

b i o c h e m i c a l s o c i e t y

TRANSACTIONS

14th International Symposium on Plant Lipids Cardiff University, Wales

Terry Galliard Medal Lecture

Fatty Acid Synthesis: From CO₂ to Functional Genomics

colloquia

Lipid Analysis

Fatty Acid Biosynthesis

Complex Lipid Biosynthesis

Lipid Catabolism

Sterols and Isoprenoids

Lipids and Signalling

Environmental Effects on Lipids

Biotechnological Aspects

■ *Biochemical Society Transactions* (ISSN 0300-5127) is published by Portland Press Ltd on behalf of the Biochemical Society. Three parts contain the lectures and colloquia presented at a meeting of the Biochemical Society or one of its constituent interest groups and, occasionally, the colloquia of other scientific meetings of biochemical interest held in the U.K. or elsewhere. These articles are available online (see <http://bst.portlandpress.com>). Three parts contain abstracts of the presentations at the Biochemical Society's meetings. Submitted primary research papers are not published and authors are reminded that detailed presentation of new experimental data may prejudice its subsequent publication in precisely that same form elsewhere. Lectures and colloquium contributions are published subject to editorial acceptance and authors will be issued with instructions on the format of their article before the meeting. Authors intending to present posters at Society meetings should contact the Meetings Office, the Biochemical Society, 59 Portland Place, London W1B 1QW, U.K. (telephone 020 7580 5530; fax 020 7637 7626; e-mail meetings@biochemistry.org).

■ For information about the advantages of membership of the Biochemical Society, contact the Executive Secretary, The Biochemical Society, 59 Portland Place, London W1B 1QW, U.K. (telephone 020 7580 5530).

■ Editorial and publishing office: *Biochemical Society Transactions*, 59 Portland Place, London W1B 1QW, U.K. (telephone 020 7637 5873; fax 020 7323 1136; e-mail editorial@portlandpress.com).

■ Royal Mail International, c/o Yellowstone International, 87 Burlews Court, Hackensack, NJ 07061, U.S.A.

Subscription rates

■ Subscriptions department: Portland Customer Services, P.O. Box 32, Commerce Way, Colchester CO2 8HP, U.K. (telephone 01206 796351; fax 01206 799331; e-mail sales@portlandpress.com). Subscription rates for volume 29, parts 1–6 (2001) paper and online:

Volume 29		North America	Rest of world	Euro price
Paper and Online	Institutional	\$325.00	£190.00	€323.00
Online only	Institutional	\$305.00	£178.00	€303.00
Paper only	Institutional	\$305.00	£185.00	€303.00
	Single issues	\$82.50	£49.45	€84.00

VAT is due on some supplies to subscribers within the U.K. and to non-registered subscribers elsewhere in the EU. If in the EU, please state your VAT number otherwise VAT may be charged at the national rate. Subscribers to the *Biochemical Journal* may take a joint subscription to that journal and to *Biochemical Society Transactions*, saving \$30 (North America), €28.50 (EU) or £17 (rest of world), or to *Biochemical Society Transactions*, *Biochemical Journal* and *Biotechnology and Applied Biochemistry*, saving \$40 (North America), €39 (EU) or £23 (rest of world). North American subscription rates include airfreight delivery, and those for Japan include Accelerated Surface Post; other overseas locations are serviced by surface mail. Air-speeded delivery is available at extra cost (please ask for details). Back issues are available.

■ All rights reserved. Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may be reproduced, stored or transmitted, in any form or by any means, only with the prior permission in writing of the publishers, or in the case of reprographic reproduction in accordance with the terms of permissions granted by the copyright clearing houses such as the Copyright Licensing Agency (U.K.) or the Copyright Clearance Center (U.S.A.). The CCC item-fee code for this publication is 0300-5127/2001/\$25.00+0.00. Inquiries concerning reproduction outside those terms should be sent to the publishers at the London address.

■ Although, at the time of going to press, the information contained in this publication is believed to be correct, neither the authors nor the publisher nor the editor assume any responsibility for any errors or omissions herein contained.

■ Display advertising is accepted; information is available on request from the London office of Portland Press.

■ Periodicals postage paid at Rahway, NJ, and at additional mailing offices.

■ Postmaster: send address changes to *Biochemical Society Transactions*, c/o Mercury International, 365 Blair Street, Avenel, NJ 07001.

■ Printed in Great Britain by the University Press, Cambridge.

- Aaroe Juhl, H.**, See Leick, V.
Abachkine, I. G.
 —; Burt, S. K.
 Theoretical investigation of enzymatic activity in DNA polymerase β : a mechanistic study, A325
- Abbasi, L.**
 —; Shervington, A.; Bdour, S.
 The utilization of the PCR for the detection of genes coding for aminoglycoside modifying enzymes in bacteria of clinical isolates from Jordan University Hospital, A191
- Abbott, A. G.**, See Powell, G. L.
Abbott, C. A.
 —; Yu, D. M. T.; Ajami, K.; McCaughan, G. W.; Gorrell, M. D.
 A novel member of the prolyl oligopeptidase family: human dipeptidyl peptidase (DPP) 8, A307
- Abdalla, E. M.**
 —; Abd El-Hamid, A. S.; Gobran, F.; Nooman, Z. M.; Hassan, A. M.
 Pancreatic fecal elastase in HCV associated liver disease, A153
 —; Leheta, O.; Atef, A.; Elsharkawy, S.
 Soluble intercellular adhesion molecule-1 and soluble L-selectin levels in children with bronchial asthma, A153
 —; Wasfi, R. M.; Abobakr, R. A.; Eyada, M. K.; El-Akhras, A. I.
 Inhibin, a putative marker of spermatogenesis, A342
- Abd Elaal, D.**
 —; Mohamed, A. O.; Ahmed, S. A. M.
 Biochemical evaluation of endemic goitre in The White Nile State, Sudan, A159
- Abdel-Aziz, A.**, See Gabal, A. A. A.
Abdel Fattah, M., See Khalifa, A.
Abd El-Hamid, A. S., See Abdalla, E. M.
Abdollahi, M., See Ostad, S. N.
Abe, K.
 —; Kaya, S.; Imagawa, T.; Shimada, A.; Taniguchi, K.
 Presence of stoichiometric amount of acid labile bound ATP preceding phosphoenzyme formation in H/K-ATPase, A191
- Abe, T.**, See Kasahara, M.
Abgar, S.
 —; Backmann, J.; Aerts, T.; Vanhoudt, J.; Clauwaert, J.
 The structural differences between bovine lens alpha-A and alpha-B crystallin, A415
- Abidi, F.**, See Booth, Z. A.; Hyde, R. J.
Abigor, R. D.
 —; Uadia, P. O.; Foglia, T. A.; Haas, M. J.; Jones, K. C.; Okpefa, E.; Obibuzor, J. U.; Bafor, M. E.
 Lipase-catalysed production of biodiesel fuel from some Nigerian lauric oils, 979
- Abobakr, R. A.**, See Abdalla, E. M.
Abo El-Saad, M. M., See Younis, H. M.
Abo-Seda, S. A., See Younis, H. M.
Abou-louz, S. K., See Hassan, M. I.
Aboul-Soud, M. A. M.
 —; Loake, G. J.
 Identification of T-DNA activation tagged systemic acquired resistance mutants in *Arabidopsis* by luciferase imaging A209
- Abraham, E. C.**
 —; Cherian-Shaw, S. M.; Shroff, N. P.
 Oligomerization and chaperone function of site-directed mutants R112C, R116C, R117C and R119C of alphaA-crystallin, A258
- Abrahmsen, L. A.**, See Nobel, C. S. I.
Abram, V., See Donko, M.
- Abram, V.**
 —; Donko, M.; Bernjak, D.
 Methyl jasmonate induced response in the leaves of *Lycopersicon esculentum* cv. Arletta, A399
- Abramson, J.**, See Byrne, B.
Abreu, R. V.
 —; Santos, D. L.; Moreno, A. J.
 The effect of carvedilol and analogue BM 910228 on oxidative stress and mitochondrial bioenergetics, A434
- Acerenza, L.**
 —; Design principles in metabolic control, A106
- Acheche, H.**, See Marzouki, N.
Adamec, J., See Gakh, O.
Adami, P., See Cypriani, B.; Nemos, C.
Adams, M. J., See Au, S. W. N.
Adati, N., See Kurose, K.
Adcock, I. M.
 —; rnes, P. J.; Ito, K.
 Mechanism of glucocorticoid action: effects on chromatin structure, A175
- Ademowo, O. G.**
 —; Sanchez, C.; Lanzer, M.
 Chloroquine accumulation in *P. falciparum*: strong evidence for a carrier mediated process, A199
- Adlerstein, D.**, See Cohen, Z.
Adrain, C.
 —; Martin, S. J.
 Finding partners for deadly proteins: dissecting the apoptosis machinery using the yeast-2-hybrid system, A28
- Aebi, M.**
 —; N-linked protein glycosylation in the endoplasmic reticulum, A123
- Aerts, T.**, See Abgar, S.
Aetopoulos, G., See Kotoula, V.
Afiifi, F.U.
 —; Taha, M. O.
 Pharmacy and the utilization of CAL and IT, A143
- Afitihile, M.**, See Hildebrand, D. F.
Aftab Rashid, K.
 —; Culture of bone marrow from patients of 'Myelodysplastic Syndrome', A455
- Agarwal, D. P.**, See Chhabra, S.; Luthra, K.
Agellon, L. B., See Shields, D. J.
Aggeli, I.-C. S.
 —; Gaitanaki, C. J.; Beis, Is.D.
 Mechanical stress activates all three MAPK subfamilies (ERKs, JNKs and p38) in the isolated perfused *Rana ridibunda* heart, A424
- Agius, L.**
 —; The role of the subcellular compartmentation of glucokinase in control of hepatic glucose metabolism, A100
- Agnihotri, A.**, See Kaushik, N.
Agostinho, M., See Broco, M.; Rodrigues, R.
Agostini, D., See Polidori, E.
Agoston, D. v.
 —; Dobi, A.
 Complexity of transcriptional control in neuropeptide gene expression: enkephalin gene regulation during neurodevelopment, 446
- Agrawal, R. K.**
 —; Linde, J.; Nierhaus, K. H.; Frank, J.
 Localization of L11 protein on the *E. coli* ribosome and elucidation of its direct role in EF-G-dependent tRNA translocation, A210
- Agurkov, A. V.**, See Nikandrov, V. N.
Aguzzi, A.
 —; Prion strains, A126
- Ahadi, M.**, See Keyhani, J.
Aherne, S. A., See O'Brien, N. M.
Ahmad, R., See Sheikh, M. A.
- Ahmed, A.**
 —; Corneal epithelial migration: up-regulation of galactose-linked glycoproteins, A454
- Ahmed, A. A.**, See Hassan, M. I.
Ahmed, K., See Guo, C.
Ahmed, S. A. M., See Abd Elaal, D.
Ahmed, Z.
 —; Smith, B. J.; Wylie, P.; Pillary, T. S.
 Role of the APS adapter protein in insulin receptor signalling, A270
- Ahn, B.-C.**, See Chang, S.-I.
Ahn, B. K., See Kang, C. D.
Ahn, K.-Y., See Hwang, I. T.
Ahn, Y., See Kim, H.
Ahn, Y. H., See Cha, J.-Y.; Moon, Y. A.
Ahonen, M., See Lyakhovich, A.
Ahringer, J.
 —; Linking the genomic sequence to embryonic patterning in *C. elegans*, A141
- Ahyayauch, H.**
 —; Bennouna, M.
 Effect of chlorpromazine on hypotonic and isotonic hemolysis, A396
- Ajami, K.**, See Abbott, C. A.
Ajami-Henriquez, D.
 —; Telles, S.; Slezzynger, T.
 Mutagenesis of *Trypanosoma cruzi* ubiquitin at amino acid 19 eliminates its recognition by chagasic sera, A254
- Ajtkhozina, N. A.**, See Ludvikova, E. K.; Slivinsky, G. G.
Ajtkhozina, N. A., See Balmukhanov, T. S.
Akagi, T., See Yamada, M.
Akaike, N., See Kanematsu, T.
Akakabe, Y., See Koeduka, T.
Akarca, U., See Aydyn, H. H.
Akbar, A. N., See Soares, M. V. D.
 —; Regulation of apoptosis and replicative senescence in CD8+ T cells from patients with viral infections, A4
- Akbarov, Z. S.**, See Shamansurova, Z. M.
Akermoun, M.
 —; Testet, E.; Cassagne, C.; Bessoule, J.-J.
 Solubilization of the plastidial lysophosphatidylcholine acyltransferase from *Allium porrum* leaves: towards plants devoid of eukaryotic plastid lipids?, 713
- Akhmaloka, A.**
 —; Pramono, H.; Suharto, A.; Retnoningrum, D.; Padmawinata, K.; Oei, B. L.
 Cloning DNA polymerase genes from thermophilic bacteria, A289
- Akhmedova, M.**, See Shamansurova, Z. M.
Akira, S.
 —; Toll-like receptors: lessons from knockout mice, A488, 551
- Akiyama, H.**, See Okunuki, H.; Sakushima, J.
Akkaya, M. S., See Büyükunal Bal, E. B.
Aksenov, N., See Lyakhovich, A.
Akufongwe, P. F., See Titanji, V. P. K.
Akutsu, H., See Sugase, K.
Alagöl, F., See Süsleyici, B.
Al-Ahmed, S. H., See Hay, D. L.
Alam, N.
 —; Rahman, M. A.
 Studies on semen and antisperm antibodies in male infertility, A230
- Al-Baloushi, K. A.**, See Tanira, M. O. M.
Al-Barwani, H. S., See Tanira, M. O. M.
Albayrak, T.
 —; Bauer, M. K. A.; Grimm, S.
 A novel expression screen to monitor apoptotic gene activities and its

- A-P axis, ventral midline tissues of, differentiation of, A139
- $\alpha\beta 1-40$, cerebral neuron signal transduction and cytotoxicity induced by, Fe^{2+} role in, A431
- ABC transporters, multidrug resistance and, A66
- ABri peptide, fibrillogenic, in familial British dementia, A76
- Abrin A, cytotoxicity and apoptosis induced by, in leukaemia cells, A379
- ACCD: *see* 1-Aminocyclopropane-1-carboxylic acid deaminase.
- ACE: *see* Angiotensin-converting enzyme(s).
- Acer, in *Drosophila*, structure determination of, A96
- Acetohydroxyacid synthase, in yeast, subunits of, A436
- Acetolactate decarboxylase, in diacetyl synthesis, A25
- Acetoxychavicol acetate, apoptosis induced by, caspase activation and polyamine levels in, A378
- Acetylation, as multifunctional modification, A62, A114
- Acetylcholine, in black scorpion venom, A437
- Acetylcholine receptors: *see also* Muscarinic acetylcholine receptors; Nicotinic acetylcholine receptors. main immunogenic region of, photoreactive analogues of, A345
- Acetylcholinesterase in cortex and striatum, after prenatal hypoxia, A345 neuroblastoma cell secretion of, cholinergic agonists and, A353
- Acetyl-CoA cytosolic, generation of, molecular biology of, 593 metabolism of, molecular biology of, 591
- Acetyl-CoA carboxylase I, manipulating expression of, in *Brassica napus* embryos, 598
- N-Acetylglucosamine, effects on free-radical metabolism, in potato, 865
- O-Acetylserine (thiol) lyase, production by transgenic tobacco plants, A262
- N-Acetyltransferase arylamine, in prokaryotes, A420 histone, in elongating form of polymerase II, A62
- N-Acetyltransferase gene, T341C mutation in, detection by RFLP, A365
- AchE: *see* Acetylcholinesterase.
- Acid phosphatase from castor bean seeds, amino acid modification and, A327 from soybean seeds, lectin and, A459
- Acidic chitinase, in *Coffea arabica* embryogenesis, A405
- Acidosis, renal tubular, anion exchanger mutants in, trafficking of, A354
- Acne, integrin expression in, A85
- Aconitase, functions of, during trypanosome life cycle, A476
- ACP desaturase, from *Brassica juncea*, A209
- Actinia equina*, equinatoxin II from, action mechanism of, A453
- α -Actinin, structural organisation of, A145
- Actinokinease, plasmid-associated synthesis of, A452
- Activator protein-1 c-Jun and c-Fos subunits of, core binding factor $\alpha 1$ interaction with, A455 Ets1 synergy with, in transactivation of IL-5 promoter, in lymphocytes, A471 lipopolysaccharide activation of, Csk overexpression and, A279
- Activator protein-2, staurosporine stimulation of, in osteoblast-like cells, A244
- Activator protein-1 promoter pathway, VEGF regulation by, A237
- Actomyosin-ADP-Pi, phosphate dissociation from, calcium regulation of, A217
- Acute phase response, and resistance to bacterial infection, A489
- Acyl carrier protein, inhibition of, 607
- Acyl hydrolase, in wheat, graminicides and, 777
- Acyl lipids, in wheat seedlings, fungal diseases and, 920
- Acyl-acyl carrier protein desaturase enzymes, from *Kochia scoparia*, 623
- Acyl-acyl carrier protein thioesterase from *Brassica*, cloning of, 967 morphological and metabolic changes in, 682
- Acyl-CoA, in regulation of carbon supply for fatty acid biosynthesis, 672
- Acyl-CoA dehydrogenase medium chain, deficiency in, A73 genetic mutation properties in, A160 in pea cotyledon tissue, during germination and initial growth, 760
- Acyl-CoA elongase, during rapeseed development, 645
- Acyl-CoA esters, detection and quantification in *Arabidopsis* seedlings and mature leaves, 575
- Acyl-CoA oxidases, in *Arabidopsis*, A8 in fatty acid breakdown, 755
- Acyl-CoA synthetase, in *Arabidopsis*, 957
- Acyl-CoA thioesterases, removal of CoA from, in *Arabidopsis*, 946
- Acyl-CoA-binding protein, in regulation of carbon supply for fatty acid biosynthesis, 672
- Acyl-CoA:cholesterol acyltransferase, in triacylglycerol accumulation in *Saccharomyces cerevisiae*, 700
- Acyl-CoA-dependent reactions, carnitine acyltransferase and, A12, 182
- Acyl-CoA:diacylglycerol acyltransferase, from *Caenorhabditis elegans*, expression in yeast, 692
- Acyl-CoA:lysophosphatidylcholine acyltransferase, from sunflower, purification and photoaffinity labelling of, 715
- Acyltransferase, *Arabidopsis*, in insect cell cultures, 687
- Adaptor protein LAT, association with protein tyrosine phosphatase CD45 and protein tyrosine kinase LCK, A428
- Adaptor protein Shc translocation, EGF-induced, in upregulation of tyrosine kinase c-Src, A432
- Adenine mononucleotide, membrane-bound isoforms of thioredoxin reductase inhibited by, A309
- Adenine- N^6 DNA methyltransferase, M.EcoRV of, molecular enzymology of, A309, A312
- Adenovirus-mediated gene transfer, of SAP-1, cell death induced by, Akt/protein kinase B in, A433
- Adenylate kinase, in tissue energy balance, A99
- Adenylyl cyclase seminal plasma activation of, in prostate epithelial cells, A384 uterine quiescence and, A281
- Adenylyl cyclase-signalling mechanism, in insulin actions, A281
- Adhesive proteins, plasmin and, A86
- Adipocyte(s), studies of, growth hormone in, A9, 126
- ADP-ribosyltransferase arginine-specific in lung, A321 in smooth muscle cells, A293 PDGF-dependent cellular proliferation and, A297
- Adrenaline, platelet-activating factor interaction with, signalling pathways in, A282
- α_1 -Adrenoceptor, in activation of MAP kinase in cardiac myocytes, A431
- β_2 -Adrenoceptor, with M_3 -muscarinic receptor, in interactive regulation of JNK and ERK signalling pathways, A426
- Adrenomedullin MAP kinase pathway activation by, in vascular smooth muscle and endothelial cells, A298 in pathogen-challenged oral epithelial cells, A231
- Adrenomedullin receptors, in Rat-2 fibroblasts, desensitisation of, A267
- Aequorin, recombinant, in *Aspergillus sqamori*, calcium signalling in, A277
- Aerobic respiratory system, of *Eikenella corrodens*, A189
- AFLP analysis, of tobacco BY2 cell cycle-modulated genes, A228
- AFT2 transcription factor, retinoblastoma protein modulation of, A244
- Agarose gel, DNA recovery from, A152
- Ageing *Blumeria graminis* conidia fatty acid content and, 875 cell senescence and, A2, 221 DNA repair and, A102, A108 effect on alteration of myofibril isoenzyme creatine kinase from heart during stress, A155 immune failure in, telomere diminution and, 241 macular degeneration and, A162 of meat, endopeptidase during, calpain and, A315 nuclear factor- κ B activation and, A170 in *Pinus sylvestris* seeds, 878 pterin levels, cell-mediated immunity, and depression in, A346 striatum monoamine release and, A304
- Agrobacterium*, in tobacco transformation, A210
- AhrC protein, from *Bacillus subtilis*, crystal structure of, A95
- AIDS virus: *see also* Human immunodeficiency virus. origins and evolution of, A24, 275
- Airway, smooth muscle in, ANP- and CNP-sensitive guanylyl cyclases in, A265
- Airway gland cells, in nasal polyp tissue, CFTR in, A351
- Akt/protein kinase B, in cell death induced by SAP-1, A433
- Alamethicin-membrane interactions, continuum solvent model calculations of, thermodynamic analysis of, A147
- β -Alanine aminotransferases, pyrimidine catabolism and, A198
- Alanine scanning, in probe of transmembrane domain 7 of muscarinic acetylcholine receptor, A268
- Albumin, recombinant, warfarin binding to, A259
- Albumin-binding protein, in *Eimeria tenella*, A476
- Alcohol, effects on proteins, SH titration in study of, A460
- Alcohol dehydrogenase lysine residue modification in, structural changes after, A87 thermophilic vs. mesophilic, A316

- Aldo-keto reductase 7, in cancer prevention, A5
- Aleurone layer, of maize kernels, phytosterols in, 803
- Alkaline phosphatase, heat lability and high catalytic efficiency of, A308
- Alkaline protease (*aprA*) gene, in *Bacillus subtilis dnaC30ts* mutant, A240
- Alkane-degrading microorganisms, from Caspian Sea, A229
- Allicin
cell cycle effects of, A369
histone acetylation by, A250
- Allium porrum* leaves,
lysophosphatidylcholine acyltransferase solubilisation from, 713
- All-*trans* retinoic acid, haptoglobin biosynthesis by, in THP-1 cells, A255
- Allyl isothiocyanate, histone acetylation by, A250
- Altitude sickness, ACE genetic polymorphism and, A230
- Alu family DNA, p68 binding to, A229
- Alveolar cells, smoking effects on Ca²⁺-dependent phospholipid-binding protein in, A349
- Alveolar epithelial cell monolayer, blood-air barrier in, protein and toxin transport across, A389
- Alzheimer's disease: *see also* Amyloid entries; Dementia; Presenilin.
apolipoprotein E in, A16, A37
familial
molecular mechanisms of, A129
presenilin-1 cleavage in, A305
FK506-binding protein in, A38
G protein binding to glutamate receptor in, A35
G protein signalling in, A17
[³H]cGMP binding in, A38
hippocampus in, left handed Z-DNA in, A454
modelling in multiple transgenic mice, A18
nicotine (-) isomer as protection against, A306
oxidative signalling and inflammatory pathways in, A17
pathogenesis of, myeloperoxidase in, A306
presenilin function in, A16
protein processing from angiotensin-converting enzyme to, 441
ryanodine receptor calcium release channels in, A18
 β -secretase protein in, A84
soluble β -catenin level in, A35
soluble neuronal nitric oxide synthase in, A36
 α -synuclein in, A33
tau protein in, A15, A37
aggregation pathway of, A108
X11 and Fe65 proteins in, A37
- Amaranthus cruentus*, phosphoglycerate kinase from, A311
- Amethopterin, leukaemia cells resistant to, cellular folate/folate enzyme levels and, A200
- Amidated gastrins, effect on gastric epithelial cells, A294
- Amino acids
aromatic, interactions between, in yeast Gal2, A391
hydrophilic, evolutionary study of, A186
insulin secretion induced by, A196
mass spectrometric sequencing of, integration of biomolecular interaction analysis with, A262
and metabolites, in serum/urine in cerebral dysfunction and epilepsy, A158
non-protein, inhibition of serine hydroxymethyltransferase activity in embryo neural tube defect by, A438
- Aminoacylase
assay of, A319
thermostable, from *Thermococcus litoralis*, A78
- 4-Aminobutyrate aminotransferase, in liver and brain, A420
- γ -Aminobutyric acid (GABA) receptor, signalling in hippocampal neurons, p130 in, A358
- 1-Aminocyclopropane-1-carboxylic acid deaminase (ACCD), from *Hansenula saturnus*, resolution structure of, A423
- Aminoglycoside-modifying enzymes, in bacteria, PCR in detection of, A191
- 8-Amino-7-oxononanoate synthase, hyperthermostable, A316
- Aminopeptidase A
blood pressure and, A60
in central control of arterial blood pressure, 434
structure and function of, A81, A82
- Aminopeptidase P
cloning and characterisation of, A309
human cytosolic, A84
from *Thermotoga maritima*, A320
- AML1 gene
cells expressing, other genes over- and underexpressed in, A235
overexpression of, histone deacetylase inhibitor effect on, A221
- Ammonium transport proteins
membrane topology of, A393
Mep/Amt family of, membrane topology of, A94
- AMPA receptors, Fab antibody for analysis and isolation of, A394
- 5'-AMP-activated protein kinase, in Ras/Raf/ERK pathway, A429
- AMP-binding protein gene family, in *Arabidopsis*, 955
- Amphibian genes
coding antimicrobial peptides in insects, A444
coding for antimicrobial peptides in insect cells, A256
- 1b-AMP1, against *Candida albicans*, A206
- α -Amylases
from *Bacillus stearothermophilus*, crystal structure of, A423
mesophilic and thermophilic, proteolysis of, A418
- Amyloid, tau tangles and, A128
- Amyloid A activating factor, protein kinase A and, A242
- Amyloid fibril inhibitors, structure and function of, A51
- β -Amyloid peptide: *see also* Alzheimer's disease.
aggregation of
fluorescence anisotropy of, A303
inhibition by benzofuran derivatives, A307
apolipoprotein E and, A16
direct quantitation of, A32
fibrillar, total protein expression after treatment with, A37
inhibition of toxicity in, *N*-methylated derivatives in, A72
production and fibrillisation of, A14
RAGE as signal transduction receptor for, A14
 β -secretase in, A84
 γ -secretase in, A34
- Amyloid peptide, non- β , toxicity of, A34
- Amyloid precursor protein
ACE secretase similarity to, A306
cysteine-rich domain of, structure of, A87
heparin binding domain of, crystal structure of, A447
- IL-6 induction of, A32
muscarine regulation of, in neuroblastoma cells, A33
neuronal signalling and, apoptosis and excitotoxicity promoted by, A17
PAK3 interaction with, neuronal apoptosis and, A14
processing of
mechanisms in, A60
posttranslational modifications in, A14
 γ -secretase processing of, prolylendopeptidase inhibition and, A33
tau phosphorylation and, A36
- Amyloidogenic peptide aggregation, nicotine isomers and, A306
- Amyloidosis, protein folding and, A50
- Amyloidotic polyneuropathy, familial, transthyretin stability in, A412
- Amyloid-type fibrillation, of all-alpha protein myoglobin, A408
- Anaemia
chronic haemolytic, glucose-6-phosphate dehydrogenase gene mutation in, expression in *Saccharomyces cerevisiae*, A300
Fanconi, functional pathway in, A167
- Anaphase-promoting complex, in tetratricopeptide proteins, cloning and expression of, A172
- Anaphylaxis, active systemic, in mast cell deficiency, A257
- Ance, in *Drosophila*, structure determination of, A96
- Androgen receptors
interaction with RAP74, A88
nuclear proteins interacting with, A64, 401
- Angiogenesis
collagen-derived inhibitors of, A108
VEGF and receptors in, A138
- Angiogenin, interaction with plasminogen kringle 1-3, in *Escherichia coli*, A294
- Angiotensin II, ERK-1/2 activation by, A80
- Angiotensin-converting enzyme(s) (ACEs)
buffer systems on, A318
in *Drosophila*, A82
ectodomain of, secretase cleavage and, A262
genetic polymorphism in, high altitude physical performance and, A230
human homologue of, A322
juxtamembrane stalk of, secretase cleavage susceptibility and, A80
processing mechanisms in, A60
processing to Alzheimer's disease, 441
zinc metalloprotease homology to, A81
- Angiotensin-converting enzyme (ACE) inhibitors, peptidomimics as, A205
- Angiotensin-converting enzyme secretase, amyloid precursor protein α -secretase similarity to, A306
- Anhydrotic ectodermal dysplasia, *EDA* gene expression in, LEF-1 transcription factor and, A462
- Animal feed, phytic acid stabilising effect on phytase in, A42
- Anion channel, voltage-dependent, calcium binding and translocation by, A390
- Anion exchanger mutants, in renal tubular acidosis, trafficking of, A354
- Anion-translocating ATPase, structure-function relationships in, 520
- Annexin
lysosomal targeting and degradation of, A349
relocation in osteosarcoma cells, A296
- Anoxia, plant cell death induced by, A373

- Anthrolycholine, butyrylcholinesterase interaction with, A204
- Antiamoebin 1, solution NMR studies of, A87
- Antibiotics
DNA-encoded resistance to, in plant cells, A208
produced by modular polyketide synthases, A130
spectrum and sensitivity against *Staphylococcus* spp., cadmium ion resistance and, A198
- Antibody(ies)
maturation pathway for, CDR-H3 conformation and, A255
molecular stability and function of, glycosylation and, A256
- Antibody sFv fragment, specific for blood group A, A337
- Antigen receptor function, plasma membrane compartmentation in, IL-12 and, A254
- Antigen-presenting cell defect, protein kinase C δ localisation in small intestine in, cyclooxygenase inhibitors and, A432
- Antimalarial drugs, malaria parasite haemoglobin catabolism and heme detoxification systems as targets in, A437
- Antimicrobial peptides, in insect cells, amphibian genes coding for, A256
- Anti-obesity peptides, from GH, A421
- Antioxidants
aromatase regulation by, A334
aspirin impairment of, A202
caeruloplasmin as, A321
in cancer prevention, A5
in cisplatin-induced acute renal failure, A200
GST induction by, in chemoprevention, 33
in lipoxygenase-catalysed carotenoid degradation from tomato, 839
mucosal, in ulcerative colitis, A311
nickel sulphate-induced mutation in, lipid peroxidation and, A459
plasma levels of, in premature infants, A154
prion protein as, A304, A348
- Antipeptide antibody AC G21V, raised against serotonin receptor, agonist-like effects of, A254
- Antisperm antibodies, in male infertility, A230
- AOD9604 anti-obesity compound, action of, proteomics and, A261
- Aorta
lipids in, shark liver oil dietary supplementation and, A343
lipoxygenase-dependent contraction in, cyclooxygenase inhibition and, A326
- AP: see Activator protein entries.
- APC defect: see Antigen-presenting cell defect.
- APG5, as apoptosis-specific protein, A373
- Aphidicolin resistance, in hamster PCNA, A252
- Apical iron uptake, hereditary haemochromatosis protein and, A160
- Apicoplast, in *Plasmodium* genome, A473
- Apolipoprotein(s), polymorphisms in, North India, A299
- Apolipoprotein B
genetic polymorphism of, PCR of, A153
oxidation of, in coronary artery disease, A94
- Apolipoprotein E
in Alzheimer's disease, A16, A37
in CAD patients, A302
- Apolipoprotein H, conformational change of, in membrane interaction with, A424
- Apolipoprotein(a) gene polymorphisms, in essential hypertension, A158
- Apoptosis
acetoxychavicol acetate-induced, caspase activation and polyamine levels in, A378
animal models of, A12
Bcl-2 and, A98
BH3 domain in, A13, A375, 51
in cells relying on oxidative phosphorylation, A372
bFGF as survival factor from, A445
of Burkitt lymphoma cells, L-type Ca²⁺ channel antagonists in, A375
calphostin C-induced, poly(ADP-ribose)polymerase in, A383
of cardiac myocyte, p21CIP1 and p27KIP1 in, A367
carnitine and, A441
caspase-3-independent, seminal plasma induction of, in prostate epithelial cells, A384
as chemopreventive agent target, A6
complement deficiency and, A488
cytochrome c release in, A12
diabetic patient serum effect on, A27
drug-induced, of prostate cancer cells, protein kinase CK2 protection against, A371
DWNN and, A230, A382
effects on β -amyloid precursor protein and presenilin on, A17
endoplasmic reticulum pathway in, caspase-12 and, A139
of endothelial cells, nitric oxide in, A376
of epithelial cells, c-Myc to p53 ratio and, A29
execution of, biochemical mechanisms of, A139
FAS-mediated, CD28 regulation of IGF-1 receptor in, A29
fenretinide induction of, A92
focal adhesion kinase inhibition of, A383
in foetal membrane chorion laeve tissues, at normal parturition time, A381
in hepatocytes, induced by ischaemia and reperfusion, A371
of hepatoma cell, perfluorooctanoic acid-induced, A450
Hsp70 inhibition of, downstream of cytochrome c, A378
hydrogen peroxide-induced damage of cytochrome c as trigger of, A449
induced by SAP-1, Akt/protein kinase B in, A433
induction by chemopreventive selenium compounds, A221
of leukaemia cells
abrin A-induced, A379
hydroquinone-induced, caspases in, A447
polyphenol induction of, A380
RGD-containing peptide induction of, caspase-3 activation in, A445
lung cell proliferation and death controlled by, in normal lungs, A371
of lymphocytes, sphingolipid signalling and oxygen production in, A359
of lymphoid cells, melatonin and, A374
of macrophages, Bacille Calmette-Guérin infection and, A232
of melanoma cells, induced by low positive temperature and photosensibilisator in, A377
mitochondria and, A11, 170
mitochondrial signalling pathway in, GSH extrusion and, 56
- of monocyte, TPCK-sensitive enzyme in, A378
- neuronal, β -amyloid precursor protein and PAK3 interaction in, A14
- of neuronal cells, prion peptide stimulation of, A27
- of neurons, phosphatidylinositol 3-kinase-mediated, protection against by glycogen synthase kinase-3 inhibitors, A427
- of neutrophils, *Pseudomonas* toxins and, A384
- nitric oxide inhibition of, in gastric mucosa, A375
- nuclear factor- κ B binding by hsp70 during, A380
- nuclear protein phosphorylation in, A383
- odds and ends regarding, A13
- photodynamic therapy-induced, nitric oxide inhibition of, A374
- in prostate cancer, A381
and pyknosis chromatin structure, A373
- of renal tubular epithelial cells, oxalate-induced, A377
- sphingomyelin hydrolysis to ceramide during, A396
- of spleen lymphocytes, calcium and phospholipid signalling in, A378
- survival signal suppression of, A13, 47
of T cells
cDNA clones associated with, A376
hydroquinone-induced, caspases in, A447
targeting of mitochondrial proteins in, A127
- thyroid hormone-induced, polyubiquitin gene polymorphism and, A237
- TNF-mediated, calcium regulation and, A28
- α -tocopheryl succinate-induced, A375
- of tumour cells
Chelidonium majus lectin in, A374
stress proteins and, A27
using antisense oligonucleotides to Bcl-2, A242
tyrosine phosphorylation of cytosolic and nuclear proteins during, A379
- ultraviolet light-induced, arsenite-downregulated caveolin-s and, A373
- in viral infection, 255
- virus-induced, in pheochromocytoma cells, A374
- Apoptosis-specific protein, APG5 as, cloning of, A373
- Apoptotic DNase gamma, activation mechanism of, A384
- Apoptotic genes
monitoring activities of, A371
screening for, A382
- Apoptotic protease activating factor, caspase cascade activation by, A28
- APS adapter protein, in insulin receptor signalling, A270
- Aquabirnavirus, Bcl-2 from, apoptosis and, A375
- Aquaporin genes, toxins and, A171
- Aquilegia vulgaris*, desaturase in, 641
- Arabidopsis*
acyl-CoA oxidases, A8
acyl-CoA oxidases in, in fatty acid breakdown, 755
acyl-CoA synthetase in, 957
acyltransferase from, in insect cell cultures, 687
- AMP-binding protein gene family in, 955
- FAE1* gene from, to improve erucic acid and oil content of rapeseed, 935
- formin homologue of, A208
- genome-wide expression analysis in, A112

- GPI-anchored proteins in, metabolism of, 725
- hydroxy fatty acid production in, 947
- jasmonate-responsive genes of, 863
- L23A protein in, complementation of yeast L25 mutant by, A211
- lipase activity in, 773
- in leaf senescence, 775
- lipid mobilisation disruption in, 762
- meiotic mutant of, A209
- PEX10 protein from, A79
- PEX14 protein from, A79
- phosphate-deprived, phosphatidylcholine replacement by digalactosyldiacylglycerol in, 729
- plant uncoupling mitochondrial protein from, expressed in *Escherichia coli*, A187
- quantitative trait loci analysis of, A210
- removal of CoA from acyl-CoA thioesterases in, 946
- seed germination in, expression of AtMFP2 and fatty acid β -oxidation genes in, 95
- seedlings and mature leaves of, acyl-CoA ester detection and quantification in, 575
- serine palmitoyltransferase cloning and characterisation in, 745
- sphingolipid long-chain base kinase in, 747
- stress response of, phospholipase D in, 813
- systemic acquired resistance in, A209
- wax-specific condensing enzyme in, 651
- Arabinosidase, from germinated wheat, A402
- Arachidonic acid
- elongation enzymes specific for, 658
- metabolism of, nitric oxide production and, in platelet membranes of coronary artery disease patients, A162
- Arachis hypogaea*, oleoyl-phosphatidylcholine desaturase, 625
- Archaea, from solfatara hot springs, in Turkey, A180
- Archaeoglobus fulgidus*, inorganic pyrophosphatase from, A317
- Archeal tRNA, peptides related to, A252
- Argali, chromosomal complements and nuclear DNA polymorphism in, A183
- Arginine dibasic convertase promoter, regulatory sequences in, A83
- Arginine-specific ADP-ribosyltransferase in lung, A321
- in smooth muscle cells, A293
- ArgR, hyperthermophilic microorganism transcription regulation mediated by, A242
- Aromatase, regulation by antioxidants, glucocorticoids, and unsteroid oestrogens, A334
- Aromatic amino acids, interactions between, in yeast Gal2, A391
- ArsAB ATPase, anion-translocating, from *Escherichia coli*, A66
- Arsenite, caveolin-s downregulated by, and ultraviolet light-induced apoptosis, A373
- Arterial blood pressure, central control of, aminopeptidase A in, 434
- Arylamine *N*-acetyltransferase mycobacterial, polymorphism of, A323
- N*-acetylation activity and, in domestic cattle, A43
- structure of, A74
- tissue-specific, A200
- Arylamine *N*-acetyltransferase-like sequences, in prokaryotes, A420
- 2-Aryl-propionic acids, DNA damage photosensitised by, A24
- Ascorbyl fatty acid esters, lipase-catalysed synthesis of, A323
- Aspartate, in testis, A342
- Aspartate transport, free fatty acid structure-activity and, A38
- Aspartic proteinase zymogens, inactivation in, A441
- Aspartyl proteinase in Alzheimer's disease, A84
- GPI-anchored, from *Eimeria*, A481
- Aspergillus nidulans*
- methionine synthase genetic mutations in, pleiotropic effects of, A194
- tubulins in, A218
- Aspergillus niger*, morphology of, protein kinase A and, A425, A457
- Aspergillus* spp., extracellular phytase from, A42
- Aspergillus squamori*, recombinant aquorin in, calcium signalling in, A277
- Aspirin, antioxidant system impairment by, A202
- Asthma
- in children, soluble ICAM-1 and soluble L-selectin in, A153
- gene-environment interaction in, A105
- Astrocytes, nitric-oxide synthase expression and nuclear factor- κ B activation in, p21Ras and, A381
- Astrocytic vs. neuronal differentiation, transcription factors in, A293
- Astrocytoma cells, reduced glutathione release and preservation by, A92
- Ataxia-telangiectase, ATM protein in, signalling by, A107
- Atherosclerosis
- pathogenesis of, myeloperoxidase in, A306
- serum soluble hsp60 level in, A233
- Atlantic salmon, expressed genes from, A171
- ATM protein, signalling by, A107
- Atmosphere, oxygen in, sunflower microsomal oleate desaturase and, 890
- Atmospheric pressure, lipid and fatty acid composition and, in tobacco chloroplasts, 885
- Atomic force microscopy
- biological, progress in, A132
- in protein unfolding, A69
- Atomic resolution, protein folding at, A52
- ATP
- acid-labile bound, before phosphoenzyme formation in H/K-ATPase, A191
- chromatin remodelling dependent on, A62, 376
- Mg²⁺- and Ca²⁺-dependent, in brain, A39
- phosphoenolpyruvate carboxykinases dependent on, modelling and analysis of, A442
- regulation of proton transfer through CF₀CF₁, by, under photophosphorylation, A190
- ATP catalysis, by protein translocase machine, A116
- ATP citrate lyase, in formation of oxaloacetate and acetyl-CoA, 593
- ATP hydrolysis, in DNA repeat realignment by RecA-motor, A168
- ATP sulphurylase, from *Penicillium chrysogenum*, amino acid replacements in, A320
- ATP synthase: see also F₀F₁ ATP synthase.
- intrinsic cations of, A188
- mitochondrial, proton-translocating portion of, A191
- ATP synthesis
- rotary mechanism of, A1
- rotary mechanisms of, A97
- ATP transfer, network for, A99
- ATPase, anion-translocating, structure-function relationships in, 520
- ATP-binding cassette transporters, in multidrug resistance of cancer, A143
- ATP-citrate lyase promoter, transactivation potency of, SREBP binding preference and, A178
- ATP-dependent protease Lon, from *Escherichia coli*, A317
- Atrial natriuretic peptide, mini, receptor-bound conformation of, A207
- Atrophy of multiple systems, α -synuclein in, A33
- Attenuated total reflection (ATR)/FTIR spectroscopy, of membrane proteins, A187
- Aureobasidium pullulans*, halophily in, A470
- Autistic disorder, chromosomal breakpoint region in, A303
- Autoimmune disease, antibodies in blood in, substrate specificity of, A257
- Autoimmune glomerulonephritis, pathogenesis of, myeloperoxidase in, A306
- Autoimmunity, complement deficiency and, A488
- Auxin, in tobacco cell growth cycle, A408
- Auxin molecules, quantitative structure-activity relationships for, A408
- Auxin transport, in developing plants, A57, 481
- Azaspiracid, bioanalytical detection of, A46
- Azide, interaction with KCN-cytochrome *d* complex in *Salmonella typhimurium*, A189
- Azobenzene-based cross-linker, in protein-protein interactions, A146
- B2 base recognition site, of RNase Rh, A262
- B10 hypothalamic protein, circadian clock-related protein Per1 interaction with, A278
- B cell
- development of, immunoglobulins and, A487
- differentiation of, innate immunity and regulation of, A487
- serum-induced dysfunction of, A274
- B cell chronic lymphocytic leukaemia, cell cycle genes in, A301, A368
- Baboons, as experimental animals for human infectious disease, A235
- Bacille Calmette-Guérin infection, macrophage apoptosis and, A232
- Bacillus brevis* expression and secretion system, protein disulphide isomerase as gene fusion partner in, A215
- Bacillus cereus*, sphingomyelinase from, structure, function, and membrane binding mode of, A334
- Bacillus* spp.
- phosphate starvation-inducible genes for, A238
- restriction endonucleases of, A181
- ribonucleases secreted from, A244
- Bacillus stearothermophilus*
- α -amylase from, crystal structure of, A423
- glycerol oxidation to dihydroxyacetone in, A331
- Bacillus subtilis*
- AhrC protein from, crystal structure of, A95
- Bmr(His)₆ multidrug efflux protein from, expression in *Escherichia coli*, A88
- dnaC30ts* mutant of, alkaline protease (*aprA*) gene in, A240
- inorganic pyrophosphatase activity of, A313

- multidrug efflux protein from, A65
structure and function of, A422
- Bacillus thuringiensis*
Cry4A bioinsecticide produced by, A440
insecticidal crystal proteins of, membrane binding of, A438
- Bacteria**
aminoglycoside-modifying enzymes in, PCR in detection of, A191
blight from, rice resistance to, A291
DNA gyrase genes in, A288
infection from, resistance to, acute phase response and, A489
killed by gastric juice, A385
membranes of, penetrant antibacterial agents for, A394
pathogenic, drugs against, non-mevalonate isoprenoid biosynthesis as test system for, 796
photosynthetic, cytoplasmic pyrophosphatases of, effect of phosphoglyceric acid on, A192
from solfataric hot springs, in Turkey, A180
survival of, ion transport and, dimethyl sulphoxide effects on, A194
Tat protein of, export pathway of, A58
- Bacterial peptide deformylase, hydroxyamic acid derivative inhibition of, A90
- Bacterial proteome analysis, of *Listeria monocytogenes* in transition from exponential to stationary phase, A183
- Bacterial toxins, against parasitic nematodes, A151
- Bacteriophage MB78, restriction-modification system in, A171
- Bacteriophage Mu, mom gene of, intrinsic and protein-induced DNA distortion and, A441
- Bacteriophage T7 endonuclease I, crystal structure of, A96
- Bacteriorhodopsin, folding of, effect of loop residue replacement by structure-less linkers on, A408
- Baculovirus, recombinant α B-crystallin expression by, heat-shock protection and, A73
- Bak, cell cycle arrest induced by, p27KIP1 and, A368
- Bamboo shoots, sucrose synthase from, A403
- Band 3 protein degradation, to inhibit red blood cell invasion by *Plasmodium falciparum*, A217
- Barley**
germinating grain of, peptide transport in, A79
peptide transporter HvPTR1 in, role in germination and grain filling, A407
resistance to *Puccinia hordei* in, genetic mapping of, A209
- Barley leaves
formation of 4-hydroxy-2-alkenals in, 850
sorbitol treatment of, oxylipins in, 861
- Barotolerant *Pseudomonas* spp., inner membrane lipids in, A397
- Basal cell carcinoma, multiple cutaneous, GST and CYP and, A4
- Basophilic leukaemia cells, syntaxin-3 and VAMP-7 in, A398
- Baubinia variegata*, proteinase inhibitor from, A416
- Bcl-2**
antisense oligonucleotides to, apoptosis of tumor cells using, A242
apoptosis regulation by, A98
BH3 domain in, A13, A375, 51
ERK-1/2 activation by, protein kinase C in, A456
- pro-apoptotic effects of, in cells relying on oxidative phosphorylation, A372
- BCODH: see Branched chain 2-oxo acid dehydrogenase kinase.
- Beauveria bassiana*, lectins from, A40
- Beer, sorghum phenolic compound changes during fermentation, A290
- Benzalkonium, as bacterial membrane penetrant, A394
- Benzocaine, lipid membrane interaction with, A203
- Benzofuran derivatives, in inhibition of β -amyloid peptide aggregation, A307
- Benzopyrene, cells treated with, gene expression patterns in, A435
- Berberine, as bacterial membrane penetrant, A394
- Betaglycan
ligand binding domains of, A266
soluble, as antagonist of TGF- β , A339
- Betaine metabolism, in health and disease, A155
- Betaine metabolites, measurement of, A364
- bFGF: see Fibroblast growth factor, basic.
- Bile acid transport protein, ileal active, structure-function of, A42
- Bilirubin, CYP1A1 expression and, under ultrasound action, A239
- Biodiesel fuel production, from lauric oil, lipase-catalysed, 979
- bioH* gene overexpression, in *Escherichia coli*, A333
- BiOiB database, in teaching biochemistry and molecular biology, A144
- Bioinformatics**
cellular, A149
sequence and structure database for, A92
teaching of, A66, A67
- Biological compounds, small, conformational space of, A412
- Biological matrices, electrode fouling in, reduction of by electrochemically grown polymers on metallised electrodes, 89
- Biological systems, genomic analysis of, A122
- Biomaterials, in tissue engineering, A54
- Biomolecules**
detection of, two-photon fluorescence excitation in, A21, 70
mass spectrometric interaction analysis of, in amino acid sequencing, A262
- Biosensors**
based on electrogenerated chemiluminescence of Ru(bpy)₃²⁺, A45
in cellobiose oxidation by cellobiose dehydrogenase, 63
to detect lysine in food, A44
to detect pathogens in dairy products, A44
to detect shellfish contaminated with dinoflagellate toxins, A44
development of, direct electron transfer catalysed by enzymes in, A21, 74
direct electron transfer catalysed by enzymes in, 84
double-stranded DNA liquid-crystalline dispersions as, 77
in environmental analysis, 81
history and future of, A20
myocyte-based, A43
phosphorescent porphyrin probes in, A21, 74
rapid antibody, for environmental analysis, A22
two-photon fluorescence excitation as, in biomolecule detection, 70
- Biotechnological methods**
in acyl-acyl carrier protein thioesterase cloning from *Brassica*, 967
AMP-binding protein gene family in *Arabidopsis*, 955
anaerobic lipoygenase activity from *Chlorella pyrenoidosa*, 950
in *Arabidopsis* acyl-CoA synthetase, 957
Arabidopsis and yeast genes to improve erucic acid and oil content of rapeseed, 935
in castor oil biosynthesis, 972
co-suppression of endogenous desaturases as, in high-oleic acid *Brassica* species, 938
in cross-reactivity between porcine pancreatic and rapeseed lipases, 974
enhancement of seed oil content by glycerol-3-phosphate acyltransferase genes, 958
in extraction, effect on olive oil quality and stability, 929
fatty acid biosynthesis in *Moritella marina* as, 943
Hydroxy fatty acid production in *Arabidopsis* seeds as, 947
inhibition of polyunsaturated fatty acid accumulation as, in plants with fatty acid epoxygenase, 940
inverted-repeat DNA as, 925, 927
in *Limnanthes douglasii* erucic acid-specific lysophosphatidic acid acyltransferase activity, in oilseed rape, 964
in lipase-catalysed production of biodiesel fuel from lauric oils, 979
in mutagenesis of plastidial lysophosphatidic acid acyltransferase, 961
in papaya lipase with distinct acyl and alkyl specificity, 977
removal of CoA from acyl-CoA thioesterases, in *Arabidopsis*, 946
in transgenic oil palm production and projection, 969
- Biotin carboxyl carrier protein, isoforms of, in Brassicaceae oilseeds, 595
- Biotin synthase, iron-sulphur cluster interconversions in, A471
- Black porgy, Copper/zinc-superoxide dismutase from, A215
- Black yeast, halophilic in, A436, A470
- Bladder, histamine-induced Ca²⁺ release in, A281
- Bladder cancer**
EGF and its receptors in, A218
p21WAF1/CIP1 in, schistosomiasis and, A368
schistosomiasis-associated, deletion of p15 and p16 genes in, A221
TGF- β in regulation of granulocyte macrophage colony-stimulating factor gene in, A341
- Blastocladiella emersonii*, calmodulin gene in, A237
- Bleomycin, K-ras oncogene changes induced by, in retina, A238
- Blight, bacterial, rice resistance to, A291
- Blood group A, antibody sFv fragment specific for, A337
- Blood pressure**
aminopeptidase A and, A60
arterial, central control of, aminopeptidase A in, 434
- Blood-air barrier, in cultured alveolar epithelial cell monolayer, protein and toxin transport across, A389
- Blumeria graminis* conidia, fatty acid content of, ageing and, 875
- BM 910228, effect on oxidative stress and mitochondrial bioenergetics, A434
- Bmr(His)₆, multidrug efflux protein, in *Escherichia coli*, A88
- Body weight, leptin and, A104

- Bone cells, glutamate receptors in, A390, A391
- Bone marrow
in myelodysplastic syndrome, A455
stem cells from, in extracellular matrix and central nervous system repair, 341
- Bone morphogenetic protein
in extracellular matrix, 345
inductive activity of, 362
- Bone repair, extracellular matrix and growth factors in, A56
- Bone resorption, by intramolecular domains, caldecrin suppression of, A322
- Boophilus microplus* Bm86 locus, sequence variations in, immunoprotection and, A201
- Borage Δ^6 fatty acid desaturase, mutagenesis of, 636
- Borrelia burgdorferi*, linear plasmids of, A102
- Bothropstoxin-A, mutagenesis in, A395
- Bovine pancreatic trypsin inhibitor (BPTI)
destabilisation of, A458
 β -hairpin as folding initiation site in, A414
mutants of, in inhibition of coagulation system serine proteinases, A459
- BPTI: see Bovine pancreatic trypsin inhibitor.
- Brain
in Alzheimer's disease: see Alzheimer's disease.
4-aminobutyrate aminotransferase in, A420
developing, tissue kallikrein in neuronal nuclei of, A312
dystrophin-glycoprotein complex in, A31
endothelin-converting enzyme-1 in, A81
ischaemia of, survival and death-promoting signals after, A434
lactate and glutamate in, dichloroacetate effect on, in cerebral malaria, A455
Mg²⁺- and Ca²⁺-dependent ATPase from, A39
Na⁺ channels in, modulation by receptor protein tyrosine phosphatase, A437
neonatal, NMR studies of, A9, 121
neurons of
calyculin-binding protein in, A443
Na,K-ATPase association with cytoskeletal protein in, A395
Sp1 development in, after in utero exposure to dioxin, A345
synaptosomes of
L-[³⁵S]-cystine transport in, A38
sphingosylphosphorylcholine-induced intracellular calcium release in, A278
- Brain patterning, genetic analysis of, A138
- Branched chain 2-oxo acid dehydrogenase kinase, mitochondrial, estradiol regulation of, A196
- Branched-chain α -ketoacid dehydrogenase, from mitochondria, structure and function of, A424
- Branching morphogenesis, of breast cancer cells, induced by retinoid and heregulin synergy, A455
- Brassica*
diacylglycerol acyltransferase of, 684
fatty acid composition in, 581
Brassica juncea, ACP desaturase from, A209
Brassica napus
early germination of, lipoxygenases in, 832
embryos of
fatty acid breakdown in, 753
manipulating expression of acetyl-CoA carboxylase I in, 598
maturing and germinating seeds of, phospholipases D and C in, 817
Brassica oleracea, early floral development in, molecular genetic regulation of, A243
Brassica rapa flowers, extra stamen phenotype in, A208
Brassica spp., with high oleic acid content, co-suppression of endogenous desaturases in, 938
Brassicaceae oilseeds
biotin carboxyl carrier protein isoforms in, 595
plastidial transporters in, for fatty acid synthesis, 665
BRC1
in breast cancer
immunohistochemical analysis of, A219
mutations in, A224
in ovarian cancer, mutations in, A224
Breast cancer
BRC1 gene in
immunohistochemical analysis of, A219
mutations of, A224
environmental oestrogens and, A435
laminin receptors in, A24
lipid abnormalities and cachexia in, TNF- α and, A222
plasminogen activator inhibitor I gene polymorphism in, A226
protein LIV-1 in, functions of, A223
telomerase activity and tissue polypeptide-specific antigen in, A222
Breast cancer cells
branching morphogenesis in, induced by retinoid and heregulin synergy, A455
CD63 protein regulation in, A225
glutaminase pseudogene in, A184
oestrogenic action of parabens on, A341
Breast cancer protein LIV-1, control by intracellular zinc, A394
Breast milk, human,
imidazolopyrroloquinoline in, A339
British dementia, familial, fibrillogenic ABri peptide in, conformation and toxicity of, A305
Bronchial asthma, in children, soluble ICAM-1 and soluble L-selectin in, A153
Brown marine alga, lipids in, temperature and, 894
Bruton's tyrosine kinase, PH domain of, mutations in, A428
Bryophytes, lipid metabolism in, copper and lead effect on, 910
Bryothamnium triquetrum aqueous extracts, neuroprotective effects of, A344
Btg proteins, in transcription regulation, A288
Buckwheat, metallothionein in, A401
Buffalo, evolution of α -globin genes in, A186
Bukatoxin, three-dimensional structure of, A207
BUNDLE program, molecular model of rhodopsin-retinal complex using, A448
Burkholderia cepacia, Chd1 from, expression of in *Escherichia coli*, A151
Burkholderia pseudomallei, signal transduction in, genes involved in, A282
Burkitt lymphoma cells, apoptosis of, L-type Ca²⁺ channel antagonists in, A375
Burn, gullet chemical, connective tissue metabolism after, A159
Butanethiol, histone acetylation by, A250
tert-Butyl hydroperoxide-induced lipid signalling, phospholipases A₂, C, and D in, in hepatocytes, A282
Butylated hydroxyanisole, GST induction by, in chemoprevention, 33
Butyltin, in inhibition of cytotoxic function of natural killer cells, A440
Butyrate
cancer cells resistant to, cell cycle in, A370
in restitution of colonic mucosal barrier function after injury or inflammation, A360
Butyrylcholinesterase, anthrolycholine interaction with, A204
C1 inhibitor
glycosylation of, A336
MBL-MASPs regulation by, A492
C1q, phospholipid interaction with, A491
C2 complement component, purification of, A490
C₂-ceramide
resistance to, Jak/Stat signalling in, A358
synthesis of, cysteine in, A356
C₄ phosphoenolpyruvate carboxylase phosphorylation cascade, light-dependent, phosphoinositide pathway in, in *Digitaria sanguinalis* protoplasts, 821
C₄ plant *Amaranthus cruentus*, phosphoglycerate kinase from, A311
CAAT/enhancer-binding protein, in control of glutamine synthetase gene transcription, A235
Cachexia, in breast cancer patients, TNF- α and, A222
CAD patients, apolipoprotein E and lipid profile in, A302
Cadherins, desmosomal, protein-protein interactions of, A399
Cadmium
cytochrome biosynthesis and, in *Paracoccus denitrificans*, A435
lipid composition and, in pepper, 907
mitogenesis induced by, in macrophages, inositol trisphosphate and, A269
and stress-specific proteins in rice seedlings, A468
Cadmium ion resistance, effect on antibiotic spectrum and sensitivity against *Staphylococcus* spp., A198
Caenorhabditis elegans
acyl-CoA:diacylglycerol acyltransferase cDNA from, expression in yeast, 692
calcium channel proteins in, A392
centaurins of, as phosphatidylinositol trisphosphate receptors, A358
cyclin A gene in, A369
embryonic patterning in, genomic sequence and, A141
endothelin-converting enzyme in, A82
inositol trisphosphate receptor gene in, A177
neprilysin in, A82
neuropeptide and peptidase functions of, A61
nucleoside transporter biological roles in, A93
polyunsaturated fatty acid elongation component from, 661
predicted open reading frame of, A182
RNA interference and transposon silencing in, A122
structural genomics for, A228
in study of neuropeptide and peptidase functions, 464

- Caeruloplasmin, antioxidant function of, A321
- Calcitonin gene-related peptide binding in cultured cells, calcitonin receptor-like receptor and RAMP levels in, A272
- MAP kinase pathway activation by, in vascular smooth muscle and endothelial cells, A298
- Calcitonin gene-related peptide receptors complexes with, RAMP-1 as accessory molecule in, A202
- RAMP1-GST fusion protein in study of, A265
- Calcium binding and translocation by voltage-dependent anion channel, A390
- concentration of dependence of Mg^{2+} -dependent binding of collagen by integrin on, in platelets, A85
- mitochondria nitric oxide functions and, A449
- intracellular cisplatin resistance and, in lung adenocarcinoma, A454
- and TNF-mediated apoptosis, A28
- intracellular mobilisation of, in plants, phytase and, A405
- phospholipid-binding protein dependent on, smoking effects on in alveolar cells, A349
- in phytohormone transduction, A450
- in regulation of phosphate dissociation from actomyosin-ADP-Pi, A217
- in saliva, citrate complexation by, A45
- signalling by, in stomatal guard cells, 476
- in spleen lymphocyte apoptosis, A378
- Calcium channel L-type antagonists of, in Burkitt lymphoma cells, apoptosis of, A375
- in spermatozoa, A392
- redox modulation of, from excitable cells, A136
- signalling and, in plants and yeast, A56
- store-operated mitochondrial modification of, A463
- in regulation of hepatocyte F-actin and endoplasmic reticulum, A387
- transient receptor potential, maitotoxin-activated, in liver cells, A388
- voltage-dependent experimental and modelling studies of, A417
- structure of, A43
- Calcium channel proteins, in *Caenorhabditis elegans*, A392
- Calcium influx, into T cells, pH and mitochondrial membrane energisation and, A284
- Calcium ion-dependent ATP, in brain, A39
- Calcium pump, of cardiac sarco(endo)plasmic reticulum, regulation of, A136
- Calcium release histamine-induced, in urinary bladder, A281
- from permeabilised cells, inositol trisphosphate induction of, A274
- by ryanodine receptors, in Alzheimer's disease, A18
- from sarcoplasmic reticulum, by volatile organic solvents, A46
- Calcium signalling processing of in neuronal nuclei, synaptically evoked gene expression and, A275
- in stomatal guard cells, A57
- Calcium status, vascular smooth muscle cellular proliferation and, A296
- Calcium-binding protein, from *Physarum polycephalum*, crystal structure of, A423
- Calcium/calmodulin-regulated channels in plants, heavy metal tolerance and, A56
- signal transduction through, in plants, 471
- Calcium-dependent interactions with calmodulin, nitric-oxide synthase peptide calmodulin binding region in, A275
- Calcium-regulatory membrane protein, in cardiac muscle, oligomerisation of, A32
- Calycylin-binding protein, in brain neurons, A443
- Caldecrin in muscle, A324
- in suppression of bone resorption by intramolecular domains, A322
- Calmodulin antagonists, cerebellar inositol trisphosphate receptor and, A285
- Calmodulin gene, in *Blastocladia emersonii*, A237
- Calnexin glycoenzyme folding and activity and, A124
- mapping lectin, ERp57 binding and chaperone sites of, A463
- in molecular transport in MHC class I, A454
- Calpain cholera toxin activation of, in thyroid, A330
- effect on endopeptidase activity during meat aging, A315
- Calpain inhibitor e-64d, cell differentiation blockade by, during myogenesis, A293
- Calreticulin chaperone ERp57 interaction with, A413
- glycoenzyme folding and activity and, A124
- mapping lectin, ERp57 binding and chaperone sites of, A463
- Camel, pancreatic lipase and colipase in, A313
- Campylobacter jejuni*, flagellar expression in, *rpoN*, *nrC*, and *fljA* in, A178
- Canavalia gladiata*, serine proteinase inhibitors from, A421
- Cancer: *see also* Carcinogen; Chemoprotection; *specific cancer site or type*.
- animal models of, A12
- barrier to, replicative senescence as, 226
- basal cell, multiple cutaneous, GST and CYP and, A4
- DNA repair and, A102, A108
- G₁/S progression in, A134
- multidrug resistance of, ATP-binding cassette transporters in, A143
- prevention of, antioxidants and detoxification enzymes in, A5
- proteomic strategies in, A131
- replicative senescence and, A3
- Candida albicans* CUG codon evolution in, A186
- glucosamine-6-phosphate synthase of, A315
- oral epithelial cells challenged by, adrenomedullin expression and, A231
- 1b-AMP1 against, A206
- Capillary chromatography, direct flow control, in automated identification of proteins, A260
- Capillary electrophoresis, DNase I footprinting by, A366
- Capsid protein, of Semliki Forest virus, internal hydrophobic motif in, A213
- Carbaryl, N2a neuroblastoma cell differentiation and, A438
- Carbohydrates, in lumen of endoplasmic reticulum, A124
- Carbon dioxide in fatty acid synthesis, 567
- and water oxidising complex of photosystem II, A404
- Carbon dioxide fixation in homochirality, A96
- homochirality and, A184
- Carbon monoxide-bound cytochrome c oxidase, FTIR on, A189
- Carbon partitioning, in acetyl-CoA carboxylase expression, 598
- Carbon supply for fatty acid biosynthesis, acyl-CoAs and acyl-CoA-binding protein in regulation of, 672
- for storage-product synthesis, in developing oilseed rape, 667
- Carbon tetrachloride, injury induced by, hepatic galectin 3 in recovery from, A276
- Carbonic anhydrase, sulphonamide inhibitors of, lymphome growth inhibition by, A297
- Carbonyl cyanide P-(trifluoromethoxy)phenylhydrazone (FCCP) protein synthesis inhibited by, A345
- RNA-activated protein kinase induced by, A345
- Carboplatin: *see also* Cisplatin. mitochondrial DNA damage from, repair of, A463
- Carcinogens, chemical, bioactivation of, A6, 1
- Cardiac: *see also* Coronary artery disease; Heart; Myocardium.
- Cardiac gene regulation, zinc finger genes in, A176
- Cardiac muscle, Ca^{2+} -regulatory membrane proteins in, oligomerisation of, A32
- Cardiac myoblasts hydrogen peroxide-induced apoptosis of, IGF-I in protection against, A276
- myogenic differentiation of, p38 MAP kinase activation by phosphoinositide 3-kinase during, A292
- Cardiac myocytes apoptosis of, p21CIP1 and p27KIP1 in, A367
- histone H3 phosphorylation in, after hyperosmotic shock, A429
- MAP kinase activation in, α_1 -adrenergic stimulation of, A431
- mitochondrial membrane potential changes in, A188
- 4E-BP1 and eIF4E regulation in, A432
- Cardiac myosites, inside-out patches from, nitric oxide modulation of sodium current in, A461
- Cardiomyopathy, hypertrophic familial, A104
- myocardial glycogen turnover in, A161
- troponin T gene in, cytosine methylation and, A154
- Cardiovascular disease lipoprotein modification and, A94
- prostacyclin receptor antibody as marker for, A157
- Carnitine, in membrane permeability transition and apoptosis, A441
- Carnitine acyltransferase, acyl-CoA-dependent reactions and, A12, 182
- Carnitine palmitoyltransferase I, muscle-type, control by myogenic factors and PPARs in skeletal muscle, A285
- β -Carotene, in pregnancy, A195

- β,β -Carotene 15,15'-dioxygenase, cloning and expression of, A334
- Carotenoids
with ionone end groups, lycopene cyclases in, 806
lipoxygenase-catalysed degradation from tomato, antioxidant vitamins and, 839
in *Vitis vinifera*, ultraviolet light and, 883
- Cartilage repair, extracellular matrix and growth factors in, A56
- Carvedilol, effect on oxidative stress and mitochondrial bioenergetics, A434
- Casein kinase II
hsp105 phosphorylation by, A411
during progesterone-induced oocyte maturation, A386
- Casein kinase II-like ectokinase activity, on RBL-2H3 cells, A433
- Cashew tree, exudate gum from, biotechnological utilisation of, A336
- Caspase(s)
activation of in acetoxychavicol acetate-induced apoptosis, A378
in hydroquinone-induced apoptosis of leukaemia cells and T cells, A447
- Caspase-3
apoptosis independent of, seminal plasma induction of, in prostate epithelial cells, A384
in protease assays using SPECTRAMax GEMINI spectrofluorometer, A364
in RGD-containing peptide induction of leukaemia cell apoptosis, A445
- Caspase-12, in mediation of endoplasmic reticulum apoptotic pathway, A139
- Caspase cascade, activation by apoptotic protease activating factor, A28
- Caspase inhibitor, neuronal cell protection by, A28
- Caspase recruitment domain, structural analysis of, A456
- Cassava leaves, sucrose uptake in, A390
- Castor bean seeds, acid phosphatase from, amino acid modification and, A327
- Castor oil biosynthesis, biochemical aspects of, 972
- Catalase, from *Salmonella typhimurium* and *Paracoccus denitrificans*, purification and kinetic properties of, A313
- Catalase enzyme, in isoniazid-resistant strains of *Mycobacterium tuberculosis*, A160
- Catalase-peroxidase enzyme, from *Mycobacterium tuberculosis*, A326
- Catalytic efficiency, of alkaline phosphatase, heat lability and, A308
- Catecholamines, mitochondrial functioning and, A277
- β -Catenin
in Alzheimer's diseased brain, A35
IL-6 regulation of, in hepatocarcinoma and leukaemia cells, A296
in Wnt pathway, A128
- CATH domain database, to assign structures and functions to genome sequences, 269
- Cattle, evolution of α -globin genes in, A186
- Caveolin-2, arsenite-downregulated, and ultraviolet light-induced apoptosis, A373
- CBF1 nuclear protein, characterisation of, A287
- c-Cgl proto-oncogene, E3 ligase activity of, ubiquitin-associated domain in, A465
- CcpA protein, and cellobiose-inducible lactose metabolism, A192, A215
- CD28, IGF-I receptor regulation by, FAS killing and, A29
- CD36 scavenger receptor, vitamin E inhibition of, A242
- CD45, association with protein tyrosine kinase LCK and adaptor protein LAT, A428
- CD63 protein, regulation of, in breast cancer cells, A225
- CD69 molecule, structure and binding properties of, A270
- CD157, in *Escherichia coli*, Zn²⁺ effects on, A411
- Cdc2, in cytoskeletal structures during plant mitosis, A366
- cdk: see Cyclin-dependent kinase entries.
- cDNA microarray probes, reverse transcription and, A228
- CDPK, phosphorylation of RNA-binding proteins from spinach chloroplasts by, A431
- CDR-H3 conformation, antibody maturation pathway and, A255
- CD8⁺ T cells, from viral infection patient, apoptosis and replicative senescence in, 255
- C/EBP- β
association with hepatocyte nuclear matrix, in acute phase response, A289
partitioning between nuclear matrix compartments, A289
- Cell adhesion molecules, expression in Langerhans cells, *Leishmania major* lipophosphoglycan and, A234
- Cell cycle
allicin effect on, A369
in B cell chronic lymphocytic leukaemia, A368
Bak-induced arrest of, p27KIP1 and, A368
of butyrate-resistant cancer cells, A370
control of, A129
FoxM1-facilitated progression through, cyclin expression and, A370, A372
G₁/S progression in, in cancer, A134
Id function during, Cdk-dependent phosphorylation and, A368
internal ribosome entry site dependent on, A369
mammary, IL-10 in, A376
of plant, effect on plant growth rate and morphogenesis, A129
proliferating mammalian cells during, protein degradation and ribonucleotide reductase activity in, A367
translational control dependent on, A134
- Cell cycle re-entry, regulation of, A3
by growth, survival, and stress signalling pathways, 233
- Cell cytotoxicity, in cerebral neurons, A β 1-40-induced, Fe²⁺ role in, A431
- Cell death: see also Apoptosis; Necrosis.
neuronal and glial, neopterin and, A346
in plants, hypoxia and anoxia induction of, A372
- Cell differentiation, blockade by calpain inhibitor e-64d, during myogenesis, A293
- Cell integrity signalling, in *Saccharomyces cerevisiae*, Hcs77 and Mid2 activation of, through Rom2, A281
- Cell nucleus, transport in and out of, A97
- Cell physiology, effect of P52 protein from *Streptomyces griseus* on, A195
- Cell proliferation, small GTPases and, A115
- Cell senescence
ageing and, A2, 221
replicative
as cancer barrier, A3
in viral infection, A4
- Cell survival: see also Apoptosis.
IGF-I receptor signals and, 47
- Cell viability, screening of, optical oxygen sensor for, A43
- Cell volume, MAP kinase and, A272
- Cell-cell recognition, by animal lectins, A133
- Cellobiose
lactose metabolism induced by, CcpA protein and, A192, A215
oxidation of
by cellobiose dehydrogenase, electrochemical investigation of, 63
electrochemical investigation of, A20
- Cellular aggregation, peptide activator of, A206
- Cellular bioinformatics, A149
- Cellular economy, regulation of, A106
- Cellular immunity, in multiple sclerosis, A344
- Cellular senescence, immune response and, A3
- Cellular signalling
cell redox state impairment and, A280
by tyrosine phosphorylation, A128
- Centaurins, of *Caenorhabditis elegans*, as phosphatidylinositol trisphosphate receptors, A358
- Central nervous system
development in *Drosophila*, cell divisions during, A139
metallopeptidase in, ECEL1 (XCE) as, A59
repair of
bone marrow stem cells for, 341
stem cells in, A54
- Ceramide
resistance to, Jak/Stat signalling in, A358
sphingomyelin hydrolysis to, during apoptosis, A396
synthesis of, cysteine in, A356
- c-erbB2 mutations, in pancreatic cancer, A222
- Cerebellum, inositol trisphosphate receptor in, calmodulin antagonists and, A285
- Cerebral dysfunction, serum/urine amino acids and metabolites in, A158
- Cerebral neurons, signal transduction and cytotoxicity in, A β 1-40-induced, Fe²⁺ role in, A431
- Cervical abnormalities, papillomavirus infection and, A212
- Cervical cancer, IL-2 induction of JAK tyrosine phosphorylation in, A283
- CF₀CF₁, proton transfer through, ATP regulation of, under photophosphorylation, A190
- c-Fos, core binding factor α 1 interaction with, A455
- c-fos, PDGF-induced, taurine and, A202
- CGRP: see Calcitonin gene-related peptide.
- Chaetomium thermophilum*, xylanase from, A320
protease probes of, A420
- Chaperone(s)
annealing of kinetically-trapped assembly intermediate by, A410
hsp70 as, interdomain communication in, A51
molecular, structure and function of, A140
in protein folding, A51
protein folding assisted by, in cytosol, A140
reactivation of thermally denatured *Escherichia coli* FBP aldolase by, A411
sites of, on calnexin and calreticulin, A463

- Chaperone DnaK, in defence against oxidative stress, in *Escherichia coli*, A325
- Chaperone ERp57, calreticulin interaction with, A413
- Chaperone GroEL, in protein folding, A70
- Chaperonin, structure and function of, A51
- Chaperonin CCT, cytoskeletal component interaction with, A415
- Charge solvation, biophysics of, A264
- Chd1, from *Burkholderia cepacia*, expression of in *Escherichia coli*, A151
- Chelidonium majus* lectin, in tumour cell apoptosis, A374
- Chemical burn, connective tissue metabolism after, A159
- Chemokines, C-C
cytokine synergy with, in matrix metalloprotease production, A340
liver-expressed, A341
- Chemometrics, to predict function of enzyme class, A73
- Chemopreventive drugs, molecular target-based discovery and development of, A142
- Chemoprotection
apoptosis as target of, A6
carcinogen bioactivation and, 1
chemotherapy resistance and, in oesophageal carcinoma cells, 27
cytochrome P450s and, A6, 42
diet and, 12
flavonoids and cinnamates in, 16
Nrf2 transcription factor and GST expression in, 33
phytochemicals in, 22
signal transduction pathways in, A7, 7
- Children
bronchial asthma in, soluble ICAM-1 and soluble L-selectin in, A153
growth disorders in, GH receptor and IGF-I receptor genetic structure in, A279
neuroblastoma in, MF virus-induced MYCN DNA amplification in, A225
- Chilean papaya fruit, ripening of, A404
- Chilli seed, transfer of reporter gene to, pollen tube pathway in, A403
- Chironomus pallidivittatus*, telomere structure of, A184
- Chitinase, acidic, in *Coffea arabica* embryogenesis, A405
- Chitosan, effect on dermal fibroblasts, A84
- Chlamydomonas reinhardtii*, tubulins in, A218
- Chlorate reductase, from *Ideonella dechloratans*, A321, A322
- Chlorella pyrenoidosa*, anaerobic lipoygenase activity from, 950
- Chloroplast
phytylation in, A405
protein import systems of, A127
- Chloroplast envelope
monogalactosyldiacylglycerol synthase synthesis in, 732
of plants, protein import across, A57, A58
protein import across, 485, 491
- Chloroquine
accumulation of, in *Plasmodium falciparum*, A199
ahaptoglobinaemia induced by, A201
- Chlorpromazine, haemolysis and, A396
- Cholangiocarcinoma
liver cytochrome P450 in, A227
mucin marker of, A227
nitric-oxide synthase induction in, A227
plasma proteins derived from, A226
- Cholera toxin, thyroid calpain activation by, A330
- Cholesterol
biosynthesis from lanosterol, A443
in liposomal membranes, ethanolamine plasmalogen protection of, from free radicals, A398
- Cholesterol ester uptake, LDL and, in type 2 diabetes, A94
- Cholesterol esterification, in monocytes, macrophages, and foam cells, A342
- Cholesterol-binding cytolysins, human-specific lysis by, A233
- Choline, effect on *Pseudomonas aeruginosa* virulence and autoinducers, A232
- Choline kinase, from peas, purification of, 721
- Cholinergic agonists, acetylcholinesterase secretion and, by neuroblastoma cells, A353
- Chondrocyte, differentiation/dedifferentiation of, protein kinase C in, A86
- Chorion laeve tissues, of foetal membrane, apoptosis of at normal parturition time, A381
- Chromatin
ATP-dependent remodelling of, A62
investigating structure of, oligonucleotide conjugate probing in, A458
nucleosome core particle of, helical DNA repeat in, 373
organisation of, A62
signalling to, A118
structure of, glucocorticoid action effects on, A175
- Chromatin remodelling
ATP-dependent, 376
corepressor complexes and, A63
enzymes for, in mitotic gene expression, A113
glucocorticoid receptor N-terminal domain and, A64
neuron restrictive silencer factor and, A88
by nuclear receptors, 405
recruitment of by glucocorticoid receptor, during gene activation, 410
by steroid receptor co-activators, gene regulation through, 369
for transcriptional silencing, co-repressor complexes and, 379
- Chromium toxicity, in cyanobacteria, A149
- Chromosomes, steroid receptor interaction with, A64
- Chylomicron remnant
and basal release of nitric oxide, in coronary artery, A357
binding and internalisation of, by hepatocytes, type of dietary fat and, A342
enriched in n-3/n-6 polyunsaturated fatty acids, hepatic lipid secretion and, A343
- Chymotrypsin-like proteinase, myonase as, myofibril localisation of, A344
- Cinnamates, dietary, cancer prevention and, 16
- Cinnamoylchymotrypsin, FTIR of, A416
- Circadian clock-related protein Per1, hypothalamic protein B10 interaction with, A278
- Circles, covalently closed vs rolling replication, A486
- Circumferin, nucleoporin interaction with, stress sensitivity of, A443
- Cisplatin: *see also* Platinum anticancer drugs.
acute renal failure induced by, A200
resistance to, intracellular Ca²⁺ concentration and, in lung adenocarcinoma, A454
- Citrate
in formation of oxaloacetate and acetyl-CoA, 593
salivary Ca²⁺ complexation of, A45
- c-Jun
core binding factor $\alpha 1$ interaction with, A455
in IL-6 expression controlled by IL-1 and TNF- α , A241
- c-jun, PDGF-induced, taurine and, A202
- c-Jun N-terminal kinase (JNK)
activation of
by mechanical stress, A424
in renal tubular epithelial cell exposure to oxalate, A377
in development of resistance to Pgp-unrelated drugs, in multidrug-resistant cells overexpressing Pgp, A376
in IL-6 expression controlled by IL-1 and TNF- α , A241
muscarinic receptor regulation of, A429
protein kinase C activation of, PAR-2 in, A267
RANK activation of, A277
signalling pathways of, interactive regulation of by muscarinic receptor and β_2 -adrenoceptor, A426
- Clinical science
in popular media, A1
teaching of by general practitioner to patient, A1
- Clostridium symbiosum*, glutamate dehydrogenase from, A73
- ClpB, reactivation of thermally denatured *Escherichia coli* FBP aldolase by, A411
- c-MOAT, molecular expression of, in gastrointestinal tract, A91
- Coagulation
intrinsic pathway for, primary destination of, A328
proteins in, binding to artificial surfaces, A362
serine proteinases in, BPTI mutant inhibition of, A459
- Cobalamin
biosynthesis of, A330
methionine synthase dependent on, in colon tumour, A220
- Cocoyam
dasheen genus relatedness to, A290
molecular analysis of, A179
- Coffea arabica*, embryogenesis in, acidic chitinase during, A405
- Cold acclimation/deacclimation
energy balance in, in obese and lean rats, A193
plant oligosaccharides and, A400
- Colipase, pancreatic, in camel, A313
- Collagen(s)
angiogenesis inhibitors derived from, A108
design and expression of, A55
fibrous composite from, with dynamically controlled stiffness, 357
Mg²⁺-dependent integrin binding of, in platelets, calcium concentration and, A85
production of, recombinant expression systems for, 350
recombinant, in tobacco plants, A55
recombinant human, in yeast, A55, 353
of sea urchins, dynamically controlled stiffness in, A55
- Collagen cell contraction, fibroblast-mediated, inhibition of by activation of diacylglycerol-dependent protein kinase C, A85
- Collagen hydroxyproline, in eye, A362
- Collagen peptide, homotrimeric, integrin-inserted domain in complex with, A86

- Collagen-bound matrix metalloproteinases-2 and 9, in uterine tumours, A442
- Colocasia*: see Dasheen.
- Colon, mucosal barrier function in, restitution after injury or inflammation, butyrate in, A360
- Colon cancer, heredity, DNA repair defects in, A101
- Colon tumour
cobalamin-dependent methionine synthase in, A220
methionine-dependent, folate in, A224
- Colonic epithelial cells, vinblastine resistance in, A91
- Colorectal cancer
diet and, 12
microsatellite instability of, A220
plasminogen activator inhibitor I gene polymorphism in, A226
prevention of, diet and, A7
- Columbinic acid, in *Aquilegia vulgaris*, 641
- Coluria geoides* hairy roots, polyprenoids in, 790
- Comamonas testosteroni*, 3 α -hydroxysteroid dehydrogenase gene repression in, A244
- Comparative sequence analysis, A107
- Complement, activation of
in inflammatory disease, A491
in type 1 diabetes, A31
- Complement component C2, purification of, A490
- Complement deficiency, apoptosis and autoimmunity in, A488
- Complement system, serine proteases in, A488, 545
- Complex lipid(s), biotechnological aspects of
acyl-acyl carrier protein thioesterase cloning as, from *Brassica*, 967
in *Arabidopsis* acyl-CoA synthetase, 957
in *Arabidopsis* AMP-binding protein gene family, 955
in castor oil biosynthesis, 972
in cross-reactivity between porcine pancreatic and rapeseed lipases, 974
enhancement of seed oil content by glycerol-3-phosphate acyltransferase genes as, 958
in erucic acid-specific lysophosphatidic acid acyltransferase activity, in oilseed rape, 964
in lipase-catalysed production of biodiesel fuel from lauric oils, 979
in mutagenesis of plastidial lysophosphatidic acid acyltransferase, 961
in papaya lipase, 977
transgenic oil palm production and projection as, 969
- Complex lipid biosynthesis: see also Lipid biosynthesis; Phospholipid synthesis.
glycosylglycerides in, 729, 732, 738, 740
Kennedy pathway in
Arabidopsis acyltransferase in insect cell cultures, 687
Caenorhabditis elegans acyl-CoA: diacylglycerol acyltransferase cDNA expression in yeast, 692
cloning of *gyl1* in, 675
diacylglycerol acyltransferase genes, expression in olive tissues, 695
diacylglycerol acyltransferase in triacylglycerol biosynthesis, 698
lipid-body biogenesis mechanisms in, 710
Mortierella alpina microsomal membranes, oil biosynthesis in, 707
oilseed rape diacylglycerol acyltransferase in, 684
plant GPAT in, 677
squash GPAT mutagenesis in, structure selectivity of, 680
storage product accumulation in oat, during kernel development, 705
sunflower seed diacylglycerol acyltransferase in, 689
triacylglycerol accumulation in *Saccharomyces cerevisiae*, acyl-CoA:cholesterol acyltransferase in, 700
triacylglycerol production, phospholipid:diacylglycerol acyltransferases in, 703
wheat with altered GPAT or acyl-acyl carrier protein thioesterase in, 682
sphingolipids in, 745, 747, 748, 751
- Complex lipid degradation
in *Arabidopsis*, 773
in leaf senescence, 775
in germinating sunflower seedlings, 771
microbial, in plant sulpholipid, 781
in oil palm, screening for, 769
in *Vigna unguiculata* leaves, drought stress and, 779
in wheat, graminicides and, 777
- Complex structures, solving of, A132
- Computer, in predicting exogenous gene clusters, in *Rhodobacter capsulatus*, A183
- Computer-assisted learning, pharmacy and utilisation of, A143
- Connective tissue metabolism, after gullet chemical burn, A159
- Connexin 32 gene, regulation of, A169
- Connexin 32 promoter, retinoid X receptor response element in, A236
- λ -Conotoxin, from snail venom, A409
- Conserved unidentified open reading frames, in *Escherichia coli*, A228
- Contact lens wearers, tears of, lactate dehydrogenase in, A319
- Copper
H⁺-ATPase inhibition and permeability changes induced by, in plasmalemma, A389
homeostasis of, octapeptide repeat region of prion protein in, A347
lipids and
in lichen and bryophytes, 910
in wheat, 905
prion protein and, A36, A304
in quinoprotein amine oxidase, oxygen activation in, A77
- Copper amine oxidase, in *Escherichia coli*, conserved tyrosine residue in, A72
- Copper/zinc-superoxide dismutase, from black porgy, A215
- Core binding factor $\alpha 1$ (Cbfa1), interaction with c-Jun and c-Fos, A455
- Co-repressors
chromatin remodelling and, A63
effect on thyroid hormone receptor silencing function, 386
in transcriptional silencing, 379
- Corn trypsin inhibitor, Hageman factor and, A362
- Cornea, epithelial migration in, galactose-linked glycoproteins in, A454
- Coronary artery, basal release of nitric oxide in, chylomicron remnants and, A357
- Coronary artery disease: see also Cardiac entries; Heart; Myocardium.
apolipoprotein B oxidation in, A94
platelet membranes in, nitric oxide production and arachidonic acid metabolism in, A162
- Cortex
AChE in, after prenatal hypoxia, A345
neurotrophin-induced neural activity in, A346
- Cotton seeds
oil from, inverted-repeat DNA in, 927
salt stress in, triacylglycerols and, 902
- Cowpea leaves, lipids in, under water deficit, 915
- CpG,
immunomodulatory/immunostimulatory effects of, in vertebrates, A492
- Creatine kinase
from heart during stress, ageing and, A155
in tissue energy balance, A99
- CREB: see Cyclic AMP response element-binding protein.
- Crithidia fasciculata* mitochondria, RNA-binding proteins from, A484
- Crk proto-oncogene, in differentiation induction of preadipocytes, A431
- Cro-repressor from λ phage, variants of, unfolding intermediate of, equilibrium association of, A414
- Cross-linking, in lumen of endoplasmic reticulum, A124
- Cryopreservation, of fig stem shoots, A290
- Cryptocodium cohnii*, ultrastructure of, A251
- Cryptosporidium*, from human faeces, A483
- α A-Crystallin, oligomerisation and chaperone function of site-directed mutants in, A258
- α B-Crystallin, recombinant, baculovirus expression of, heat-shock protection and, A73
- γ B-Crystallin, lysine residue modification in, structural changes after, A87
- Csk: see C-terminal Src-kinase.
- C-terminal Src-kinase, overexpression of, and AP-1 activation by lipopolysaccharide, A279
- Cucumber
matrix metalloproteinase gene of, in senescence, A173
monogalactosyldiacylglycerol gene in, transcriptional regulation by light and phytohormones in, 738
- Cucumis sativus* hypocotyls and leaves, isoperoxidase pattern and activity in, A400
- CUG codon evolution, in *Candida albicans*, A186
- CUG-binding proteins, in alternative splicing of α -tropomyosin and α -actinin gene, A177
- Curcumin, microglial activation inhibited by, A305
- CUT1 wax-specific condensing enzyme, in *Arabidopsis*, 651
- Cyanine dyes, as DNA minor groove binders, A464
- Cyanoalanine residue, in catalytic reaction of haloacid dehalogenase, A452
- Cyanobacteria
chromium toxicity in, A149
induction of fatty acid desaturation in, by transduction of low temperature signals, 628
at low temperature, polyunsaturated fatty acid synthesis and, 892
membrane lipid and pigment composition of, glucose concentration and, A398
respiration of, A190
- Cyclic AMP
Ca²⁺-dependent nuclear response cross-talk with, DREAM and CRE-binding proteins in, A273
effect on cubic liquid-crystalline phase of monooleine-water, A284
mitochondrial functioning and, A277

- signalling by, during trypanosome differentiation, A480
- Cyclic AMP response element-binding protein (CREB), in Ca^{2+} -dependent nuclear response cross-talk with cAMP, A273
- Cyclic AMP response element-binding protein-binding protein, SRC1 and Ets-2 binding sites on, A286
- Cyclic AMP-specific phosphodiesterase IV_{A1}, in mammals, A76
- Cyclic GMP, antiproliferative action of, cyclin D1/cdk and, in vascular smooth muscle cells, A366
- Cyclic nucleotide monophosphate phosphodiesterases, phytochrome absorbed light and, A275
- Cyclic nucleotide-regulated channels in plants, heavy metal tolerance and, A56
signal transduction through, in plants, 471
- Cyclin(s), of trypanosomes, A480
- Cyclin A gene, in *Caenorhabditis elegans*, A369
- Cyclin D1, vascular smooth muscle cellular proliferation and, A296
- Cyclin D1/cdk, and antiproliferative action of cGMP, in vascular smooth muscle cells, A366
- Cyclin E, cdk2 co-expression with, in uterus after implantation, A297
- Cyclin-dependent kinase(s), in trypanosomes, A480, A482
- Cyclin-dependent kinase-2
cyclin D1 and, and cGMP antiproliferative action in vascular smooth muscle cells, A366
cyclin E co-expressed with, in uterus after implantation, A297
- Cyclin-dependent kinase-4, cyclin D1 and, and cGMP antiproliferative action in vascular smooth muscle cells, A366
- Cyclin-dependent kinase-5, as negative regulator of MAP kinase pathway, A433
- Cyclin-dependent kinase inhibitor genes, in tumour-bearing liver, A239
- Cyclin-dependent kinase-dependent phosphorylation, and Id function during cell cycle, A368
- Cyclooxygenase, inhibition of, lipoxigenase-dependent contraction in aorta strip after, A326
- Cyclooxygenase inhibitors, protein kinase C δ localisation and, in small intestine, in APC defect, A432
- Cyclooxygenase-2, in macrophages, up-regulation of, A270
- Cyclophilin A, localisation in keratinocytes, A350
- Cyclophilin B, and maternal recognition of pregnancy, A339
- Cyclosporine, teratogenic effect of, A292
- Cylindrospermopsis raciborskii*, at low temperature, polyunsaturated fatty acid synthesis in, 892
- CYP1A1, bilirubin and, under ultrasound action, A239
- CYP1A1 and 1A2, environmental oestrogens and, in breast cancer cells, A435
- CYP3A4 and 3A5, environmental oestrogens and, in breast cancer cells, A435
- CYP94A1, ω -hydroxylation of epoxy- and hydroxy-fatty acids by, 867
- Cryo-electron microscopic study of ribosome structure and function, A109
of translation dynamics, A109
- 2-Cys peroxiredoxin, decameric, from erythrocytes, A75
- Cystatin, folding of first domain in, A409
- Cysteine
biosynthesis pathway for, in higher plants, A262
in C₂-ceramide synthesis, A356
in melanocortin 1 receptor, A266
- Cysteine dioxygenase, regulation of, in HepG2 cells, A193
- Cysteine proteinases, of *Leishmania*, A254
- Cysteine-rich domain, of amyloid precursor protein, structure of, A87
- Cysteine-rich protein, and yellow fraction, from *Lucina pectinata*, A419
- Cystic fibrosis, genetic mutation in, lung cancer and, A303
- Cystic fibrosis gene protein (CFTR) degradation of major cytoplasmic domain of, A355
localisation in airway gland cells in nasal polyp tissues, A351
- Cystine transport, in brain synaptosomes, A38
- Cytochrome(s), biosynthesis of, in presence of Ni²⁺, Cd²⁺, and Zn²⁺ in *Paracoccus denitrificans*, A435
- Cytochrome b₅, structure, stability, and functions of, proline 40 and, A413
- Cytochrome bc₁ complex
functions of, A101
mechanisms of, A100
structure of, A100
- Cytochrome bd oxidase, heme-heme interactions in, A448
- Cytochrome c
buried water molecule in, dielectric effect of, A264
conserved tryptophan in, A263
hsp70 inhibition of apoptosis downstream of, A378
hydrogen peroxide-induced damage of, apoptosis and, A449
as mediator in cellobiose oxidation by cellobiose dehydrogenase, 63
outside mitochondria, antioxidant function of, A363
release from mitochondria into cytosol, fenretinide induction of, A92
release of, in apoptotic and viable cells, A12
- Cytochrome c oxidase
CO-bound, FTIR on, A189
electrons and protons in, A100
F-to-O transition of, pH and temperature effects on, A469
- Cytochrome c reductase, cardiac, reaction mechanism of, A190
- Cytochrome oxidase VI, in trypanosomes, developmental stage and, A485
- Cytochrome P450
chemoprevention and, A6, 42
cutaneous basal cell carcinoma and, A4
hepatic, vitamin K and, A439
induction of, in cholangiocarcinoma, A227
three-dimensional structures of, modelling of, A418
- Cytochrome P450 monooxygenases in hyperoxic pulmonary damage, A161
protein-protein interactions in, A415
- Cytokine(s)
C-C chemokine synergy with, in matrix metalloprotease production, A340
in decidual natural killer cell interaction with trophoblast, 196
in embryo implantation and miscarriage, A20
gp130, receptor recognition by, A109
hormone-controlled, in pregnancy maintenance, 212
- induction of, by infection of endothelial and epithelial cells by Dengue virus, A28
in NK cell interaction with trophoblast, A19
proinflammatory induction, by Gram-negative bacteria, A490
regulation of, in utero-placental tissues, A18
in uteroplacental tissue, 191
- Cytokine receptor superfamily, signalling in hepatocytes, A278
- Cytophaga*, raw starch-digesting amylase gene from, expression in *Escherichia coli*, A214
- Cytosine methylation, effect on troponin T gene in hypertrophic cardiomyopathy, A154
- Cytoskeletal dynamics, ROK and Rho in, A118
- Cytoskeletal proteins
Na,K-ATPase association with, in brain neurons, A395
in squid phototransduction, A283
Cytoskeletal transductional complexes, molecular organisation of, A142
- Cytoskeleton, molecular motors and, A118
- Cytotoxic T lymphocytes, DWNN and, A230, A382
- Cytotoxicity, phytochemicals and, A7, 22
- Dairy product pathogens, piezoelectric immunosensor detection of, A44
- Danio rerio*: see Zebrafish.
- Dasheen
biochemical and molecular studies of, A290
effect on diabetic kidney, A156
genetic diversity and relatedness within genus and with yams, A290
molecular analysis of, A179
- Decameric 2-cys peroxiredoxin from erythrocytes, A75
structure of, A314
- Decathymidylate, phenazine derivative modification of, molecular hybridisation of, A468
- β -Defensins
in epithelial cells, A174
induction by IL-1 and *Helicobacter pylori*, in gastric epithelial cells, A493
- Dehydroquinase synthase, inhibitor complexes with, A332
- Delayed luminescence, of microalgae, oil hydrocarbon treatment and, A403
- Deletion analogues, of transportan, A208
- $\Delta clpB$ mutation defect, hsp compensation for, A412
- Dementia: see also Alzheimer's disease.
familial British, fibrillogenic ABri peptide in, A76
conformation and toxicity of, A305
genetics of, A15
- Dendritic cells
activation by meningococci, A493
T cell priming and polarisation by, A120
- Dengue virus, infection of endothelial and epithelial cells by, cytokine induction by, A28
- Deoxy-CTP, to enhance anti-HIV activity of 3TC, A331
- Depression, in old age, A346
- Depth-weighted insertion hydrophobicity, fusion-promoting peptide classification using, A148
- Dermal fibroblasts
chitosan and, A84
matrix metalloproteinase-1 expression by, PDGF effect on, A84
- Desaturases, endogenous, co-suppression of, in high-oleic acid *Brassica* species, 938

- Desulfovibrio gigas*
 flavodoxin from, recombinant expression of, A170
 membrane-bound [NiFe]hydrogenase in, A182
- Detergent-resistant membranes, in trypanosomes, A477
- Detoxifying enzymes, in insects, A440
- Dexamethasone
 oral mucosal tissue permeability to, A201
 targeted delivery to macrophages, nuclear factor- κ B modulation by, A436
- DGTS (diacylglycerol-*N,N,N*-trimethylhomoserine), seasonal variations of, in Polyodiophyta, 873
- Diabetes mellitus
 complications of, reversal by vanadium and plant-derived compounds, A154
 erythrocyte glucose uptake in, A161
 glucogenic hormones in, khat ingestion and, A156
 kidney in, yam and dasheen effects on, A156
 type 1
 complement activation in, A31
 erythrocyte free-radical processes in, lectins and, A397
 type 2
 abdominal obesity and, A161
 fatty acid metabolism of plasma and hepatic lipids in, melatonin and, A196
 hepatocytes in, impaired glucokinase translocation in, A198
 LDL and cholesterol ester uptake in, A94
 obesity and, molecular pathogenesis of, A104
- Diabetic patient
 glycaemia in, effect on peripheral artery disease and mortality of, A155
 serum of, effect on apoptosis, A27
- Diacetyl synthesis, acetolactate decarboxylase in, A25
- Diacylglycerol, protein kinase C dependent on, activation of, inhibition of fibroblast-mediated collagen cell contraction by, A85
- Diacylglycerol acyltransferase
 in olive tissues, 695
 from sunflower seeds, 689
 in triacylglycerol biosynthesis, 698
- Dialysis patients, thyroid hormone function in, A160
- Dibutyl cAMP, effect on cubic liquid-crystalline phase of monoolein-water, A284
- Dichloroacetate, effect on brain lactate and glutamate, in cerebral malaria, A455
- Dictiostelium discoideum*, metallothionein-like protein in, A292
- Diet
 cancer prevention and colorectal, 12
 flavonoids and cinnamates in, 16
 colorectal cancer prevention and, A7
- Diethylpyrocarbonate, rice sucrose synthase inhibition by, A406
- Diffusion barrier, mitochondrial outer membrane as, A11
- Digalactosyldiacylglycerol, as substitute for phosphatidylcholine in phosphate-deprived *Arabidopsis*, 729
- Digestive β -glucosidase, in insect, A315
- Digitonin, cell permeabilisation by, cellular lipid composition and, A399
- Dihydroxyacetone, glycerol oxidation to, in *Bacillus stearothermophilus*, A331
- Dimethyl sulphoxide, K⁺-independent pyruvate kinase activity and, A319
- Din7p overproduction, in *Saccharomyces cerevisiae*, mitochondrial DNA and, A165
- Dinoflagellate toxins, shellfish contaminated with, biosensor detection of, A44
- Dioscorea alata*: see Yam.
- Dioxin, foetal exposure to, and Sp1 development in brain, A345
- Dipeptidyl peptidase
 in glioma cells, differentiation rate and status and, A295
 as prolyl oligopeptide family member, A307
- Dipteran-specific bioinsecticide, from *Bacillus thuringiensis*, A440
- Discoid lupus erythematosus, anti-dsDNA in, A158
- Dishevelled activity, presenilin effect on, in Wnt pathway, A36
- Dithiol residue, on nuclear factor- κ B, nitric-oxide synthase gene promoter binding to, in hepatocytes, A340
- DNA
 analysis of, A39
 antibiotic resistance encoded in, in plant cells, A208
 cleavage of, by EcoP15I, A331
 double-stranded liquid-crystalline dispersions, as biosensors, 77
 of *Drosophila*, 5-methylcytosine in, A248
 helical repeat of, in nucleosome core particle of chromatin, 373
 human, yeast artificial chromosome carrying, A247
 interaction with formamidopyrimidine from *Escherichia coli*, A164
 inverted-repeat, 925, 927
 methylated, protein binding to, A113
 minor grooves of, cyanine dyes as binders of, A464
 mitochondrial
 Din7p overproduction and, in *Saccharomyces cerevisiae*, A165
 polymorphisms of, A362
 transcription of, mitochondrial transcription-termination complex in, 154
 plasmid, in skeletal muscle, A301
 polymorphisms of, after irradiation, A179
 protein kinase dependent on, DNA activators of, A333
 recombination of, during trypanosome antigen variation, A166
 recovery from agarose gel, A152
 replication and lagging strands in, tau subunit in, in *Escherichia coli*, A164
 structural transitions of, under divalent metal ions in aqueous solution, A460
 template properties of, 6-furfuryl-adenine (kinetin) effects on, A163
 from transfected plasmid, overproduction of recombinant protein from, A172
 unsteroid oestrogens and, A333
- DNA array, in discovery of *Y. pseudotuberculosis* virulence-associated genes, A232
- DNA base flipping, by *HhaI* methyltransferase, A468
- DNA copy number changes, in epithelioid sarcoma, A223
- DNA damage
 analysis of, A39
 chromium-induced, A169
 mitochondrial, from anticancer platinum drugs, A463
 photosensitized by 2-aryl-propionic acids, A24
 UMP1 induced by, in *Saccharomyces cerevisiae* resistance to ultraviolet light, A167
- DNA distortion, intrinsic and protein-induced, in mom gene of bacteriophage Mu, A441
- DNA gyrase genes, in bacteria, A288
- DNA ligase I, of *Schizosaccharomyces pombe*, N-terminal domain functions of, A251
- DNA liquid-crystalline dispersion, A21
- DNA looping, by EcoRII, imaging of, A328
- DNA loops, elastic rod model of, A446
- DNA methylation, cis-spreading of, Dnmt1 DNA molecular enzymology and, A248
- DNA methyltransferase
 adenine-N⁶ M.EcoRV, A309, A312
 cytotoxic overexpression of, PCNA-binding subdomain and, A182
 EcoP15I, DNA distortion by, A309
- DNA polymerase, from thermophilic microorganisms, genetic cloning of, A289
- DNA polymerase β , enzymatic activity in, A325
- DNA polymerase complex with nuclear membrane hepatocytes, DNA synthesis catalysed by, A168
- DNA polymerase III holoenzyme, from *Escherichia coli*, core subunits of, A416
- DNA promoter domains, of *Leishmania* species, A484
- DNA repair
 cancer and ageing effects on, A102, A108
 defects in, in hereditary colon cancer, A101
 of double-strand breaks, A101
 mitochondrial, after anticancer platinum drugs, A463
 uracil-DNA glycosylase in, molecular anatomy and physiology of, A101
- DNA repeat realignment, by RecA-motor, ATP hydrolysis and, A168
- DNA replication
AsusO₈ revertants and, A165
 in normal and neoplastic cells, A115
- DNA synthesis, catalysed by DNA polymerase complex with nuclear membrane hepatocytes, A168
- DNA vaccine, neuroendocrine-specific promoter in, antigen expression driven by, in skin and muscle cells, A258
- DnaJ, dual binding sites of, A353
- DnaK, in defence against oxidative stress, in *Escherichia coli*, A325
- dnaK* model heat shock gene expression, at different temperatures, A178
- DnaK/DnaJ/GrpE, compensation for Δ *clpB* mutation defect by, A412
- DnaKJ, reactivation of thermally denatured *Escherichia coli* FBP aldolase by, A411
- DNA-protein kinase C, measurement of, in X-irradiated cells, A214
- DNase gamma, apoptotic, activation mechanism of, A384
- DNase I footprinting, by capillary electrophoresis, A366
- Dnmt1 DNA, molecular enzymology of, in cis-spreading of DNA methylation, A248
- Docosahexaenoic acid
 elongation enzymes specific for, 658
Moritella marina production of, fatty acid biosynthesis in, 943
- Dolicholphosphate mannosyl synthase, phosphorylation site mutation and behavior of, A334
- Dopamine 2 receptor, structure and function of, A265
- Double-strand breaks, repair of, A101
- DOXP/MEP (1-deoxy-D-xylulose 5-phosphate/2-C-methyl-D-erythritol

- 4-phosphate) pathway, in non-mevalonate isoprenoid biosynthesis, 785, 792
- DREAM protein, cAMP and Ca²⁺-dependent nuclear response cross-talk with, A273
- Drinking water quality, and teratogenic and ontogenic alterations in neonatal rats, A434
- Drosophila*
- Ance and Acer in, structure determination of, A96
 - angiotensin I-converting enzymes in, A82
 - central nervous system development in, cell divisions during, A139
 - developmental signalling in, protein phosphatase 1 in, A425
 - DNA of, 5-methylcytosine in, A248
 - dual-specific MAP kinase phosphatase in, A427
 - DWNN protein domain in, A380
 - embryonic polarity of, A98
 - histone deacetylase from, A245
 - immune responses in, 551
 - nephrin-like gene family in, A81
 - neuropeptide and peptidase functions of, A61
 - retrovirus-like particles in, A251
 - SMC4* genetic mutations in, mitotic chromosome segregation and, A246
 - tightly linked gene cluster in, conserved synteny of, A247
- Drosophila* genomes, in study of neuropeptide and peptidase functions, 464
- Drought
- galactolipase activity and, in *Vigna unguiculata* leaves, 779
 - lipids and, in cowpea leaves, 915
 - nitrogen metabolism in, A328
 - wheat seedling sucrose metabolism in, A407
- Drug delivery vector, thermostable bacterial histone TmHU as, A214
- Drug discovery, Structural GenomiX in, A131
- Drug sensitivity/resistance: *see also* Multidrug resistance.
- in Trypanosomes, P2 adenosine transporter homologue of, A92
- DT-diaphorase, of *Giardia lamblia*, A483
- Duchenne muscular dystrophy, gene therapy for, A299
- Dunaliella salina* cells, salt concentration adaptation in, effects of photosystem and photochemistry on, A400
- Duodenase, proenteropeptidase cleavage by, A469
- DUP 753 cytotoxicity, in macrophages, A294
- DWNN
- in apoptosis and cytotoxic T lymphocyte killing, A230, A382
 - in *Drosophila*, A380
- Dynamitin homologue, in *Paramecium*, A355
- Dystrophin, immune responses to, A299
- Dystrophin-glycoprotein complex, in brain, A31
- E-selectins, vasoactive peptide-induced, on keratinocytes, A231
- E3 ligase activity of proto-oncogene c-Cbl, ubiquitin-associated domain in, A465
- EAAC-1 glutamate/aspartate transporter, in heart, A391
- ECEL1 (XCE), as central nervous system metalloproteinase, A59
- Echinococcus granulosus*, molecular markers in, A175
- Echinoderms, collagen fibrils in, dynamically controlled stiffness of, 357
- Eco*KI, proteolytic restriction control by, A177
- Eco*P15I, DNA cleavage by, A331
- EDA* gene, expression of, transcription factor LEF-1 and, A462
- Education
- bioinformatics in, A66, A67
 - via Internet, A67, A68
 - of patient, general practitioner role in, A1
 - in pharmaceutical industry, A67
 - of public
 - about science
 - language in, A2
 - popular media in, A1
 - Merville Lay Seminars in, A2
 - by whom, A2
- EF-G-dependent tRNA translocation, *Escherichia coli* L11 protein role in, A210
- EGF: *see* Epidermal growth factor.
- Egg whites, glycoproteins from, *Pseudomonas aeruginosa* lectin inhibition by, A231
- EH domain containing protein 1, IGF-I receptor endocytosis and, A356
- Eicosapentaenoic acid, elongation enzymes specific for, 658
- eIF4E regulation, in cardiac myocytes, A432
- Eikenella corrodens*
- aerobic respiratory system of, A189
 - oral epithelial cells challenged by, adrenomedullin expression and, A231
- Eimeria*
- albumin-binding protein in, A476
 - genetic linkage map of, A484
 - GPI-anchored proteinases from, A481
 - microneme protein EtMIC3 from, A486
- Electrodes, metallised, electrochemically grown polymers on, to reduce electrode fouling in biological matrices, 89
- Electron transfer, enzyme-catalysed, in biosensor development, A22, 84
- Electrospray ionisation-tandem mass spectrometry, in automated identification of proteins, A260
- Electrostatic interactions, helix stabilisation by glutamic acids in, A205
- Elk-1 transcription factor, cell fate determination and, A243
- EMBNet, Human Genome Mapping Project Resource Centre on, A68
- Embryo
- development of, replication checkpoint control of, A130
 - implantation of, cytokines and, A20
 - morphogenesis of, p57KIP2 during, A387
 - neural tube defect in, serine hydroxymethyltransferase activity in, inhibition by non-protein amino acids and organic acids, A438
 - patterning of, in *Caenorhabditis elegans*, genomic sequence and, A141
 - polarity of, of *Drosophila*, A98
 - stem cells of, neural differentiation of, A456
- Embryogenesis
- in *Coffea arabica*, acidic chitinase during, A405
 - in *Xenopus tropicalis*, mutations affecting, A141
- Emerin gene, disease-causing mutation in, A301
- Emphysema, pathogenesis of, myeloperoxidase in, A306
- EmrE, as ion-coupled multidrug transporter, A143
- Encephalomyelitis, experimental allergic, spinal cord in, nuclear factor- κ B activation in, A381
- Endocytosis
- control of in trypanosomes, A478
 - octapeptide repeat region of prion protein in, A347
- Endometrium, SV40 T antigen-immortalised glandular epithelial cells in, oestradiol regulation of, A296
- Endonucleases
- from *Bacillus* spp., A181
 - site-specific, in soil streptomycetes, A181
- Endopeptidase, during meat aging, calpain effect on, A315
- Endoplasmic reticulum
- apoptotic pathway in, caspase-12 and, A139
 - drugs targeted to, pH-sensitive liposomes as carriers for, A458
 - of hepatocytes, G protein and store-operated Ca²⁺ channel regulation of, A387
 - insertion of transmembrane helices into, A116
 - lumen of, carbohydrates and cross-linking in, A124
 - N-linked protein glycosylation in, A123
 - of plants, transport from to Golgi in, 505
 - p57 binding site on, in calnexin and calreticulin, A463
 - P4502B1 targeting to mechanisms of, A354
 - protein kinase A phosphorylation and, A349
 - transport to Golgi from, in plant cells, A59
 - of yeast and protozoas, glycoprotein folding in, A124
- Endothelial cells
- adrenomedullin and GCRP activation of MAP kinase pathway in, A298
 - apoptosis of, nitric oxide in, A376
 - Dengue virus infection in, cytokine induction and, A29
 - thrombin-mediated responses of, G protein pathways in, A471
- Endothelin G protein-coupled receptor, A75
- Endothelin-converting enzyme, in *Caenorhabditis elegans*, A82
- Endothelin-converting enzyme-1 in brain and endothelium, A81
- in nervous control of respiration, 426
- Endothelium, endothelin-converting enzyme-1 in, A81
- Endoxylanase A, from *Penicillium purpurogenum*, genetic sequence and characterisation of, A179
- Energy balance, in cold acclimation/deacclimation, in obese and lean rats, A193
- Energy metabolism, control of, A106
- Energy transduction, redox-Bohr-linked, structural bases for, A110
- Enkephalin gene, regulation during neurodevelopment, 446
- 5-Enolpyruvyl shikimate-3-phosphate synthase, enzymatic activity of, A317, A332
- Entamoeba histolytica*, lipophosphoglycan-like molecule biosynthesis in, A457
- Enteric nervous system development, enhancer element for, A385
- Environment
- analysis of biosensors in, 81
 - rapid antibody biosensors for, A22
 - lipids and seasonal variations of DGTS in Polypodiophyta, 873

- from thylakoid membranes, 912
- oestrogens in
breast cancer and, A465
cell assay systems for, A435
pollutants in, cell assay systems for, A435
sensitivity to, genetics of, A141
- Enzyme(s)
C-C bond-forming, mechanisms of, A70
class of, predicting from Chemometrics, A73
deficiencies of, metabolic consequences of, in skeletal muscle, A11, 159
direct electron transfer catalysed by, in biosensor development, 84
engineering of, to degrade explosives, A53
inhibitors of, directed evolution of, A53
new, design of, A53
in quantum world, A1
structure and function of, evolution of, A53
- Eosinophil peroxidase, in body's self-defence, A329
- Eph receptors, intracellular signalling by, A277
- Epidermal growth factor
adaptor protein Shc translocation induced by, in upregulation of tyrosine kinase c-Src, A432
B-loop mutants of, A444
and its receptors, in bladder cancer, A218
MEK1 and protein kinase B pathways activated by, TGF- β perturbation of, A370
mitogenic, target receptor of, A39
- Epilepsy, serum/urine amino acids and metabolites in, A158
- Epithelial cells
apoptosis of, c-Myc to p53 ratio and, A29
beta-defensin 2 mRNA in, A174
blood-air barrier in, protein and toxin transport across, A389
Dengue virus infection in, cytokine induction and, A28
in foetal lung, A438
gastric, glycine-extended and amidated gastrins and, A294
glandular endometrial, SV40 T antigen-immortalised, oestradiol regulation of, A296
oral, pathogen-challenged, adrenomedullin expression and, A231
prostate, seminal plasma activation of adenylyl cyclases and caspase-3-independent apoptosis in, A384
- Epithelial migration, corneal, galactose-linked glycoproteins in, A454
- Epithelial sodium channels, regulation by Nedd4 WW domains, A453
- Epithelioid sarcoma, DNA copy number changes in, A223
- Epoxide hydrolase gene, in *Euphorbia lagascae*, in early germination, 855
- Epoxy-fatty acids, ω -hydroxylation of, by CYP94A1, 867
- EPSP synthase: *see* 5-Enolpyruvylshikimate-3-phosphate synthase.
- Equinatoxin II, action mechanism of, A453
- erbB2*, in Schwann cell precursor pool myelination and expansion, A386
- ERK1/2: *see* Extracellular signal-regulated kinases 1 and 2.
- Ero1-L protein, structure of, A409
- ERp57, calreticulin interaction with, A413
- Erucic acid
from rapeseed, effects of *Arabidopsis* and yeast genes on, 935
in rapeseed-mustard, 581
- Erwinia chrysanthemi*, shikimate kinase II unfolding from, A410
- Erythrocytes
decameric 2-cys peroxiredoxin from, A75
free-radical processes in, lectins and, in type 1 diabetes, A397
glucose uptake by, in diabetes, A161
hexose transport in, A388
malaria parasite invasion of, A116
nitric oxide metabolism in, in chronic renal failure, A310
survival of, plasma factor and, A29
- Erythropoietin receptor, activation of, proteasome regulation of, A284
- ESA1, histone acetyltransferase domains of, A106
- Escherichia coli*
anion-translocating ATPase from, A66
Arabidopsis uncoupling mitochondrial protein expression in, A187
ATP-dependent protease Lon from, A317
bioH gene overexpression in, A333
Bmr(His)₆ multidrug efflux protein in, A88
Burkholderia cepacia Chd1 expression in, A151
CD157 in, Zn²⁺ effects on, A411
cell division in, antisense regulation of, A367
cloning and expression of raw starch-digesting amylase gene from *Cytophaga* spp. in, A214
conserved unidentified open reading frames in, A228
copper amine oxidase in, conserved tyrosine residue in, A72
defence against oxidative stress, cellular proteases and chaperone DnaK in, A325
DNA gyrase genes in, A288
DNA polymerase III holoenzyme of, core subunits of, A416
DsbC of, N-terminal sequence and, A413
expression of haloalkane dehalogenase gene *dhaA* from *Rhodococcus erythropolis* Y2 in, A153
FBP aldolase of, thermally denatured, reactivation by chaperones, A411
flavoprotein from, crystallographic study of, A420
formamidopyrimidine from DNA interaction with, A164
ethenoadenine derivative repair by, A168
formate hydrogenlyase pathway in, F₀dF₁ ATP synthase for, A187
fucose/glucose/galactose H⁺ symporter family in, A89
glycine cleavage system T protein in, A421
heat labile toxin from, immunomodulatory mechanisms of, A31
helicase of, *Escherichia coli* primase stimulated by, A248
3-isopropylmalate dehydrogenase mutant in, thermal stability of, A465
K⁺ uptake system of, growth pH and, A395
 β -ketoacyl synthases in, in fatty acid synthesis, 601
lactose permease of, A143
L11 protein localisation in, role in EF-G-dependent tRNA translocation, A210
malate dehydrogenase R153C in, A415
melR gene promoter of, repression of, A285
MelR protein of, DNA binding of, A287
- menaquinol:fumarate oxidoreductase, Qp site of, A190
methionine repressor protein of, A71
3-methyladenine-DNA glycosylase I from, A421
mismatch repair in, CTG-CAG repeats in, A168
multidrug efflux protein from, A65
nitric oxide-induced SOS DNA repair in, iron ions in, A165
NorA(His)₄ multidrug efflux protein in, A88
novel expression vectors of, A416
novel transaminase in, A181
NupC protein of
construction of, A94
overexpression of, A93, A94
structure and activity of, A88
penicillin-binding proteins 4 and 5 from, A318
plasmid-containing triplet repeats in, nucleotide excision repair and, A166
plasminogen kringle 1-3 in, angiogenin interaction with, A294
recombinant FN polypeptides of, plasmids of, A174
replication and lagging DNA strands in, tau subunit in, A164
reversion of *argE3* ochre mutation in, in stationary phase mutation studies, A167
RNA polymerase interactions in, A287
secondary transporter NhaA from, A65
sliding clamp of, protein interaction with, A163
- ESI-MS/MS: *see* Electrospray ionisation-tandem mass spectrometry.
- Estrogen: *see* Oestrogen.
- Ethanol, effect on *Pseudomonas aeruginosa* virulence and autoinducers, A232
- Ethanolamine plasmalogen, in protecting cholesterol from free radicals in liposomal membranes, A398
- Ethenoadenine derivative, repair by formamidopyrimidine from *Escherichia coli*, A168
- Ethoxyquin, GST induction by, in chemoprevention, 33
- EtMIC3 protein, from *Eimeria*, A486
- Etoposide, action on peritoneal macrophages, IL-3 and, A381
- Ets-1, AP-1 synergy with, in transactivation of IL-5 promoter, in lymphocytes, A471
- Ets-2, CREB-binding protein binding site for, A286
- Eukaryotea, transcription termination in, mRNA polyadenylation and, A461
- Eukaryotes, gene order evolution in, inversion frequency in, A107
- Eukaryotic chaperonin CCT, cytoskeletal component interaction with, A415
- Eukaryotic signalling, protein-protein interactions in, A146
- Euphorbia lagascae*, epoxide hydrolase gene in, in early germination, 855
- Euryhaline teleost, gill of, salinity-induced IGF and HNF in, A341
- Evolution, directed, novel transaminases produced by, A259
- Excitotoxicity, effects on β -amyloid precursor protein and presenilin on, A17
- Explosives, degrading of, engineering enzymes for, A53
- Extracellular matrix: *see also* Collagen. in bone and cartilage repair, A56
growth factor synergy with, in control of trophoblast invasion, 199
morphogenesis and, A54, 345
recombinant human growth and differentiation factor-5 and, inductive activity of, 362

- repair of
bone marrow stem cells for, 341
stem cells in, A54
tissue engineering and, A54
- Extracellular signal-regulated kinases (ERK-1/2): *see also* Raf/MEK/ERK pathway; Ras/Raf/ERK pathway.
activation by mechanical stress, A424
angiotensin II activation of, A80
Bcl-2 activation of, protein kinase C in, A456
muscarinic receptor regulation of, A429
regulators and effectors of activation, in hippocampal neurons, A430
signalling pathways of, interactive regulation of by muscarinic receptor and β_2 -adrenoceptor, A426
sphingosine 1-phosphate and lysophosphatidic acid activation of, lipid phosphate phosphatases in, A279
vascular smooth muscle cellular proliferation and, A296
- Eye: *see also* Lens entries.
collagen hydroxyproline in, A362
- F₀dF₁ ATP synthase
for formate hydrogenlyase pathway in *Escherichia coli*, A187
 γ - η subunit complex in, mechanical rotation of, A188
- Fab antibody, for AMPA receptor analysis and isolation, A394
- F-actin, of hepatocytes, G protein and store-operated Ca²⁺ channel regulation of, A387
- Factor Xa inhibitors, clot formation and, A436
- FAD, binding site for on glucose oxidase, hydrophobic ligand interaction with, A418
- Faeces, *Cryptosporidium* from, A483
- Familial Alzheimer's disease
molecular mechanisms of, A129
presenilin-1 cleavage in, A305
- Familial amyloidotic polyneuropathy, transthyretin stability in, A412
- Familial British dementia, fibrillogenic ABri peptide in, A76
conformation and toxicity of, A305
- Familial hypertrophic cardiomyopathy, A104
- Fanconi anaemia, functional pathway in, A167
- Farfantepenaeus notialis*, microsatellites in, A182
- Farnesyl diphosphate metabolism, in squalstatin-treated tobacco cells, 794
- Farnesyl diphosphate synthetase, in yeast, proteolytic degradation of, A327
- Fas, phospholipase D activation induced by
Ras GTPase in, A359
tyrosine phosphorylation and, A357
- Fas binding PDZ domain, in protein tyrosine phosphatase FAP-1, peptide binding studies of, A429
- Fasting, homocysteine level after, riboflavin supplementation and, A26
- Fat, dietary, effect on chylomicron remnant binding and internalisation, by hepatocytes, A342
- Fat cells: *see* Adipocyte(s).
- Fatty acid(s)
in *Blumeria graminis* conidia, ageing and, 875
cyclopropanoic, in *Litchi chinensis*, 578
free: *see* Free fatty acids.
in neem seeds, from India, 880
polyunsaturated: *see* Polyunsaturated fatty acid(s).
in *Ribes nigrum* leaves, 583
- Fatty acid α - and β -oxidation, in lipid metabolism in peroxisomes, 141
- Fatty acid β -oxidation, in *Arabidopsis* seed germination, 95
- Fatty acid biosynthesis, 567
acetyl-CoA sources and carboxylation in
in *Brassica napus* embryos, 598
in Brassicaceae oilseeds, 595
cytosolic, molecular biology of, 593
molecular biology of, 591
- control of
carbon supply in, 667, 672
plastidial transporters in, 665
in sunflowers, 669
- desaturation in, 632
in *Aquilegia vulgaris*, 641
in *Arachis hypogaea*, 625
genetic mutagenesis in, 636
induction by transduction of low temperature signals, 628
from *Kochia scoparia*, 623
low temperature signals in, 628
in petunia seed oil linoleic acid, 631
in sphingolipids, 638
- elongation in
enzymes specific for polyunsaturated fatty acids in, 654, 658
in maize root, 647
by pathway engineering, 661
pebulate inhibition of, safener dichloromid counteraction of, 650
during rapeseed development, 645
thiocarbamate herbicide inhibition of, 650
wax-specific condensing enzyme in, 651
- fatty acid synthase in
acyl carrier protein inhibition and, 607
antisense, 613
catalysis of, 601
genetics of, 617
from leek epidermis, 610
from oil palm, 619
protein interactions of, 615
in *Moritella marina*, 943
- Fatty acid breakdown
acyl-CoA dehydrogenase activity in, in peas, during germination and initial growth, 760
in *Arabidopsis*, lipid mobilisation disruption in, 762
Arabidopsis acyl-CoA oxidase in, 755
in *Brassica napus* embryos, 753
in pea tissue, mitochondria and peroxisomes in, 757
in rice, α -hydroperoxide-forming enzyme in, 765
- Fatty acid cleaving, by hydroperoxide, in potato tubers, 853
- ω -3 Fatty acid desaturases, from plants and animals, 632
- Fatty acid elongase, specific for polyunsaturated fatty acids, 654
- Fatty acid epoxigenase, inhibition of polyunsaturated fatty acid accumulation in plants with, 940
- Fatty acid esters, ascorbyl, lipase-catalysed synthesis of, A323
- Fatty acid ethyl esters, cellular changes induced by, A372
- Fatty acid metabolism, of plasma and hepatic lipids, in type 2 diabetes, melatonin and, A196
- Fatty acid methyl ester, elongation enzymes specific for, 658
- Fatty acid synthase II, protein interactions of, 615
- Fatty acid-binding proteins, in zebrafish, A238
- Fatty acids, long chain, transport-related proteins of, PPAR-regulated expression of, A393
- Fatty alcohol, thermostable lipase genes induced by, in *Pseudomonas* strains, A193
- FCCP: *see* Carbonyl cyanide P-(trifluoromethoxy)phenylhydrazone.
- FdURD, leukaemia cells resistant to, cellular folate/folate enzyme levels and, A200
- Fe²⁺, in $\text{A}\beta$ 1-40-induced cerebral neuron signal transduction and cytotoxicity induced, A431
- Fe65 protein, in Alzheimer's disease, A37
- Fenretinide, apoptosis-inducing effect of, A92
- Fenugreek
cytotoxicity of, on fibroblast cells, A204
reversal of diabetes complications by, A154
- Fenvalerate, effect on respiratory protein complexes of cardiac mitochondria, A191
- Fertiliser, plant utilisation of, A98
- Fever, hypothalamic uncoupling protein 2 during, A156
- FGF: *see* Fibroblast growth factor.
- FGF-7 keratinocyte growth factor, LNCaP cell proliferation and, A340
- Fibrillar polymers, tau aggregation in, A129
- Fibrillogenesis, protein, sticky-end assembly of peptide fibre and, A74
- Fibrillogenic ABri peptide, in familial British dementia, A76
conformation and toxicity of, A305
- Fibrin, DD-dimer fragment of, polymerisation site in, A419
- Fibrinogen, in liver cells, IL-6 induction of, SAF and, A241
- Fibroblast(s)
collagen cell contraction mediated by, inhibition of by activation of diacylglycerol-dependent protein kinase C, A85
fenugreek cytotoxicity on, A204
gingival, MMP-1 inhibitor gene in, Stat3/p65 heterodimer regulation of, A162
mitogenesis of, lysophosphatidic acid and sphingosine 1-phosphate stimulation of, A357
nuclear factor- κ B/RelA activation in, MAP kinase signalling pathway in, A295
- Fibroblast growth factor, basic, as survival factor from apoptosis, A445
- Fibroblast growth factor-binding ciliary membrane glycoproteins, from *Tetrahymena thermophila*, purification of, A268
- Fibroblast growth factor-fibroblast growth factor receptor-heparin complex, crystal structure of, A280
- Fibronectins, in bovine plasma, A361
- Fibrosarcoma cells, methylchoranthrene-induced, p53 gene mutation sites in, A180
- Fig, stem shoots of, cryopreservation of, A290
- Filamin C, myotilin interaction with, A300
- Firefly luciferase, monoclonal antibody-assisted refolding of, A414
- Fission yeast, response to stress-activated MAP kinase in, A108
- FK506-binding protein, in Alzheimer's disease, A38
- Flagellar structure, in trypanosomes, A216, A218, A352
- Flagellar targeting, of trypanosome proteins, A478
- Flavin-containing monooxygenase 3 gene, sequence variation in, A435
- Flavonoids, dietary, cancer prevention and, 16
- Flavoprotein, from *Escherichia coli*, crystallographic study of, A420

- Flavodoxin, from *Desulfovibrio gigas*, recombinant expression of, A170
- flaA*, in flagellar expression in *Campylobacter jejuni*, A178
- Fluorescence
Maillard protein, inhibition of, A204
two-photon excitation of, in biomolecule detection, 70
- Fluoride, interaction with KCN-cytochrome *d* complex in *Salmonella typhimurum*, A189
- FN polypeptides, plasmids of, in *Escherichia coli*, A174
- Foam cells, cholesterol esterification in, A342
- Focal adhesion kinase, anti-apoptotic role of, A383
- Foecal elastase, pancreatic, in HCV-associated liver disease, A153
- Foetal membrane, chorion laeve tissues of, apoptosis of at normal parturition time, A381
- Foetus
dioxin exposure of, and Sp1 development in brain, A345
hypoxia in, AChE in cortex and striatum after, A345
lung epithelial cells in, in rat, A438
- Folate, in methionine-dependent colon tumour, A224
- Folate and folate enzyme levels, cellular, in leukaemia cells resistant to amethopterin and FdURD, A200
- Food, lysine concentration in, biosensor detection of, A44
- Food pathogens, piezoelectric immunosensor detection of, A44
- Foot-and-mouth disease, protection against, A258
- Force fields, substitution matrices based on, A146
- Formamidopyrimidine, from *Escherichia coli*
DNA interaction with, A164
ethenoadenine derivative repair by, A168
- Formate hydrogenlyase pathway, in *Escherichia coli*, F₀dF₁ ATP synthase for, A187
- Fourier transform infrared spectroscopy on CO-bound cytochrome *c* oxidase, A189
linking data from to structure, in cinnamoylchymotrypsin, A416
of membrane proteins, A187
- 14-3-3 proteins, 13-lipoxygenase association with, phosphorylation dependence of, 834
- 4E-BP1 regulation, in cardiac myocytes, A432
- FoxM1, cell cycle progression facilitated by, cyclin expression and, A370, A372
- Fps1p glycerol exporter, in *Saccharomyces cerevisiae*, A91
- Francisella tularensis*, EPSP synthase from, A332
- Free fatty acids, structure-activity of, aspartate transport and, A38
- Free radicals
ethanolamine plasmalogen protection of liposomal membrane cholesterol against, A398
H₂O₂-induced, in methaemoglobin and metmyoglobin, A78
metabolism of, polyunsaturated fatty acids and *N*-acetylglucosamine effects on, in potato, 865
products of, in myocardial insufficiency, A159
- Frizzled-3, gene structure and expression of, A170
- Fructose-1,6-bisphosphatase, introduction into tryptophan reporter group, A424
- Fructose-1,6-bisphosphate aldolase, structure and dynamics of, A70
- Fructose metabolism, in liver, A25
- Fructose phosphates, hepatic, regulation of mutated glucokinase by, A192
- Frutalin, refolding of, A409
- FTDP-17, tau mutations in, A15, A37
- FTIR: see Fourier transform infrared spectroscopy.
- Fucose/glucose/galactose H⁺ symporter family, in *Escherichia coli*, A89
- α -6-Fucosyltransferase, release from platelets, neutrophils and, A335
- Fugu rubripes*, as vertebrate reference genome, A102
- Fungal diseases
soybean lipids and, 917
wheat seedling acyl lipids and, 920
- Fungicide, sunflower lipid transfer proteins as, A405
- Fungus
extracellular phytase from, A42
lectins from, A40
oleaginous, phosphatidic acid and phosphatidylcholine intracellular transport into lipid bodies in, 723
plasma membrane of, G protein-coupled receptors for progesterone in, A268
roots of, phosphate transport in, A56
white-rot, exposure of to heavy metals, GSH level after, A24
- 6-Furfuryl-adenine (kinetin), DNA template properties and, A163
- Fusarium moniliforme*, serine carboxypeptidase from, cloning and sequencing of, A324
- Fusarium* spp., isozyme patterns of, A363
- G protein
glutamate receptor binding to, in Alzheimer's diseased brain, A35
in nucleotide-stimulated phospholipase D activity in hepatic stellate cells, A265
palmitoylated, membrane affinity of, A448
in regulation of hepatocyte F-actin and endoplasmic reticulum, A387
signalling by, in Alzheimer's disease, A17
- G protein pathways, in endothelial cell responses mediated by thrombin, A471
- G protein-coupled receptors
agonist-induced trafficking of, A59
endothelin, A75
processes mediated by in yeast, biological effect assays for, A268
for progesterone, in plasma membrane of fungus, A268
visualising signal initiation and termination by, A137
- Galactolipase activity, in *Vigna unguiculata* leaves, drought stress and, 779
- Galactose oxidase
domain I for, catalytic activity and, A72
heterologous expression hosts for, A71
precursor of, crystal structure of, A77
substrate binding to, A71
- α -Galactosidase II, in papaya fruit softening, A456
- Galectin 3, hepatic, in recovery from carbon tetrachloride-induced injury, A276
- Gallbladder cancer, chronic *Salmonella typhi* infection and, A225
- Gammaherpesvirus infection, green fluorescent protein in study of, A213
- Garlic lectin, tumour cell growth inhibited by, A403
- GARP: see Glutamic acid/alanine-rich protein.
- GART-SON-DONSON locus, genomic organisation of, A240
- Gastric cancer, antibody against, immunoglobulin repertoire in, A163
- Gastric epithelial cells
 β -defensin induction by IL-1 and *Helicobacter pylori* in, A493
glycine-extended and amidated gastrins and, A294
- Gastric juice, bacteria killing by, A385
- Gastric mucosa
mucin secretion in, protease-activated receptor-2 in, A351
nitric oxide inhibition of apoptosis in, A375
- Gastrointestinal tract, molecular expression of p-glycoprotein, multidrug resistance-associated protein, and c-MOAT in, A91
- GCNS, histone acetyltransferase domains of, A106
- G-CSF: see Granulocyte colony-stimulating factor.
- GDNF: see Glial cell line-derived neurotrophic factor.
- Gel, two-dimensional: see Two-dimensional gel *entries*.
- Gel-immobilised compounds, microarrays of, A125
- Gene copy numbers, quantitation of, A152
- Gene function, determination by inducible RNA interference, A476
- Gene libraries, as glycerol stocks, A365
- Gene nomenclature, A149
- Gene silencing techniques, inverted-repeat DNA as, 925
in cotton seed oil, 927
- Gene targeting, by nuclear receptor405s
- Gene therapy, for Duchenne muscular dystrophy, A299
- Gene transfer
horizontal, vertebrate HtrA serine protease family as example of, A40
of SAP-1, cell death induced by, Akt/protein kinase B in, A433
- General practitioner, in imparting clinical science to layman, A1
- Genetic code, composition of, A419
- Genetic disease, human, from genomes to populations in, A103
- Genetic markers, of myocardial infarction, A299
- Genetic sequences, comparison of, Smith-Waterman alignment in, A146
- Genome(s)
analysis of oligonucleotides in, A149
of biological systems, A122
decoding of, macromolecular mechanics of, A105
duplication and evolution of, A23
human, decoding of, A97
of microbials, A121
mutations in, detection by MALDI-MS, A150
protein function and, A120
sequences of, protein structure and, A23
structures and functions of, CATH domain database in, 269
vertebrate
ancient octaploidy in, 259
octaploidy in, A23
- Genome sequence analysis, organism uptake and efflux capabilities based on, A65
- Genomics
functional
in fatty acid synthesis, 567
of plants, A131
protein structure in, A125
- Genotoxic stress, poly(ADPR)polymerase and, in germinal cells, A293
- Genotoxicity

- of phytochemicals, A7
 phytochemicals and, 22
 Geranium, preparation from, in inhibition of influenza virus-specific macromolecular synthesis, A439
 Germinal cells, poly(ADPR)polymerase and genotoxic stress in, A293
 GH receptors: *see* Growth hormone receptors.
Giardia lamblia, DT-diaphorase of, A483
 Gibberellin signalling, in rice, protein phosphorylation and, A276
 Gingival fibroblasts, MMP-1 inhibitor gene in, Stat3/p65 heterodimer regulation of, A162
 GKRP, hepatic, regulation of mutated glucokinase by, A192
 Glandular epithelial cells, endometrial, SV40 T antigen-immortalised, oestradiol regulation of, A296
 Glial cell death, neopterin and, A346
 Glial cell line-derived neurotrophic factor, tyrosine hydroxylase expression induced by, A239
 Glial proteins
 protective peptides derived from, A61
 protective peptides from, 452
 Glioblastoma cells, growth inhibition by LY294002 in, A226
 Glioma cells, dipeptidyl peptidase I activity in, differentiation rate and status and, A295
 Glioma C6 cells, phospholipase D stimulation in, by sphingosine, imipramine, and propranolol, A445
 α -Globin genes, evolution of, in cattle and river buffalo, A186
 Glomerular mesangial cells, matrix metalloproteinases secretion by, A170
 Glomerulonephritis, autoimmune, pathogenesis of, myeloperoxidase in, A306
 Glucagon
 homocysteine metabolism and, A460
 physiological function of, A206
 β -Glucanases, from *Periplaneta americana* midgut, A310
 Glucocorticoid(s)
 aromatase regulation by, A334
 effects on chromatin structure, A175
 Glucocorticoid receptors
 chromatin remodelling factor recruitment by, during gene activation, 410
 N-terminal domain of, chromatin remodelling and, A64
 Glucogenic hormones, in diabetes mellitus, khat ingestion and, A156
 Glucokinase
 in hepatic glucose metabolism, A100
 impaired translocation of, in type 2 diabetes hepatocytes, A198
 mutation in, effect on regulation by liver GKRP and fructose phosphates, A192
 protein regulation of, A198
 Glucosamine-6-phosphate synthase, of *Candida albicans*, A315
 Glucose
 in glycerol metabolism by *Lactobacillus reuteri*, A330
 leptin and lipogenic transcription regulation by, A177
 Glucose concentration, of cyanobacteria, membrane lipids and pigment composition and, A398
 Glucose metabolism
 hepatic, glucokinase in, A100
 during recovery of yeast cells from hydrogen peroxide stress, A294
 Glucose oxidase, FAD binding site of, hydrophobic ligand interaction with, A418
 Glucose tolerance test, in lactation, serum ionised magnesium in, A26
 Glucose transporters: *see also* GLUT entries.
 translocation and activation of, insulin-stimulated signalling pathways in regulation of, A447
 Glucose uptake, by erythrocytes, in diabetes, A161
 Glucose-galactose malabsorption, congenital, Na⁺/glucose cotransporter genetic mutation in, A391
 Glucose-6-phosphate dehydrogenase
 analysis of protein structure and function, A229
 gene mutation in, expression in *Saccharomyces cerevisiae*, A300
 in plants, properties of, A406
 β -Glucosidase
 catalytic mechanism and activity of, histidine 169 in, A328
 from *Sporotrichum thermophile*, A320
 α -Glucosidases, in midgut of *Tenebrio molitor*, A321
 Glucosylceramide synthesis, compartmentation and topology of, 748
 Glucuronate conjugates, release of, multidrug resistance proteins and, A6
 GLUT: *see also* Glucose transporters.
 GLUT1, elevation of, synchronised type II hexokinase transcription level with, in tumour cells, A197
 GLUT2 gene, tissue-specific expression of, hepatocyte nuclear factors and, A176
 GLUT2 promoter, PPAR- γ response elements in, A178
 Glutamate
 in brain, dichloroacetate effect on, in cerebral malaria, A455
 functions of, A49
 keratinocyte phenotype regulation by, A82
 as neurotransmitter, 297
 Glutamate dehydrogenase, from *Clostridium symbiosum*, A73
 Glutamate receptors
 in bone cells, A390, A391
 G protein binding to, in Alzheimer's diseased brain, A35
 Glutamate synthase, modular architecture of, A123
 Glutamate/aspartate transporter, in heart, A391
 Glutamic acid/alanine-rich protein (GARP), in insect stage of trypanosomes, A475
 Glutamic acids, helix stabilisation by, in electrostatic interactions, A205
 Glutaminase pseudogene, in breast cancer cells, A184
 Glutamine, extracellular, in immune response to yeast infection, A255
 Glutamine repeats, in mutations of myoglobin, A307
 Glutamine synthetase, gene transcription of, CAAT/enhancer-binding protein and, A235
 Glutamine-metabolising enzymes, in *Theileria parva*-infected lymphoblastoid cells, A195
 Glutaraldehyde, L-lysine α -oxidase conjugation using, A219
 Glutathione
 level in white-rot fungus, after exposure to heavy metals, A24
 reduced, astrocytoma cell line release and preservation of, A92
 Glutathione conjugate(s), release of, multidrug resistance proteins and, A6
 Glutathione derivatives, antiparasitic activity of, A477
 Glutathione extrusion, and mitochondrial pathway of apoptotic signalling, 56
 Glutathione peroxidase-like activity, of caeruloplasmin, A321
 Glutathione reductase, in plants under HF influence, A402
 Glutathione S-transferase(s)
 in cancer prevention, A5
 cutaneous basal cell carcinoma and, A4
 induction by chemopreventive antioxidants, 33
 interaction dynamics of, A5
 isoforms of, in seminiferous tubular fluid, A316
 Nrf2 transcription factor and expression of, in chemoprevention, 33
 in protein tyrosine phosphatase FAP-1, peptide binding studies of, A429
 Glutathione S-transferase fusion proteins, purification from large sample volume, A261
 Glutathione S-transferase P1, α -2 loop of, as redox sensor, A5
 Glutathione S-transferase-RAMP1 protein, in study of CGRP receptor, A265
 GLV coat protein, in grapevine cultures, polymorphism analysis of, A212
gyl, cloning of, in complex lipid biosynthesis, 675
 Glycaemia, in diabetes patients, effect on peripheral artery disease and mortality, A155
 Glycated proteins, lymphoid cell adhesion to, A449
 Glyceraldehyde-3-phosphate dehydrogenase, of *Taenia solium*, A313
 Glycerol, oxidation to dihydroxyacetone, in *Bacillus stearothermophilus*, A331
 Glycerol metabolism, by *Lactobacillus reuteri*, glucose and, A330
 Glycerol stocks, gene libraries as, A365
 Glycerolipid composition, of maize and rice tissues, 586
 Glycerol-3-phosphate acyltransferase to enhance seed oil content, 958
 in plants, structure selectivity of, 677
 in squash, mutagenesis of, to produce enzyme with altered substrate selectivity, 680
 in wheat, altered, morphological and metabolic changes in, 682
 Glycine cleavage system T protein, in *Escherichia coli*, A421
 Glycine-extended gastrins, effect on gastric epithelial cells, A294
 Glycoconjugates, surface, in *Leishmania* pathogenicity, A117
 Glycodelin A, glycosylation of, A335
 Glycoenzymes, folding and activity of, lectins and, A124
 Glycogen
 biosynthesis of, A99
 in liver, aggregation of β -particles into α -particles in, A336
 Glycogen kinase-3 α promoter, molecular cloning and characterisation of, A306
 Glycogen synthase kinase-3, in regulation of initiation factor 2B activity in IGF-I-stimulated neuronal cells, A340
 Glycogen synthase kinase-3 β
 ninein interaction with, A427
 protein kinase A pathway induction of, A305
 Glycogen synthase kinase-3 inhibitors, in protection of neurons from phosphatidylinositol 3-kinase-mediated apoptosis, A427

- Glycogen turnover, myocardial, in hypertrophic cardiomyopathy, A161
- Glycolipid synthesis, redox regulation of, A398
- Glycoproteins
 from avian egg whites, *Pseudomonas aeruginosa* lectin inhibition by, A231
 folding of, in endoplasmic reticulum of yeast and protozoa, A124
 insulin/FGF-binding ciliary membrane, from *Tetrahymena thermophila*, purification of, A268
 surface, from Trypanosomes, A74
 β -Glycosidase, digestive, in insect, A315
 Glycosomes, in pistachio seeds, A361
 Glycosylated prolactin, biochemical characterisation of, A335
- Glycosylation
 antibody molecule stability and function and, A75
 N-linked, thromboxane A₂ receptor and, A34
 of N-linked proteins, in endoplasmic reticulum, A123
 of prion protein, A80
 Glycosylglycerides, biosynthesis of, 729, 732, 738, 740
- Glycosylphosphatidylinositol anchors, protozoan-derived, pro-inflammatory activity of, A111
- Glycosylphosphatidylinositol-anchored proteins: *see* Protein(s), GPI-anchored.
- Goitre, endemic, in Sudan, A159
- Golgi, transport from endoplasmic reticulum to, in plants, A59, 505
- Golgi localisation domain, novel, A471
- Gonadal function, neuropeptidase regulation of, A60, 430
- gp130 cytokines, receptor recognition by, A109
- GPAT: *see* Glycerol-3-phosphate-1-acyltransferase.
- Grain, germinating, of barley, peptide transport in, A79
- Gramicidin, aggregate formed by, biochemical activities of, A348
- Gramicidin S-synthetase, substrate specificity of, A206
- Graminicides, in wheat, acyl hydrolase activity and, 777
- Gram-negative bacteria, induction of proinflammatory cytokines by, A490
- Granulocyte colony-stimulating factor, selective induction of in macrophages, cell surface protein associated with, A271
- Granulocyte colony-stimulating factor receptors, phosphorylated tyrosine of, proteins interacting with, A461
- Granulocyte macrophage colony-stimulating factor immunomodulatory/immunostimulatory effects of, in vertebrates, A492
- TGF- β in regulation of, in bladder carcinoma, A341
- Granulocytic differentiation, of promyelocytic HL60 cells, A174
- Grapevine, GLV coat protein in, polymorphism analysis of, A212
- Green fluorescent protein
 in analysis of trypanosome genetic exchange, A479
 GPI-linked, expression on hamster cell surfaces, A396
 mutation of, enhanced sensitivity of at 488nm excitation, A263
 nuclear translocation with nuclear factor- κ B, A274
 in study of gammaherpesvirus infection, A213
- GroEL, in protein folding, A70
- GroEL/GroES
 annealing of kinetically-trapped assembly intermediate by, A410
 compensation for Δ clpB mutation defect by, A412
 dissociation/reassociation cycles promoted by, in assembly of $\alpha_2\beta_2$ proteins, A450
 reactivation of thermally denatured *Escherichia coli* FBP aldolase by, A411
- Growth
 cell cycle re-entry regulation by, A3
 regulation by recombinant muscarinic acetylcholine, A426
- Growth and differentiation factor-5, recombinant human, inductive activity of, 362
- Growth factor(s)
 cell cycle re-entry regulation by, 233
 extracellular matrix synergy with in bone and cartilage repair, A56
 in control of trophoblast invasion, 199
 signal transduction pathway for, A273
- Growth factor receptors, tyrosine kinase activation on, in sprouty protein targeting of membrane ruffle, A275
- Growth hormone
 in adipocyte studies, A9, 126
 anti-obesity peptides from, A421
 correlation with prostate specific antigen and IGF-1, in infertile male, A298
 in mammary gland, A41
 recombinant bovine, peptidylglycine monooxygenase activity of, A40
- Growth hormone receptors, genetic structure of, in children with growth disorders, A279
- Growth hormone/placental lactogen splicing variant, local growth regulation by, A297
- Growth hormone-releasing factor, in muscle, A472
- Growth pH, of *Escherichia coli*, K⁺ uptake and, A395
- GS element, proteins encoded by, in *Mycobacterium avium*, A76, A234
- GSH: *see* Glutathione.
- GST: *see* Glutathione S-transferase.
- GTPases, small
 cell proliferation and, A115
 signal transduction and physiological roles of, A137
- Gtr1 protein
 phosphate uptake and, in *Saccharomyces cerevisiae*, A199
 from *Saccharomyces cerevisiae*, A392
- Guanylate cyclase activating protein 1, genetic mutation of, retinal degeneration and, A380
- Guanylyl cyclase(s), ANP- and CNP-sensitive, in airway smooth muscle, A265
- Guard cells, stomatal
 calcium signalling in, A57
 Ca²⁺ signalling in, 476
- Gullet chemical burn, connective tissue metabolism after, A159
- H⁺ transport, mitochondrial, barrier function of membrane-bound proteins in, A462
- H⁺-ATPase inhibition, Cu²⁺-induced, in plasmalemma, A389
- H/K-ATPase
 phosphoenzyme formation in, acid-labile bound ATP before, A191
 reversible phosphorylation of Tyr and Ser residues in, A430
- H107 monoclonal antibody, peptide binders to, A41
- Haem domain, of inducible nitric-oxide synthase, binding of 1400W to, A316
- Haematin peroxidases, in body's self-defence, A329
- Haematopoietic cells
 measuring length of telomere in, A3
 measuring telomere length in, 245
- Haemin/iron transport systems, of *Porphyromonas gingivalis*, A183
- Haemochromatosis protein, hereditary, apical iron uptake and, A160
- Haemoglobin, perfused liver free of, in analysis of metabolic control, 109
- Haemoglobin A, conformational changes in, A412
- Haemoglobin catabolism, in *Plasmodium falciparum*, as target of antimalarial drugs, A437
- Haemoglobin I, genotypes of, A175
- Haemoglobin-oxygen system, intermediaries in, A326
- Haemolysis, chlorpromazine and, A396
- Haemolytic anaemia, glucose-6-phosphate dehydrogenase gene mutation in, expression in *Saccharomyces cerevisiae*, A300
- Haemophilic, hepatitis C virus genotyping in, A298
- Haemostasis, molecular evolution of, A185
- Hageman factor, inhibitory properties of corn trypsin inhibitor on, A362
- β -Hairpin, as folding initiation site in BPTI, A414
- Halimeda incrassata* aqueous extracts, neuroprotective effects of, A344
- Haloacid dehalogenase, catalytic reaction of, cyanoalanine residue in, A452
- Haloalkane dehalogenase gene *dhaA*, from *Rhodococcus erythropolis* Y2, expression in *Escherichia coli*, A153
- Halofantrine, ahaptoglobinaemia induced by, A201
- Halophily, in black yeast, A436, A470
- Halorhodopsin photocycle, time-resolved vibrational spectroscopy of, A188
- Hansenula saturnus*, ACCD from, resolution structure of, A423
- Haptoglobin, phenotypes of, A201
- Haptoglobin biosynthesis, by all-trans retinoic acid, in THP-1 cells, A255
- [³H]cGMP binding, Alzheimer's diseased brain, A38
- Hcs77, *Saccharomyces cerevisiae* cell integrity signalling activated by, through Rom2, A281
- HCV: *see* Hepatitis C virus.
- Healthcare delivery, molecular medicine and population genetics in, A99
- Heart: *see also* Cardiac entries; Coronary artery disease; Heart; Myocardium.
 cytochrome c reductase, reaction mechanism of, A190
 glutamate/aspartate transporter expression and function in, A391
 mammalian, nucleoside transporters in, A93
 mitochondria of, respiratory protein complexes of, fenvalerate alterations of, A191
 perfused
 in studies of lipid metabolism, 113
 in substrate metabolism studies, A9
 somatostatin receptor subtype in, A95
 during stress, age-related alteration of myofibril isoenzyme creatine kinase from, A155
 zinc finger genes from, A176
- Heart transplantation, acute rejection of, proteomic analysis of, A264
- Heat acclimation, after thyroidectomy, hepatic pyruvate kinase activity in, A194
- Heat labile toxin, from *Escherichia coli*, immuno-modulatory mechanisms of, A31
- Heat lability, of alkaline phosphatase, high catalytic efficiency and, A308
- Heat shock: *see also* Hsp entries.

- prion protein expression modulated by, A347
- Heat shock *dnaK*, at different temperatures, A178
- Heat shock operon *groE*, of marine bacterium, A250
- Heat shock protection, from baculovirus-expressed recombinant α B-crystallin, A73
- Heat stress, of plasmalemma ion channels, A393
- Heat stress transcription factor HsfA2, in tomato, cytoplasmic chaperone complexes of, nuclear interaction with, A351
- Heavy metals
lipids and
in bryophytes and lichens, 910
in pepper, 907
in wheat, 905
tolerance of, calcium channels and, A56
white-rot fungi exposure to, GSH level after, A24
- Helianthus annuus*, Δ^6 -sphingolipid desaturase from, 638
- α -Helical peptide, residue substitutions in, energetic effects of, A87
- Helicase, of *Escherichia coli*, *E. coli* primase stimulated by, A248
- Helices, transmembrane, hydrophobic moment correlation with hydrophobicity in, A148
- α -Helices
knobs-into-holes packing of, A423
local propensity for different locations of, A147
non-polar/polar side chain interactions in, A72
structure and stability of, in protein folding, A52, A70
- Helicobacter pylori*
 β -defensin induction by, in gastric epithelial cells, A493
transfer of restriction-modification genes in, A185
VacA toxin from, cell trafficking alterations from, A117
- Helix stabilisation, by glutamic acids, in electrostatic interactions, A205
- Heme detoxification, halofanthine inhibition of, A439
- Heme detoxification system, in *Plasmodium falciparum*, as target of antimalarial drugs, A437
- Heme-heme interactions, in cytochrome *bd* oxidase, A448
- Heparan sulphate, IL-12 binding to, A492
- Heparin
complex with FGF and FGF receptor, crystal structure of, A280
IL-12 binding to, A492
Heparin binding domain, of amyloid precursor protein, crystal structure of, A447
- Hepatitis B infection, independence of core promoter mutations, viral replication and liver damage in, A211
- Hepatitis B virus, pregenomic RNA mutations in, A446
- Hepatitis C virus
chronic, morphological and clinical aspects of, A154
genotyping of, in haemophiliacs, A298
inferred species diversities of, A42
liver disease associated with, pancreatic foecal elastase in, A153
- Hepatocarcinogenesis
peroxisome proliferator diethylhexylphthalate induction of, A236
tamoxifen action in, A225
- Hepatocarcinoma cells, IL-6 regulation of β -catenin in, A296
- Hepatocyte(s): *see also* Liver.
apoptosis of, induced by ischaemia and reperfusion, A371
chylomicron remnant binding and internalisation by, type of dietary fat and, A342
couplets of, A10, 136
cytokine receptor superfamily signalling in, A278
DNA in, 8-oxoguanine and hypoxanthine excision from, free radical overgeneration and, A165
F-actin and endoplasmic reticulum in, G protein and store-operated Ca^{2+} channel regulation of, A387
gamma fibrinogen gene in, IL-6 induction of, SAF and, A241
impaired glucokinase translocation in, in type 2 diabetes, A198
isolated
intact, A9
preparation of, 131
in neonatal sepsis, A26
nitric-oxide synthase gene promoter binding to diethiol residue on nuclear factor- κ B in, A340
in normal/cirrhotic livers, nuclear matrix protein in, A298
nuclear matrix of, C/EBP- β association with, in acute phase response, A289
PPAR- α -mediated responses in, A259
tert-butyl hydroperoxide-induced lipid signalling in, phospholipase A₂, C, and D in, A282
- Hepatocyte growth factor- β , genetic cloning of, A338
- Hepatocyte nuclear factor
salinity induction of, in gill of euryhaline teleost, A341
and tissue-specific expression of GLUT2 gene, A176
- Hepatoma cells
perfluorooctanoic acid-induced apoptosis of, A450
transfection of pemt2 gene into, Ras/MAP kinase signal transduction pathway and, A278
- Hereditary melanoma, circulating tumour cell detection in, A224
- Heregulin, retinoid synergy with, in inducing branching morphogenesis of breast cancer cells, A455
- Herpesvirus epitope, antibody-induced conformational modification of, A211
- Hevea brasiliensis*, HMG-CoA synthase genes in, A451
- Hexokinase type II, transcription level of, elevation of synchronised with GLUT1 elevation, in tumour cells, A197
- β -Hexosaminidase
in RBL-2H3 cells, regulation of, A200
 α -subunit genetic mutation in, A440
- Hexosaminidase α subunit gene, mutation of, in heterozygote parents, A307
- Hexose transport, in erythrocytes, A388
- Hha1* methyltransferase
catalytic loop movements of, A464
DNA base flipping by, A468
- hHR23, p53 stability and transcriptional activity and, A169
- High altitude physical performance, ACE genetic polymorphism and, A230
- High density lipoprotein receptor, channel formation and, A265
- Hippocampal neurons, GABA signalling in, p130 in, A358
- Hippocampus
left handed Z-DNA in, in Alzheimer's disease, A454
- neurotrophin-induced neural activity in, A346
- regulators and effectors of ERK and MAP kinase activation in, A430
- Hirschsprung disease, receptor tyrosine kinase genetics in, A302
- Histamine, Ca^{2+} release induced by, in urinary bladder, A281
- Histidine decarboxylase, catalytic mechanism of, A329
- Histone(s)
acetylation of
by organosulphur compounds, A250
in phosphate-regulated *PHO5* gene expression, A451
H1, helix-turn motif of, structure and DNA interaction of, A253
H3, phosphorylation of, in cardiac myocytes after hyperosmotic shock, A429
nuclear transglutaminase-modified, during starfish embryogenesis, A249
processing of in *Saccharomyces cerevisiae*, A41
- Histone acetyltransferase, in elongating form of polymerase II, A62
- Histone acetyltransferase domains, as transcriptional coactivators, A106
- Histone deacetylase, from *Drosophila melanogaster*, A245
- Histone deacetylase complexes, mammalian, site specificity and biochemical characterisation of, A253
- Histone deacetylase Hos3p, of yeast, structure-function studies of, A250
- Histone deacetylase inhibitors, effect on AML1 gene overexpression, A221
- HisTrap, in purification of poly(His)-tagged recombinant proteins, A261
- HIV: *see* Human immunodeficiency virus.
- HL-60 differentiation, HLDF, derivation from *rpS21* gene during, A238
- HLA-G
in placenta, A19, 208
in pre-eclampsia, A20, A47, 215
HLDF, derivation from *rpS21* gene, during HL-60 cellular differentiation, A238
- HMG-CoA synthase genes: *see* 3-Hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) synthase genes.
- HNF: *see* Hepatocyte nuclear factor.
- HnRNP D-like protein JKTBP, molecular characterisation of, A356
- hnRNP type A/B, recognition of single-strand telomeric repeated motif d(CCCTAA)_n by, A251
- Holliday junction resolving enzyme, bacteriophage T7 endonuclease I as, A96
- Homing endonuclease PI-SceI, catalytic centres of, A332
- Homochirality, RNA and CO₂ fixation in, A96
- Homocysteine
effect on TNF- α , in monocytes, A25
fasting, riboflavin supplementation and, A26
- Homocysteine metabolism
glucagon treatment and, A460
methylation demand and control of, A470
- Hormonal signals, intracellular transfer of, membrane lipids in, A271
- Horse, as leishmaniasis host, A155
- Horseradish peroxidase, kinetic properties of, Ni²⁺ effects on, A310
- Hortaea wermecii*, halophily in, A436, A470
- Hsp60, soluble, in serum in atherosclerosis, A233
- Hsp70

- apoptosis inhibition by, downstream of cytochrome *c*, A378
- as chaperone, interdomain communication in, A51
- nuclear factor- κ B binding by, during apoptosis, A380
- in *Rhizopus nigricans*, A171
- from *Setaria digitata*, A444
- Hsp70/hsp70, resistance-specific induction in tomato, by *Ralstonia solanacearum*, A401
- Hsp70/hsp90, plasma membrane linked to, by dual DnaJ protein binding sites, A353
- Hsp90a, Stat1 and Stat3 regulation of, A274
- Hsp90b, p53-regulated expression of, A243
- Hsp105, casein kinase II phosphorylation of, A411
- HtrA serine protease family, vertebrate, horizontal gene transfer in, A40
- Human genome, decoding of, A97
- Human Genome Mapping Project Resource Centre, A68
- Human group C rotavirus, VP3 gene of, A213
- Human immunodeficiency virus: *see also* AIDS virus.
- drug for, γ -lactamase enzyme in, A75, A417
- reverse transcriptase of, A308
- Tat/TAR complex, novel drugs for, A436
- 3TC against, enhancement by depleting dCTP, A331
- Human immunodeficiency virus protease, low molecular weight, Biacor/mass spectrometry of, A365
- Human immunodeficiency virus-like lentivirus, in DeBrazza's monkeys, A212
- Human leukocyte antigens, peptides presented by, A119
- Human papillomavirus infection: *see* Papillomavirus infection.
- Huntingtin, nuclear receptor co-repressor interaction with, A83
- Huntington's disease
- molecular basis of, A125
- transcriptional regulation in, A304
- in transgenic mice, striatum of, A304
- HvPTR1 peptide transporter, in barley, role in germination and grain filling, A407
- Hydrogen peroxide
- cardiac myoblast apoptosis induced by, IGF-I in protection against, A276
- cellular necrosis induced by, poly(ADP-ribose)polymerase in, A383
- cytochrome *c* damage induced by, apoptosis and, A449
- free radicals induced by, in methaemoglobin and metmyoglobin, A78
- Hydrogen peroxide stress, in *Saccharomyces cerevisiae*, glucose metabolism and oxidised protein turnover during recovery from, A294
- Hydroperoxide, fatty acid-cleaving activities of, in potato tubers, 853
- α -Hydroperoxide-forming enzyme, in rice, molecular characterisation of, 765
- Hydroperoxide-induced lipid signalling, phospholipase A₂, C, and D in, in hepatocytes, A282
- Hydrophilic amino acids, evolutionary study of, A186
- Hydrophobicity
- depth-weighted insertion, for classification of fusion-promoting peptides, A148
- hydrophobic moment correlation of, for transmembrane helices, A148
- 2-Hydroxyadenine, base pairing of, A166
- Hydroxyamic acid derivatives, as inhibitors of bacterial peptide deformylase, A90
- Hydroxybutyrate dehydrogenase, mitochondrial, structure and function of, A320
- (9Z)-12-Hydroxy-9-dodecenoic acid, plant protein phosphorylation and, 870
- Hydroxy-fatty acids
- ω -hydroxylation of, by CYP94A1, 867
- production of, in *Arabidopsis* seeds, 947
- 3-Hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) synthase genes, in *Hevea brasiliensis*, A451
- 3 α -Hydroxysteroid dehydrogenase, repression of, in *Comamonas testosteroni*, A244
- 11 β -Hydroxysteroid dehydrogenase, purification and characterisation of, A329
- 5-Hydroxytryptamine: *see also* Serotonin.
- 4-Hydroxy-2-alkenals, formation in barley leaves, 850
- Hyperammonaemia, urea cycle enzyme deficiencies in, A325
- Hyperglucose, effect on phosphatidylinositol 3-kinase/Akt signalling pathway and oxidative damage, in hyperinsulinoma cells, A430
- Hyperosmotic shock, histone H3 phosphorylation in cardiac myocytes after, A429
- Hyperoxic pulmonary damage, cytochrome P450 monooxygenases in, A161
- Hypersensitive sites, optimal functioning of, sequences in, A451
- Hypertension
- essential
- apolipoprotein(a) gene polymorphisms in, A158
- lipoprotein lipase gene and, A157
- immunoreactivity in, A392
- Hyperthermophilic microorganisms, ArgR-mediated transcription regulation in, A242
- Hyperthermostability, of 8-amino-7-oxononanoate synthase, A316
- Hypertrophic cardiomyopathy: *see* *Cardiomyopathy, hypertrophic*.
- Hypothalamic protein B10, circadian clock-related protein Per1 interaction with, A278
- Hypothalamus, uncoupling protein 2 in, during fever and different metabolic conditions, A156
- Hypoxanthine, excision from hepatocyte DNA, free radical overgeneration and, A165
- Hypoxia
- drug delivery system selectivity and, A203
- plant cell death induced by, A372
- prenatal, AChE in cortex and striatum after, A345
- ibpAibpB* operon, operon and gene fusions in regulation of, A173
- ICAM-1: *see* Intercellular adhesion molecule-1.
- Id function, during cell cycle, Cdk-dependent phosphorylation and, A368
- Ideonella dechloratans*, chlorate reductase from, A321, A322
- IFN: *see* Interferon.
- IGF: *see* Insulin-like growth factor entries.
- IL: *see* Interleukin.
- Ileal active bile acid transport protein, structure-function of, A42
- Imidase, thermophilic, from liver, A324
- Imidazolopyrroloquinoline, in human breast milk, A339
- Imipramine, phospholipase D stimulation by, in glioma C6 cells, A445
- Immune response
- acute phase, resistance to bacterial infection and, A489
- of *Drosophila*, signalling pathways in, A488
- to dystrophin, A299
- in hypertension, A392
- IFN regulatory factor in, A114
- Quillaja saponaria* molina saponins and, A204
- Immunity
- adaptive, gamma delta T cells in, A119
- cell-mediated, in old age, A346
- cellular, in multiple sclerosis, A344
- innate
- B cell differentiation and, A487
- complement system serine proteases in, 545
- gamma delta T cells in, A119
- toll/interleukin-1 receptor domain in, 557
- toll-like receptors in, 551
- to yeast infection, extracellular glutamine in, A255
- Immunoglobulins, B cell development and, A487
- Immunoglobulin G antibody molecule, stability and function of, glycosylation and, A75
- Immunoprotection, *Boophilus microplus* Bm86 locus sequence variations and, A201
- Immunosenescence
- age-related, telomere diminution and, 241
- biochemical basis of, A3
- causes and reversal of, A4, 250
- Immunosensor, based on electrogenerated chemiluminescence of Ru(bpy)₃²⁺, A45
- Implantation, uterus after, cyclin E and cdk2 co-expression in, A297
- Industrial yeasts, multiple gene deletions in, A150
- Infants, premature, plasma antioxidant levels in, A154
- Infectious disease, in human, baboons as experimental animals for, A235
- Infertility, male
- correlation among prostate specific antigen, IGF-I and GH in, A298
- semen and antisperm antibodies in, A230
- Inflammation, skin biology and, A119
- Inflammatory bowel disease, genetics of, A157
- Inflammatory disease, complement activation in, A491
- Inflammatory pathways, in Alzheimer's disease, A17
- Influenza virus, nuclear export protein from, dynamic conformation of under physiological conditions, A419
- Influenza virus-specific macromolecular synthesis, inhibition by geranium preparation, A439
- Information theory, predicting protein surface accessibility with, A148
- Inhibin, as spermatogenesis marker, A342
- Initiation factor 2B activity, in IGF-I stimulated neuronal cells, glycogen synthase kinase-3 in regulation of, A340
- Inositol, zearalenone interaction with, A338

- Inositol monophosphatase genes, characterisation of, A451
- Inositol polymphosphatase, multiple, in insulin-secreting cells, A273
- Inositol trisphosphate
in cadmium-induced mitogenesis in macrophages, A269
Ca²⁺ release from permeabilised cells induced by, A274
- Inositol trisphosphate receptors, ligand binding and pore domain coupling in, A388
- Inositol trisphosphate-binding protein, interacting molecules with, A283
- Insect
antimicrobial peptides in, amphibian genes coding for, A444
xenobiotic-detoxifying enzymes of, A440
- Insect cell cultures, *Arabidopsis* acyltransferase in, 687
- Insect stage, of trypanosomes, GARP gene in, A475
- Insecticidal crystal proteins, of *Bacillus thuringiensis*, membrane binding of, A438
- Insecticides
dipteran-specific, from *Bacillus thuringiensis*, A440
effect on respiratory protein complexes of cardiac mitochondria, A191
- Insulin
actions of, adenylyl cyclase-signalling mechanism of, A281
amino acid-induced secretion of, A196
hepatic triacylglycerol secretion and, 103
leptin and lipogenic transcription regulation by, A177
signal transduction of, PDK1 in, A142
- Insulin receptor
signalling by, APS adapter protein in, A270
tyrosine phosphorylation of, A267
- Insulin-dependent diabetes mellitus: *see* Diabetes mellitus, type 1.
- Insulin/FGF-binding ciliary membrane glycoproteins, from *Tetrahymena thermophila*, purification of, A268
- Insulin-like growth factor(s), salinity induction of, in gill of euryhaline teleost, A341
- Insulin-like growth factor I
correlation with prostate specific antigen and GH, in infertile male, A298
neuronal cells stimulated by, initiation factor 2B activity in, glycogen synthase kinase-3 in regulation of, A340
as protector of cardiac myoblasts from hydrogen peroxide-induced apoptosis, A276
- Insulin-like growth factor I receptor
CD28 regulation of, FAS killing and, A29
endocytosis of, EH domain containing protein 1 and, A356
genetic structure of, in children with growth disorders, A279
survival signals from, A13, 47
tyrosine kinase regulation by, A29
- Insulin-like growth factor I receptor antibody, epitope mapping of, A471
- Insulin-like growth factor II
malnutrition and, in skeletal muscle, A172
in pre-eclampsia, A47, 215
- Insulin-like growth factor-binding protein-2, mutation of, IGF binding and, A463
- Insulinoma cells, oxidative damage in, hyperglucose and phosphatidylinositol 3-kinase/Akt signalling pathway in, A430
- Insulin-secreting cells, multiple inositol polyphosphate phosphatase in, A273
- Integrin(s)
in acne, A85
activation state-dependent signalling by, A266
functions of, A49
Mg²⁺-dependent binding of collagen by, in platelets, calcium concentration and, A85
proteoglycan cooperation with, for focal contact formation, A269
structure of, 311
- Integrin-inserted domain, in complex with homotrimeric collagen peptide, A86
- Intercellular adhesion molecule-1
IL-1b-mediated expression of, protein kinase C and tyrosine kinase in, A427
soluble, in children with bronchial asthma, A153
- Interferon, PKR protein kinase induced by, protein phosphatase 1 interaction with, A433
- Interferon- α , in natural killer and T cells, IL-18 receptor gene expression and, A491
- Interferon- γ , in natural killer and T cells, IFN- α and IL-12 regulation of, A257
- Interferon regulatory factor, regulation of IFN system and immune responses by, A114
- Interleukin-1
 β -defensin induction by, in gastric epithelial cells, A493
IL-6 expression controlled by, JNK and c-Jun and, A241
in toll-like receptor signalling, A489
- Interleukin-1b
ICAM-1 expression mediated by, protein kinase C and tyrosine kinase in, A427
signal transduction to nuclear factor- κ B, IRAK-1 in, A491
- Interleukin-1 receptor, in innate immunity, 557
- Interleukin-1 receptor-associated kinase (IRAK-1), in IL-1 β and TNF- α signal transduction to nuclear factor- κ B, A491
- Interleukin-2, in induction of JAK3 tyrosine phosphorylation, in cervical cancer, A283
- Interleukin-3, and etoposide action on peritoneal macrophages, A381
- Interleukin-5 promoter, synergistic transactivation of, by AP-1 and Ets1, in lymphocytes, A471
- Interleukin-6
 β -catenin regulation by, in hepatocarcinoma and leukaemia cells, A296
IL-1 and TNF- α -controlled expression of, JNK and c-Jun and, A241
induction of β -amyloid precursor protein by, A32
induction of gamma fibrinogen gene in hepatocytes by, SAF and, A241
- Interleukin-7, neonatal T cell differential proliferative response to, A30
- Interleukin-8, production of, polysaccharide sulphates and, A257
- Interleukin-10, in mammary cell cycles, A376
- Interleukin-12
binding to heparin and heparan sulphate, A492
in natural killer and T cells, IL-18 receptor gene expression and, A491
in plasma membrane compartmentation in antigen receptor function, A254
- in regulation of IFN- γ in natural killer and T cells, A257
- Interleukin-18 receptor gene expression, IFN- α and IL-12 induction of, in natural killer cells and T cells, A491
- Intermedilysin, human-specific cell lysis by, A233
- Internet
bioinformatics teaching via, A67, A68
for teaching of nutritional biochemistry, A145
- Intestinal peptide transporters, structure-function relationships of, A395
- Intestine
protein kinase C δ localisation in, in APC defect, cyclooxygenase inhibitors and, A432
surgical stress and, xanthine oxidase in, A437
- Invertase
from shoots of rice seedlings, A402
vacuolar, from sweet potato, A406
- Invertebrates
mucins of, infrared analysis of, A86
neuropeptide processing in, peptidases in, A61
- Inverted-repeat DNA, as gene-silencing technique, 925
- Ion channel(s), of plasmalemma, high temperature exposure and, A393
- Ion channel NCC27, in soluble and transmembrane state, A471
- Ion transport, bacterial survival and, dimethyl sulphoxide effects on, A194
- Ionone end groups, carotenoids with, lycopene cyclases in, 806
- IRAK-1: *see* Interleukin-1 receptor-associated kinase (IRAK-1).
- Iron ions, in nitric oxide-induced SOS DNA repair in *Escherichia coli*, A165
- Iron uptake, apical, hereditary haemochromatosis protein and, A160
- Iron-sulphur cluster interconversions, in biotin synthase, A471
- Iron-sulphur flavoprotein, modular architecture of, A123
- Irradiation
DNA polymorphisms after, A179
T cell apoptosis induced by, protein kinase C activation cross-talk with, A379
- ISI element, from *Shigella boydii*, A180
- Ischaemia, of brain, survival and death-promoting signals after, A434
- Ischaemia/reperfusion, hepatocyte apoptosis induced by, A371
- Islets, metabolic regulatory mechanisms in, A99
- Isoflurane, effects on nitric oxide metabolism and myocardial oxidant status, A203
- Isoperoxidase, pattern and activity of, in *Cucumis sativus* hypocotyls and leaves, A400
- Isoprenoid biosynthesis: *see also* Polyisoprenoids; Sterols.
inherited disorders of, A163
non-mevalonate pathway of enzymes, genes, and inhibitors in, 785
first two enzymes of, 792
as test system for drugs against malaria and pathogenic bacteria, 796
- 3-Isopropylmalate dehydrogenase
mutation, in *Escherichia coli*, thermal stability of, A465
- Jak/Stat signalling, in resistance to ceramide, A358
- Jamaica, dasheen and cocoyam from, molecular analysis of, A179

- Janus kinase tyrosine phosphorylation, IL-2 induction of, in cervical cancer, A283
- Japanese pufferfish, as vertebrate reference genome, A102
- Jasmonate
genes responsive to, in *Arabidopsis* cDNA arrays, 863
in rice plant self-defence mechanisms, A437
- JKTBP protein, molecular characterisation of, A356
- JNK: *see* c-Jun N-terminal kinase.
- K-ras mutations, in pancreatic cancer, A222
- K-ras oncogene, in retina, bleomycin-induced changes in, A238
- katG* gene, from *Mycobacterium tuberculosis*, A327
- KCN-cytochrome *d* complex, in *Salmonella typhimurium*, interaction of azide and fluoride with, A189
- KE4* gene, TNF- α down-regulation of, A286
- Kennedy pathway, in complex lipid biosynthesis: *see* Complex lipid biosynthesis, Kennedy pathway in.
- Keratinocyte(s)
cyclophilin A localisation in, A350
spontaneously immortalised, thermal responses and cell survival of, A373
vasoactive peptide induction of E-selectins on, A231
- Keratinocyte growth factor FGF-7, LNCaP cell proliferation and, A340
- Keratinocyte phenotype, glutamate regulation of, A82
- Kernel development, in oat, storage product accumulation in, 705
- α -Ketoacid dehydrogenase, branched-chain, mitochondrial, structure and function of, A424
- β -Ketoacyl reductase, antisense expression of, fatty acid biosynthesis and, 613
- β -Ketoacyl synthases
catalysis of, molecular aspects of, 601
I and II, differences between, 601
- β -Ketoacyl-acyl carrier protein synthase II, from leek epidermis, biochemical characterisation of, 610
- Ketoacyl-CoA synthase, in maize root, 647
- Khat ingestion, and glucogenic hormones in diabetes mellitus, A156
- Kidney
arginase in, metal ion inhibition of, A322
cellular metabolism of, nutrients and, A291
in diabetes, yam and dasheen effects on, A156
heme oxygenase-1 in, in myoglobinuric acute renal failure, A156
- Kinetic constant, estimation of, using different methodologies applied to ping-pong bi-bi kinetic mechanism, A315
- Kinin B1 receptor, footprinting analysis of, A265
- Klebsiella pneumoniae*, NifA protein from, structure and DNA binding of, A422
- Klockeria apiculata*, pentose phosphate pathway in, A145
- Kochia scoparia*, acyl-acyl carrier protein desaturase enzymes from, 623
- Krebs, Sir Hans, lecture award, A97
- Kringle 1-3
in *Escherichia coli*, angiogenin interaction with, A294
of plasminogen, A216
- L1 retrotransposone, reverse transcriptase encoded by, A237
- L11 protein, localisation in *Escherichia coli*, role in EF-G-dependent tRNA translocation, A210
- Labor, preterm, myometrial myosin light chain kinase immunogens and, A279
- γ -Lactamase, in anti-HIV drug synthesis, A75, A417
- Lactate, in brain, dichloroacetate effect on, in cerebral malaria, A455
- Lactate dehydrogenase, in tears of contact lens wearers, A319
- Lactation, glucose tolerance test during, serum ionised magnesium in, A26
- Lactic acid bacteria, inorganic pyrophosphatase from, A319
- Lactobacillus reuteri*, glycerol metabolism by, glucose and, A330
- Lactococcus lactis*, cellobiose-inducible lactose metabolism in, CcpA protein and, A192, A215
- Lactoperoxidase, in body's self-defence, A329
- Lactose metabolism, cellobiose-inducible, CcpA protein and, A192, A215
- Lactose permease, of *Escherichia coli*, A143
- λ usO₈ revertants, phage DNA replication and, A165
- Lamella, of polarised cells, microtubules in, A217
- Lamin B, binding specificity of, satellite DNA bending state and, A245
- Laminaria japonica*, lipids in, temperature and, 894
- Laminin, GPI-anchored cellular prion protein interaction with, A347
- Laminin receptor, in breast cancer, A24
- Langerhans cells, co-stimulatory and cell adhesion molecule expression in, *Leishmania major* lipophosphoglycan and, A234
- Lanosterol, cholesterol biosynthesis from, A443
- LasA specificity, of *Pseudomonas aeruginosa*, with tropoelastin pentapeptides as substrates, A323
- Lasers, free-electron, scientific potential of, A133
- LAT, association with protein tyrosine phosphatase CD45 and protein tyrosine kinase LCK, A428
- LCK, association with protein tyrosine phosphatase CD45 and adaptor protein LAT, A428
- LDL: *see* Low density lipoprotein.
- Lead, lipids and, in lichen and bryophytes, 910
- Lectins
animal, cell-cell recognition by, A133
cytotoxic, from snake venom, A442
and free-radical processes in erythrocytes, in type 1 diabetes, A397
from fungus, A40
from garlic, tumour cell growth inhibited by, A403
glycoenzyme folding and activity and, A124
identification with photoaffinity glycoprobes, A443
legume, binding and folding of, A133
mapping of, on calnexin and calreticulin, A463
protein traffic and, in secretory pathway, A133
in skin, of lizard, A335
soybean seed acid phosphatase and, A459
- LEF-1 transcription factor, and *EDA* gene expression, A462
- Legumes, lectins of, binding and folding of, A133
- Leishmania*
atypical cutaneous and visceral leishmaniasis from, A477
cysteine proteinases of, A254
genomic organisation and gene function in, A472, 527
pathogenicity of, surface glycoconjugates in, A117
protein structure prediction in, A479
pyruvate kinase of, crystal structure of, A12
rDNA promoter domains of, A288, A484
SHERP expression in infective stage of, A352
stage-regulated proteins of, A475
tubulins in, A218
Leishmania amazonensis arginase, structure of, A247
Leishmania major lipophosphoglycan, modulation of co-stimulatory and cell adhesion molecule expression by, in Langerhans cells, A234
Leishmania mexicana mexicana, genetic heterogeneity of, A245
Leishmania pyruvate kinase, crystal structure and regulatory properties of, 186
Leishmaniasis
American cutaneous, horses as hosts of, A485
horses as hosts of, A155
Lens
crystallin α -A and α -B in, structural differences in, A415
growth of, underlying mechanisms of, A385
proteins of, lysine residue modification in, structural changes after, A87
Lentivirus, HIV-like, in DeBrazza's monkeys, A212
- Leptin, body weight and, A104
- Leptin transcription, glucose/insulin regulation of, A177
- Leptophos, N2a neuroblastoma cell differentiation and, A438
- Leucine, uptake into midge larvae membrane vesicles, A390
- Leukaemia
acute lymphoblastic, identification of lymphocytic cells in, A220
B cell chronic lymphocytic, cell cycle genes in, A301, A368
myeloid
matrix metalloproteinase-7 in, A449
multidrug resistance in, PI3-kinase survival signals in, A27
- Leukaemia cells
basophilic, syntaxin-3 and VAMP-7 in, A398
cytotoxicity and apoptosis in abrin A induction of, A379
polyphenol induction of, A380
hydroquinone-induced apoptosis of, caspases in, A447
IL-6 regulation of β -catenin in, A296
matrix metalloprotease-7 in, A39
resistant to amethopterin and FdURD, cellular folate/folate enzyme levels and, A200
RGD-containing peptide-induced apoptosis of, caspase-3 activation in, A445
- Leukocytes
trafficking of, tumour cell metastasis and, A350
in uteroplacental tissue, A18, 191
- Lichen, lipid metabolism in, copper and lead effect on, 910
- Light
phytochrome absorbed, cyclic NMP phosphodiesterases and, A275
transcriptional regulation of monogalactosyldiacylglycerol gene by, in cucumber, 738
ultraviolet: *see* Ultraviolet light.

- LightCycler, in quantitation of gene copy numbers, A152
- Limnanthes douglasii* erucic acid-specific lysophosphatidic acid acyltransferase activity, in oilseed rape, 964
- Linoleic acid, high content of in petunia seed oil, molecular basis of, 631
- Linolenic acid, in rapeseed-mustard, 581
- Lipase(s)
- as catalyst in production of biodiesel fuel from lauric oils, 979
 - pancreatic, in camel, A313
 - porcine pancreatic and rapeseed, cross-talk between, 974
- Lipase activity
- in *Arabidopsis*, 773
 - in leaf senescence, 775
 - in germinating rape seeds, sodium chloride and, 899
 - in germinating sunflower seedlings, 771
 - in oil palm, 769
 - in *Vigna unguiculata* leaves, drought stress and, 779
 - in wheat, graminicides and, 777
- Lipase B, enantioselectivity of, thermodynamic analysis of, A317
- Lipase genes, fatty alcohol-induced thermostable, in *Pseudomonas* strains, A193
- Lipase-catalysed synthesis, of ascorbyl fatty acid esters, A323
- Lipid(s)
- acidic, from thylakoid membranes, environmental effects on, 912
 - ageing and
 - in *Blumeria graminis* conidia, 875
 - in *Pinus sylvestris* seeds, 878
 - architecture of, in trypanosomes, A477
 - atmosphere and
 - in sunflower microsomal oleate desaturase, 890
 - in tobacco chloroplasts under increased CO₂ partial pressure, 885
 - in breast cancer patients, TNF- α and, A222
 - environmental effects on, seasonal variations of DGTS in *Polypodiophyta*, 873
 - fungal diseases and
 - in soybean, 917
 - in wheat seedlings, 920
 - heavy metals and
 - in bryophytes and lichens, 910
 - in pepper, 907
 - in wheat, 905
 - inner membrane, from barotolerant *Pseudomonas* spp., A397
 - in liver, effect of chylomicron remnants enriched in n-3/n-6 polyunsaturated fatty acids on, A343
 - of membrane, in intracellular transfer of hormonal signals, A271
 - metabolism of
 - perfused heart studies of, 113
 - peroxisomes and, A10
 - fatty acid α - and β -oxidation systems in, 141
 - oxidation of
 - β -carotene in, A399
 - nickel sulphate-induced antioxidant system mutation and, A459
 - products of, NMR of, A32
 - in plasma and liver, fatty acid metabolism of, in type 2 diabetes, melatonin and, A196
 - in plasma, liver, and aorta, shark liver oil dietary supplementation and, A343
 - polyhydroxyalkanoate synthesis from, *Pseudomonas corrugata* in, A151
 - as reflection of plant resistance to stress, 922
 - salts and
 - in cotton seeds, 902
 - in germinating rape seeds, 899
 - in seeds, inverted-repeat DNA as gene-silencing tool for, 925, 927
 - temperature and
 - in cyanobacterium, 892
 - in marine alga, 894
 - in sunflower microsomal oleate desaturase, 890
 - in thermoadaptation, in seagrass, 887
 - thylakoid, and violaxanthin de-epoxidation in liposomes, 810
 - ultraviolet irradiation and, in *Vitis vinifera* carotenoid content, 883
 - water deficits and, in cowpea leaves, 915
- Lipid biosynthesis: *see also* Complex lipid biosynthesis; Phospholipid synthesis.
- chloroplastic, in microalgae, triacylglycerol as reservoir for polyunsaturated fatty acids in, 740
 - control of
 - carbon supply in, 667, 672
 - plastidial transporters in, 665
 - in sunflowers, 669
 - Lipid biosynthetic genes, 617
- Lipid bodies, phosphatidic acid and phosphatidylcholine intracellular transport into, in oleaginous fungus, 723
- Lipid catabolism: *see* Complex lipid degradation.
- fatty acid breakdown in: *see* Fatty acid breakdown.
- Lipid composition, cellular, cell permeabilisation by digitonin and, A399
- Lipid hydroperoxides, in plants, 837
- Lipid membrane, benzocaine interaction with, A203
- Lipid phosphate phosphatases and ERK1/2 activation by sphingosine 1-phosphate and lysophosphatidic acid, A279
- isoform expression, partial purification, and characterisation of, A357
- Lipid profile, in CAD patients, A302
- Lipid signalling, phosphatidylinositol transfer proteins in, A131
- Lipid transfer proteins, antifungal, in sunflower, A405
- Lipid-body biogenesis, mechanisms of, 710
- Lipid-hydrolysing activity, in hexenal formation, 857
- Lipoate-activating enzyme, from liver, A326
- Lipogenic transcription, glucose/insulin regulation of, A177
- Lipophosphoglycan-like molecules, biosynthesis of, in *Entamoeba histolytica*, A457
- Lipopolysaccharide, AP-1 activation by, Csk overexpression and, A279
- Lipoprotein(s): *see also* High density lipoprotein; Low density lipoprotein.
- modification of, cardiovascular disease and, A94
 - toll-like receptor recognition and, A114
- Lipoprotein lipase
- hypertension and, A157
 - interactive protein partners of, A352
 - in macrophages, TGF- β regulation of, A338
- Liposomal membranes, cholesterol in, ethanolamine plasmalogen protection of, from free radicals, A398
- Liposomes
- pH-sensitive, as carriers for endoplasmic reticulum-targeted drugs, A458
 - violaxanthin de-epoxidation in, monogalactosyldiacylglycerol effects on, 810
- Lipoxygenase
- anaerobic, from *Chlorella pyrenoidosa*, 950
 - aorta contraction dependent on, cyclooxygenase inhibition and, A326
 - association of 14–3–3 proteins with, phosphorylation dependence of, 834
 - in carotenoid degradation from tomato, antioxidant vitamins and, 839
 - in early *Brassica napus* germination, 832
 - isoforms of
 - in elicitor-treated parsley cells, 827
 - in olive callus, 830
 - with new positional specificities, site-directed mutagenesis in, 825
 - in tulip, ketol biosynthesis in, 851
- Liquid-crystalline biosensors, DNA, A21
- Listeria monocytogenes*
- infection from, molecular interactions and signalling during, A117
 - in transition from exponential to stationary phase, bacterial proteome analysis during, A183
- Litchi chinensis*, cyclopropanoic fatty acids in, 578
- LIV-1 breast cancer protein, control by intracellular zinc, A394
- LIV-1 protein, in breast cancer, functions of, A223
- Liver: *see also* Hepato-entries.
- 4-aminobutyrate aminotransferase in, A420
 - arginase in, metal ion inhibition of, A322
 - C-C chemokines expressed in, A341
 - cold preservation of during transplantation, matrix metalloproteinase release in, A85
 - cytochrome P450 in, in cholangiocarcinoma, A227
 - cytochrome P450 in, vitamin K and, A439
 - fatty acid metabolism of lipids in, in type 2 diabetes, melatonin and, A196
 - fructose metabolism in, A25
 - galectin 3 in, in recovery from carbon tetrachloride-induced injury, A276
 - GKRP and fructose phosphates in, regulation of mutated glucokinase by, A192
 - glucose metabolism in, glucokinase in, A100
 - haemoglobin-free perfused, in metabolic control analysis, A8, 109
 - lipids in
 - effect of chylomicron remnants enriched in n-3/n-6 polyunsaturated fatty acids on, A343
 - shark liver oil dietary supplementation and, A343
 - lipoate-activating enzyme from, A326
 - metabolic regulatory mechanisms in, A99
 - normal/cirrhotic, hepatocytes in, nuclear matrix protein in, A298
 - Pex5p from, characterisation of, A354
 - phenylalanine hydroxylase expression in, A25
 - pyruvate dehydrogenase kinases in, A195
 - sialyltransferase activity in, in acute and chronic stress, A458
 - stellate cells in
 - nucleotide-stimulated phospholipase D activity in, A265
 - proliferation and activation of, zinc and, A158
 - thermophilic imidase from, A324

- triacylglycerol secretion by, A8
insulin effects on, 103
tumour-bearing, cyclin-dependent kinase inhibitor gene expression in, A239
- Liver cells: *see* Hepatocytes.
- maitotoxin-activated transient receptor potential Ca²⁺ channels in, A388
- Liver damage, in hepatitis B infection, independence of core promoter mutations and viral replication from, A211
- Liver disease, HCV-associated, pancreatic foecal elastase in, A153
- Liver glycogen, aggregation of β -particles into α -particles in, A336
- Lizard, skin lectins in, A335
- L-Lysine alpha-oxidase, conjugation of with antibodies using glutaraldehyde, A219
- LNCaP cell proliferation, keratinocyte growth factor FGF-7 and, A340
- Log-odds scoring matrices, calculated from designed protein sequences, A261
- Lon, ATP-dependent, from *Escherichia coli*, A317
- Low density lipoprotein cholesterol ester uptake and, in type 2 diabetes, A94
oxidised, uptake of, vitamin E inhibition of, A242
SPR chip peptide chip and, A21
- Low density lipoprotein receptor-related protein, in midkine receptor, A269
- L-selectin, soluble, in children with bronchial asthma: *see* Intercellular adhesion molecule-1.
- Luciferase, monoclonal antibody-assisted refolding of, A414
- Lucina pectinata*, cysteine-rich protein and yellow fraction from, A419
- Lumen, of endoplasmic reticulum, carbohydrates and cross-linking in, A124
- Lung
arginine-specific ADP-ribosyltransferase in, A321
surfactant proteins A and D in, respiratory syncytial virus infectivity and, A490
- Lung adenocarcinoma
cisplatin resistance in, intracellular Ca²⁺ concentration and, A454
membrane lipid changes in, multidrug resistance and, A396
- Lung carcinoma
cystic fibrosis gene mutation in, A303
non-small cell, procaspase-3 in, A377
- Lung cells
foetal epithelial, in rat, A438
normal, apoptosis control of cell proliferation and death in, A371
- LY294002, growth inhibition by, in glioblastoma cells, A226
- Lycopene cyclases, in formation of carotenoids with ionone end groups, 806
- Lycopersicum esculentum* leaves, methyl jasmonate and, A399
- Lyme disease spirochete, linear plasmids of, A102
- Lymphangiogenesis, VEGF and receptors in, A138
- Lymphoblastoid cells, *Theileria parva*-infected, glutamine-metabolising enzymes in, A195
- Lymphocyte(s)
in acute lymphoblastic leukaemia, A220
apoptosis of
sphingolipid signalling and oxygen production in, A359
in spleen, calcium and phospholipid signalling in, A378
- AP-1 synergy with Ets1 in transactivation of IL-5 promoter in, A471
- phytohemagglutinin-stimulated, UBF gene activity in, A173
- Lymphoid cells
adhesion to glycosylated proteins, A449
apoptosis of, melatonin and, A374
- Lymphoma
growth of, inhibition by sulphonamide inhibitors of carbonic anhydrase, A297
malignant, tumour suppressor genes in, A224
- Lymphoma cells, Burkitt, apoptosis of, L-type Ca²⁺ channel antagonists in, A375
- Lysine, in food, biosensor detection of, A44
- Lysine residue modification, in lens proteins, structural changes after, A87
- Lysophosphatidic acid
ERK1/2 activation by, lipid phosphate phosphatases in, A279
Rat-1 fibroblast mitogenesis and, A357
- Lysophosphatidic acid acyltransferase, plasmidial, mutagenesis of, 961
- Lysophosphatidylcholine acyltransferase from *Mortierella alpina*, sesamin inhibition of, 718
solubilisation from *Allium porrum* leaves, 713
- Lysosomal storage disease, molecular basis of, A10, 150
- Lysozyme, conformational stability of, A410
- α_2 -Macroglobulin, MBL-MASPs regulation by, A492
- Macrophages
apoptosis of, Bacille Calmette-Guérin infection and, A232
cadmium-induced mitogenesis in, inositol trisphosphate and, A269
cholesterol esterification in, A342
cyclooxygenase-2 in, up-regulation of, A270
dexamethasone delivery to, nuclear factor- κ B modulation by, A436
DUP 753 cytotoxicity in, A294
G-CSF induction in, cell surface protein associated with, A271
lipoprotein lipase in, TGF- β regulation of, A338
peritoneal, etoposide action on, IL-3 and, A381
- Macular degeneration, age-related, A162
- Magnesium
integrin binding of collagen dependent on, in platelets, calcium concentration and, A85
ionised, in serum, during glucose tolerance test in lactation, A26
- Magnesium ion-dependent ATP, in brain, A39
- Mahewu*, sorghum phenolic compound changes during fermentation, A290
- Maillard protein fluorescence, inhibition of, A204
- Maitotoxin, transient receptor potential Ca²⁺ channels activated by, in liver cells, A388
- Maize
kernels of, aleurone layer of, phytosterols in, 803
orthophosphate dikinase gene promoter in, A243
root elongases in, biochemical and molecular characterisation of, 647
- Rubisco activase in, A400
- structure-specific recognition protein in, A250
- tissues of, glycerolipid composition of, 586
- Major histocompatibility complex class I inhibitor receptors specific for, in natural killer cells and T lymphocytes, A114
- molecular transport in, calnexin in, A454
- peptide loading complex interactions, A447
- Malaria
cerebral, dichloroacetate effect on brain lactate and glutamate in, A455
drugs against, non-mevalonate isoprenoid biosynthesis as test system for, 796
target organs of, nitric-oxide synthase induction in, A482
- Malaria parasites: *see* *Plasmodium falciparum*.
- Malate dehydrogenase R153C, in *Escherichia coli*, A415
- MALDI-MS: *see* Matrix-assisted laser desorption/ionisation-mass spectrometry.
- Malnutrition, effect on myostatin and IGF-II in skeletal muscle, A172
- Mammalian cells, proteomic analysis of, A230
- Mammary cell cycle, IL-10 in, A376
- Mammary gland, growth hormone in, A41
- Manganese, sucrose synthase kinase dependent on, from rice seedlings, A407
- Mannose metabolism gene transcription, protein secretion and, in *Trichoderma reesei*, A336
- Mannuronan C5 epimerase, assay for, A324
- MAP kinase: *see* Mitogen-activated protein kinase.
- Marchantia polymorpha*, GPI-anchored proteins in, 589
- Marine alga, lipids in, temperature and, 894
- Marine bacterium, heat shock operon *groE* of, A250
- Marine invertebrates, thermoadaptation in, A343
- Maspin, protein targets for, A31
- Mass spectrometry, in amino acid sequencing, integration of biomolecular interaction analysis with, A262
- Mast cell deficiency, active systemic anaphylaxis in, A257
- Matrilysin, in myeloid leukaemia invasion, A449
- Matrix metalloproteinase(s)
of cucumber, in senescence, A173
production of, C-C chemokines and cytokines in, A340
secretion of
by glomerular mesangial cells, A170
stimulated by cold preservation of liver during transplantation, A85
- Matrix metalloproteinase-1
expression by dermal fibroblasts, PDGF effect on, A84
gene inhibiting, in gingival fibroblasts, Stat3/p65 heterodimer regulation of, A162
- Matrix metalloproteinase-2, collagen-bound, in uterine tumours, A442
- Matrix metalloproteinase-7
in leukaemia cells, A39
in myeloid leukaemia invasion, A449
- Matrix metalloproteinase-9, collagen-bound, in uterine tumours, A442
- Matrix-assisted laser desorption/ionisation-mass spectrometry
automated identification of protein using, A260
as mutation detection tool, A150

- of proteins separated by two-dimensional gel electrophoresis, A152
- yeast mitotic spindle protein identification by, A118
- MBL-MASPs, regulation by C1-inhibitor and α_2 -macroglobulin, A492
- MB78, restriction-modification system in, A171
- Medium chain acyl-CoA dehydrogenase deficiency, genetic mutation properties in, A160
- Meiotic mutant, of *Arabidopsis*, A209
- MEK1 pathway, EGF-activated, TGF- β perturbation of, A370
- Melanocortin 1 receptor, cysteine in, A266
- Melanoma, hereditary, circulating tumour cell detection in, A224
- Melanoma cells
- apoptosis induced by low positive temperature and photosensibilisator in, A377
 - cationic photosensitiser killing of, A30
- Melatonin, lymphoid cell apoptosis and, A374
- melR* gene promoter, of *Escherichia coli*, repression of, A285
- MelR protein, of *Escherichia coli*, DNA binding of, A287
- Membrane affinity, of palmitoylated G protein, A448
- Membrane lipids
- of cyanobacteria, glucose concentration and, A398
 - in lung adenocarcinoma, multidrug resistance and, A396
- Membrane permeability, carnitine and, A441
- Membrane ruffle, sprouty protein targeting of, growth factor receptor tyrosine kinase activation in, A275
- Membrane transport protein families, functional site structure conservation in, A40
- Membrane-bound proteins, barrier function of, in mitochondrial H⁺ transport, A462
- Menaquinol:fumarate oxidoreductase, of *Escherichia coli*, Qp site of, A190
- Meningococci, dendritic cell activation by, A493
- Menopause, osteoporosis after, vitamin D receptor polymorphism and, A162
- Mep/Amt ammonium transport proteins, membrane topology of, A94, A393
- Mesophile, alcohol dehydrogenase from, thermophilic alcohol dehydrogenase vs., A316
- Mesophilic α -amylase, proteolysis of, A418
- Metabolic control, analysis of, A106
- Metabolic model control language, Scrumpi as, A196
- Metabolic regulation
- analysis of, haemoglobin-free perfused liver in, A8, 109
 - in human muscle, 100
- Metabolism, enzyme deficiencies and, in skeletal muscle, 159
- Metal: see also Heavy metals.
- Metal ions
- divalent, in aqueous solution, DNA structural transitions under, A460
 - inhibition of liver and kidney arginase by, A322
 - renal tubular cells exposed to, cytological and biochemical studies of, A382
- Metalloproteinase, ECEL1 (XCE) as, A59
- Metalloproteinase, from snake venom, platelet aggregation inhibition by, A308
- Metallothionein, in buckwheat, A401
- Metallothionein-like protein, in *Dictyostelium discoideum*, A292
- Metastasis, drugs against, leukocyte trafficking and, A350
- Metazoan genomes, functional composition of, A113
- Methaemoglobin, H₂O₂-induced free radicals in, A78
- Methane, microbial formation of, A130
- Methanococcus janaschii*, multidrug efflux protein from, A65
- Methionine, colon tumour dependent on, folate in, A224
- Methionine repressor protein, in *Escherichia coli*, A71
- Methionine synthase
- cobalamin-dependent, in colon tumour, A220
 - genetic mutations in, pleiotropic effects of, in *Aspergillus nidulans*, A194
- Methyl, transfers to thiols, zinc in, A123
- Methyl jasmonate
- Lycopersicon esculentum* leaves and, A399
 - plant protein phosphorylation and, 870
- 3-Methyladenine-DNA glycosylase I, from *Escherichia coli*, A421
- Methylchoranthrene, fibrosarcoma cells induced by, p53 gene mutation sites in, A180
- 5-Methylcytosine, in *Drosophila* DNA, A248
- Metmyoglobin, H₂O₂-induced free radicals in, A78
- Mevalonic pathway enzymes, regulation of, A333
- MF virus, induction of MYCN DNA amplification by, in pediatric neuroblastoma, A225
- MHC class I: see Major histocompatibility complex class I.
- Microalgae
- chloroplastic lipid biosynthesis in, triacylglycerol as reservoir for polyunsaturated fatty acids in, 740
 - delayed luminescence characteristics of, oil hydrocarbon treatment and, A403
- Microarrays, automated, nylon membrane optimised for, A363
- MicroBeads, in immunoprecipitation of proteins, A215
- Microbials
- metabolism and regulation of, genomic perspectives on, A121
 - methane formation in, A130
- Microbial activation, curcumin inhibition of, A305
- β 2-Microglobulin, partial unfolding of, A68
- Microsatellite(s)
- in detection of polymorphism levels of Turkish wheat bread genotypes, A245
 - in pink shrimp, A182
 - in white shrimp, A185
- Microsatellite instability, of colorectal cancer, A220
- Microsomal membrane preparation, from *Mortierella alpina*, oil biosynthesis in, 707
- Microsporidia
- transovarially transmitted, A481
 - vertical transmission in, A484
- Microtubules
- in lamella of polarised cells, A217
 - length distribution and spatial organisation of, in Vero cells, A216
- Mid2, *Saccharomyces cerevisiae* cell integrity signalling activated by, through Rom2, A281
- Midge larvae membrane vesicles, leucine uptake into, A390
- Midgut
- α -glucosidases in, in *Tenebrio molitor*, A321
 - of *Periplaneta americana*, β -glucanases from, A310
- Mikarin, from snake venom, A311
- Mimosine, p27Kip1 expression induced by, A367
- Mini atrial natriuretic peptide, receptor-bound conformation of, A207
- Miscarriage, T-cell cytokines in, A20
- Mitochondria
- apoptosis and, A11
 - ATP synthase in, proton-translocating portion of, A191
 - BCODH in, estradiol regulation of, A196
 - β -oxidation of enzymes in, A11
 - branched-chain α -ketoacid dehydrogenase from, structure and function of, A424
 - cardiac, respiratory protein complexes of, fenvalerate alterations of, A191
 - cell death and, 170
 - of *Crithidia fasciculata*, RNA-binding proteins from, A484
 - cytochrome c outside, antioxidant function of, A363
 - disorders of, adherent cell cultures in, cytometric analysis system for, A364
 - DNA damage and repair in, anticancer platinum drugs and, A463
 - DNA polymorphisms in, A362
 - functioning of, effect of cAMP and catecholamines on, A277
 - gene diversity in, parasite transmission and, A481
 - H⁺ transport in, barrier function of membrane-bound proteins in, A462
 - hydroxybutyrate dehydrogenase in, structure and function of, A320
 - inner membrane of, biogenesis of, A126
 - membrane of
 - energisation of, and Ca²⁺ influx into T cells, A284
 - potential changes in, in cardiomyocytes, A188 - Na⁺/H⁺ exchanger in, A462
 - nitric oxide functions in, Ca²⁺ concentration and, A449
 - outer membrane of
 - as diffusion barrier, A11
 - as diffusion barrier in health and diseases, 164 - in palmitate oxidation, in pea tissues, 757
 - permeability of, in neuroblastoma cells, A205
 - phosphatidylcholine transport by, photocross-linking in study of, A397
 - proteins of, targeting of, A126
 - during apoptosis, A127
 - P4502B1 targeting to mechanisms of, A354
 - protein kinase A phosphorylation and, A349
 - reversed function of, rapid selection of, A366
 - ribosome binding to, A457
 - store-operated Ca²⁺ channels modified by, A463
 - of yeast, membrane protein import in, 495
- Mitochondrial
- bioenergetics of, carvedilol and BM 910228 effects on, A434
 - DNA of
 - deletions in as marker of ultraviolet radiation exposure in skin, A219
 - Din7p overproduction and, in *Saccharomyces cerevisiae*, A165 - Mitochondrial complex I, NADH:quinone reductase reactions catalysed by, stoichiometry of, A450

- Mitochondrial pathway, of apoptotic signalling, glutathione extrusion and, 56
- Mitochondrial processing peptide, of yeast, A350
- Mitochondrial transcription-termination complex, in mitochondrial DNA transcription, 154
- Mitochondrial translation, chronic inhibition of, A10
- Mitochondrial trifunctional protein, b-oxidation metabolism and, 177
- Mitogen-activated protein (MAP) kinase activation by mechanical stress, A424
- activation in cardiac myocytes, α_1 -adrenergic stimulation of, A431
- cell volume regulation and, A272
- pathways of
- adrenomedullin and GCRP activation of, in vascular smooth muscle and endothelial cells, A298
 - cdk-5 as negative regulator of, A433
 - in nuclear factor- κ B/RelA activation in fibroblasts, A295
 - regulatory mechanisms of, A142
 - PDGF-activated, taurine and, A202
 - protein kinase C activation of, PAR-2 in, A267
 - regulators and effectors of activation, in hippocampal neurons, A430
 - stress-activated, in fission yeast, A108
- Mitogen-activated protein (MAP) kinase phosphatase, dual-specific, in *Drosophila*, A427
- Mitogenic epidermal growth factor, target receptor of, A39
- Mitosis, sister chromatid separation in, A135
- Mitotic gene expression, chromatin-remodelling enzymes in, A113
- Models, mouse-to-human problem in, A226
- Molecular chaperone, structure and function of, A140
- Molecular medicine, in healthcare delivery, A99
- Monoamine release, in striatum, VDCC antagonist effect on, age and, A304
- Monoclonal antibody, luciferase refolding assisted by, A414
- Monoclonal antibody H107, peptide binders to, A41
- Monocytes
- apoptosis of, TPCK-sensitive enzyme in, A378
 - cholesterol esterification in, A342
 - homocysteine effect on TNF- α in, A25
 - protein kinase C expression in, A280
- Monogalactosyldiacylglycerol, and violaxanthin de-epoxidation in liposomes, 810
- Monogalactosyldiacylglycerol gene, in cucumber, transcriptional regulation by light and phytohormones in, 738
- Monogalactosyldiacylglycerol synthase, synthesis of, 732
- Monoleine-water, cubic liquid-crystalline phase of, cAMP and dibutyl cAMP effects on, A284
- Moritella marina*, fatty acid biosynthesis in, 943
- Mortierella alpina*
- lysophosphatidylcholine acyltransferase from, sesamin inhibition of, 718
 - microsomal membranes of, oil biosynthesis in, 707
- Mosquito stage, of *Plasmodium berghei*, A475
- Moss, GPI-anchored proteins in, 589
- Motor performance, and sex hormones in blood plasma of men, A197
- Mouse genomes, extracting functions from, A113
- mRNA polyadenylation, eukaryote transcription termination and, A461
- Mxl* gene, in tooth bud formation, A462
- Mu bacteriophage, mom gene of, intrinsic and protein-induced DNA distortion and, A441
- MUC5AC, as mucin marker of cholangiocarcinoma, A227
- Mucins, invertebrate, infrared analysis of, A86
- Mucosal tissue, oral, dexamethasone permeation of, A201
- Multidrug efflux proteins, 513
- recognition of, 517
- Multidrug resistance: *see also* Drug sensitivity/resistance.
- of cancer, ATP-binding cassette transporters in, A143
 - membrane lipid changes and, in lung adenocarcinoma, A396
 - in myeloid leukaemia, PI3-kinase survival signals in, A27
 - Pgp overexpression in, mechanism of resistance to Pgp-unrelated to drugs, A376
 - in *Saccharomyces cerevisiae*, A122
- Multidrug resistance protein(s)
- molecular expression of, in gastrointestinal tract, A91
 - in release of conjugates with glutathione, glucuronate or sulphate, A6
- Multidrug transporter, ion-coupled, EmrE as, A143
- Multi-parameter fluorescence immunosensor system, to study ligand-receptor interaction, A337
- Multiple drugs
- efflux proteins from, expression and properties of, A65
 - resistance to, ABC transporters and, A66
 - single protein recognition of, A65
- Multiple inositol polyphosphate phosphatase, in insulin-secreting cells, A273
- Multiple sclerosis
- cellular immunity in, A344
 - lesions of, axonal submembranous cytoskeletal components in, abnormal expression of, A346
- Muscarine, amyloid precursor protein- α regulation by, in neuroblastoma cells, A33
- Muscarinic acetylcholine, recombinant, growth regulation by, A426
- Muscarinic acetylcholine receptors
- gene regulation by, A17
 - Raf/MEK/ERK pathway downstream of, p70S6K regulation by, A428
 - transmembrane domain 7 of, alanine scanning of, A268
- Muscarinic receptor, cross-talk in regulation of ERK and JNK activities, A429
- Muscarinic receptor M₃, with β_2 -adrenoceptor, in interactive regulation of JNK and ERK signalling pathways, A426
- Muscle(s): *see also* Cardiac muscle; Skeletal muscle.
- caldecrin in, A324
 - GH-releasing factor in, A472
 - metabolic regulation in, A8, 100
- Muscle cells, antigen expression in, driven by neuroendocrine-specific promoter in DNA vaccine, A258
- Muscular dystrophy
- gene therapy for, A299
 - limb girdle in, filamin C interaction with myotilin in, A300
 - pathogenesis of, myeloperoxidase in, A306
- MYCN DNA amplification, MF virus-induced, in pediatric neuroblastoma, A225
- Mycobacteria, arylamine *N*-acetyltransferases in, polymorphism of, A323
- Mycobacterium avium*
- GS element-encoded proteins in, A234
 - proteins encoded by GS element in, A76
- Mycobacterium* spp., DNA gyrase genes in, A288
- Mycobacterium tuberculosis*
- catalase-peroxidase enzyme from, A326
 - drug-resistant, A436
 - isoniazid-resistant strains of, catalase enzyme in, A160
 - katG* gene from, A327
 - structural genomics of, A229
- Mycorrhizas, arbuscular, phosphate transport in, A56
- Myelodysplastic syndrome, bone marrow in, A455
- Myeloid leukaemia invasion, matrix metalloproteinase-7 in, A449
- Myeloperoxidase
- in body's self-defence, A329
 - caeruloplasmin binding to, A321
 - as cause of Alzheimer's disease, atherosclerosis, glomerulonephritis, muscular dystrophy, Parkinson's disease, and emphysema, A306
- Myo-adenylate deaminase deficiency, causes of, A300
- Myoblast, cardiac
- hydrogen peroxide-induced apoptosis of, IGF-I in protection against, A276
 - myogenic differentiation of, p38 MAP kinase activation by phosphoinositide 3-kinase during, A292
- Myocardial infarction, genetic markers of, A299
- Myocardial insufficiency, free radical products and NAD-isocitrate dehydrogenase activity in, A159
- Myocarditis, Trypanosome-induced, protozoan-derived glycosylphosphatidylinositol anchors in, A111
- Myocardium, oxidant status in, isoflurane and, A203
- Myocytes
- biosensors based on, A43
 - cardiac: *see* Cardiac myocytes.
 - Myofibril, myonase localisation in, A344
- Myofibril isoenzyme creatine kinase, from heart during stress, ageing and, A155
- Myogenesis, cell differentiation blockade by calpain inhibitor e-64d in, A293
- Myoglobin, mutants of, containing inserted glutamine repeats, A307
- Myometrium, myosin light chain kinase immunogens in, preterm labour and, A279
- Myonase, as chymotrypsin-like proteinase, myofibril localisation of, A344
- Myosin light chain kinase immunogens, myometrial, preterm labour and, A279
- Myostatin, malnutrition and, in skeletal muscle, A172
- Myotilin, filamin C interaction with, A300
- Myotonic dystrophy, six5 gene in, A299
- N2a neuroblastoma cell differentiation, leptophos and carbaryl and, A438
- Na⁺/Ca²⁺ exchanger function, isoform-specific ionic regulation of, A389

- Na⁺/glucose cotransporter, genetic mutation of, in congenital glucose-galactose malabsorption, A391
- Na⁺/H⁺ exchanger, mitochondrial, A462
- Na,K-ATPase
alpha-1 subunits of, mutational Lys-501 in, A189
cytoskeletal protein association with, in brain neurons, A395
- NAD binding, of pertussis toxin, A77
- NAD glycohydrolase activity, thiol-dependent, T cell antigen R16.1 and, A312
- NADH:quinone reductase reactions, catalysed by mitochondrial complex I, stoichiometry of, A450
- NAD-isocitrate dehydrogenase activity, in myocardial insufficiency, A159
- NADPH-cytochrome P450 oxidoreductase, structural perturbations of, A327
- Nanocrystalline TiO₂ film, protein adsorption on, A44
- Nasal polyp tissue, airway gland cells in, CFTR in, A351
- Natural killer cells
cytotoxic function of, butyltin inhibition of, A440
decidual, trophoblast interaction with, 196
IFN- γ expression in, IFN- α and IL-12 regulation of, A257
IL-18 receptor gene expression in, IFN- α and IL-12 induction of, A491
trophoblast interaction with, cytokines in, A19
- NCC27 ion channel, in soluble and transmembrane state, A471
- NDP kinase, extremophilic, A436
- Necrosis, mitochondria and, 170
- Nedd4, WW domains of, epithelial Na⁺ channel regulation by, A453
- Neem seeds, fatty acid composition in, 880
- Negative regulatory element, activation of DNA-dependent protein kinase by, A333
- Nematodes, bacterial toxins against, A151
- Neonate
brain of, NMR studies of, A9, 126
sepsis in, hepatocyte models of, A26
T cell differential proliferative response to IL-7 in, A30
teratogenic and ontogenic alterations in, drinking water quality and, A434
- Neopterin, neuronal and glial cell death and, A346
- Neospora caninum*, molecular characterisation of NcMIC3 in, A480
- Nepriylisin, in *Caenorhabditis elegans*, A82
- Nepriylisin-like gene family, in *Drosophila*, A81
- Nerve growth factor
functional properties of, A329
prostate cell production of, tetrahydrocannabinol effect on, A339
- Nervous system
enteric, enhancer element for, A385
respiration control by, endothelin-converting enzyme-like I in, 426
- Neuroblastoma, pediatric, MF virus induction of MYCN DNA amplification in, A225
- Neuroblastoma cell N2a, differentiation of, leptophos and carbaryl and, A438
- Neuroblastoma cells
acetylcholinesterase secretion by, cholinergic agonists and, A353
amyloid precursor protein- α secretion in, muscarinic regulation of, A33
mitochondrial permeability of, A205
- protein kinase C and neurotransmitter levels in, A83
- Neurodegenerative disease, GPI-anchored cellular prion protein interaction with laminin in, A347
- Neuron restrictive silencer factor, chromatin remodelling and transcription repression by, A88
- Neuronal cells
apoptosis of, prion peptide stimulation of, A27
caspase inhibitor protection of, A28
death of, neopterin and, A346
IGF-I-stimulated, initiation factor 2B activity in, glycogen synthase kinase-3 in regulation of, A340
- Neuronal nuclei, of developing brain, tissue kallikrein in, A312
- Neuronal signalling, presenilin alteration of, apoptosis and excitotoxicity promoted by, A17
- Neuronal vs. astrocytic differentiation, transcription factors in, A293
- Neurons
apoptosis of, β -amyloid precursor protein interaction with PAK3 in, A14
of brain
calyculin-binding protein in, A443
Na,K-ATPase association with cytoskeletal protein in, A395
phosphatidylinositol 3-kinase-mediated apoptosis of, protection against by glycogen synthase kinase-3 inhibitors, A427
soluble nitric oxide synthase in, in Alzheimer's disease, A36
- Neuropeptidase, gonadal function regulation by, A60, 430
- Neuropeptide(s)
functions of
Caenorhabditis elegans and *Drosophila melanogaster* genomes in study of, 464
in *Drosophila* and *Caenorhabditis elegans*, A61
invertebrate, peptidases in processing of, 460
processing of, peptidases in, in invertebrates, A61
protective, from glial proteins, 452
transcriptional control in, A60
transcriptional control of, 446
- Neuropeptide receptors, signalling initiation and termination by, mechanisms of, 419
- α -Neurotoxin promoter, silencer element in, A179
- Neurotransmitters
glutamate as, 297
protein kinase C and, in neuroblastoma cells, A83
- Neurotrophic factor, glial cell line-derived, tyrosine hydroxylase expression induced by, A239
- Neurotrophins, cortical and hippocampal neural activity induced by, A346
- Neutrophils
apoptosis of, *Pseudomonas* toxins and, A384
effect on α -6-fucosyltransferase release from platelets, A335
- NGF: see Nerve growth factor.
- NhaA, as *Escherichia coli* secondary transporter, structure of, A65
- Nickel ion
cytochrome biosynthesis and, in *Paracoccus denitrificans*, A435
horseradish peroxidase kinetic properties and, A310
- Nickel sulphate, antioxidant system mutation induced by, lipid peroxidation and, A459
- Nicotine, (-)-isomer of, amyloidogenic peptide aggregation and, A306
- Nicotinic acetylcholine receptors: see also Acetylcholine receptors.
quinacrine binding site on, A199
- NifA protein, structure and DNA binding of, A422
- NiFe hydrogenases
membrane-bound, in *Desulfovibrio gigas*, A182
thermophilic, maturation of, proteins in, A197
- Ninein, glycogen synthase kinase-3 β interaction with, A427
- Nishéd, skeletal myogenesis and, A240
- Nitric oxide
basal release of, chylomicron remnants and, in coronary artery, A357
in endothelial cell apoptosis, A376
inhibition of apoptosis by, in gastric mucosa, A375
inhibition of photodynamic therapy-induced apoptosis, A374
metabolism of
in erythrocytes, in chronic renal failure, A310
isoflurane and, A203
mitochondrial functions and, Ca²⁺ concentration and, A449
modulation of Na⁺ current by, in inside-out patches from ventricular myocytes, A461
production of, arachidonic acid metabolism and, in platelet membranes of coronary artery disease patients, A162
SOS DNA repair induced by, in *Escherichia coli*, iron ions in, A165
in *Toxoplasma gondii* stage conversion, A476
- Nitric-oxide synthase
inducible, haem domain of, binding of 1400W to, A316
induction of
in cholangiocarcinoma, A227
in target organs of malaria, A482
nuclear factor- κ B activation and, in astrocytes, p21Ras and, A381
soluble neuronal, in Alzheimer's disease, A36
unsteroid oestrogens and, A333
- Nitric-oxide synthase gene promoter, binding to dithiol residue on nuclear factor- κ B, in hepatocytes, A340
- Nitric-oxide synthase peptides, calmodulin binding region in, in Ca²⁺-dependent interactions with calmodulin, A275
- Nitrobenzylthioinosine, nucleoside transporter sensitivity to, A93
- Nitrogen metabolism, under drought stress, A328
- NK cell: see Natural killer cell.
- NKR-P1 protein, molecular model of, A271
- N-linked glycosylation, thromboxane A₂ receptor and, A34
- N-methylated derivatives, in inhibition of toxicity, in β -amyloid peptide, A72
- NorA(His)₆ multidrug efflux protein, in *Escherichia coli*, A88
- Noxiustoxin, from scorpion, conformational epitope of, A255
- NRD1-NAB3 complex, associated with yeast RNA polymerase II, A442
- Nrf2 transcription factor, GST expression and, in chemoprevention, 33
- NRK cell growth, recombinant human TGF- β and, A338
- ntrC*, in flagellar expression in *Campylobacter jejuni*, A178
- Nuclear export protein, of influenza virus, dynamic conformation of under physiological conditions, A419

- Nuclear factor IL6, staurosporine stimulation of, in osteoblast-like cells, A244
- Nuclear factor- κ B activation of ageing and, A170 nitric-oxide synthase and, in astrocytes, p21Ras and, A381 in spinal cord of experimental allergic encephalomyelitis, A381 dithiol residue on, nitric-oxide synthase gene promoter binding to, in hepatocytes, A340 in early development of *Xenopus laevis*, A386 green fluorescent protein nuclear translocation with, A274 hsp70 binding of, during apoptosis, A380 IL-1 β and TNF- α signal transduction to, IRAK-1 in, A491 modulation by dexamethasone delivery to macrophages, A436 protein kinase cascade control of, A119 RANK activation of, A277 signal transduction through, kinetics of, A280 Nuclear factor- κ B/RelA, activation of, in fibroblasts, MAP kinase signalling pathway in, A295 Nuclear localisation signals, in regulation of *Xenopus laevis* protein ER1 nuclear translocation, A354 Nuclear matrix compartments of, C/EBP- β partitioning between, A289 nuclease associated with, A311 Nuclear matrix protein(s) composition in hepatocytes, in normal/cirrhotic livers, A298 rod-domain of, A248 Nuclear matrix protein P1230/Mat3, matrix attachment region and, A249 Nuclear proteins androgen receptor-interacting, A64 interaction with androgen receptor, 401 phosphorylation of, after apoptosis induction, A383 Nuclear receptors co-receptor interactions of, A63 co-repressor of, huntingtin interaction with, A83 gene targeting and chromatin remodelling by, 405 transcription regulation by, A105 transcriptional repression by, 3907 Nuclear reorganisation, in Trypanosomes, A111 Nuclear shape, peptidylarginine deiminase and, A379 Nuclear transglutaminase, histones modified by, during starfish embryogenesis, A249 Nuclease, nuclear matrix-associated, A311 Nucleolus, Smt3a,b-specific isopeptidase 1 in, A370 Nucleoporins, circumferin interaction with, A443 Nucleoside transporters biological roles of, in *Caenorhabditis elegans*, A93 in mammalian heart, A93 sensitivity to nitrobenzylthioinosine, A93 Nucleoside/nucleobase transporter, novel, from *Plasmodium falciparum*, A90 Nucleosome, asymmetry of, A62 Nucleosome core particle, of chromatin, DNA helical repeat in, 373 Nucleotide excision repair enzyme UvrB in, crystal structure of, in *Thermus thermophilus*, A167 and plasmid-containing triplet repeats in *Escherichia coli*, A166 Nucleotides phospholipase D activity stimulated by, in hepatic stellate cells, A265 single mutations and clastogenic damage of, screening by PCR and endonuclease/glycolase-dependent mechanisms, A164 NupC protein, in *Escherichia coli* construction of, A94 overexpression of, A93, A94 structure and activity of, A88 Oat, storage product accumulation in, during kernel development, 705 Obesity abdominal, type 2 diabetes and, A161 anti-obesity peptides for, from GH, A421 AOD9604 anti-obesity compound in, proteomics and, A261 energy balance in, cold acclimation/deacclimation and, A193 oral drugs for, A192 resting metabolic rate and fasting RQ in, vitamin A consumption and, A159 type 2 diabetes with, molecular pathogenesis of, A104 Octaploidy ancient, in vertebrate genomes, 259 in vertebrate genomes, A23 Oesophageal carcinoma cells, chemotherapy resistance in, chemical modulation and, 27 Oestradiol regulation of mitochondrial BCODH by, A196 in regulation of SV40 T antigen-immortalised endometrial glandular epithelial cell line, A296 Oestrogen(s) environmental breast cancer and, A465 cell assay systems for, A435 unsteroid effects on xanthine oxidase, nitric-oxide synthase, proteinase, DNA, and PARP, A333 unsteroid, aromatase regulation by, A334 *Xenopus laevis* exposure to, in early development, A386 Oestrogen receptors, agonism and antagonism in, A63 structure and, 396 Oestrogenic action, of parabens, on breast cancer cells, A341 Oestrone sulphatase, during retinoid and vitamin D3-induced cell differentiation, A292 Oil hydrocarbon treatment, of microalgae, delayed luminescence and, A403 Oil palm lipase activity in, screening for, 769 palmitoyl-acyl carrier protein thioesterase from, 619 transgenic, production and projection of, 969 Oilseeds of Brassicacea, biotin carboxyl carrier protein isoforms in, 595 of rape carbon supply for storage-product synthesis in, 667 diacylglycerol acyltransferase of, 684 effects of *Arabidopsis* and yeast genes on, 935 plastidial transporters in, for fatty acid synthesis, 665 Oleate desaturase, microsomal, in sunflower, temperature and oxygen regulation of, 890 Oleic acid, in rapeseed-mustard, 581 Oleoyl-phosphatidylcholine desaturase, from *Arachis hypogaea*, 625 Oligodeoxyribonucleotides, antisense, intracellular stability of, A201 Oligonucleotides analysis of, in genomes, A149 antisense, to Bcl-2, apoptosis of tower cells using, A242 arrayed, immobilisation of, A216 with stem-loop structure, PCR hot start with, A363 tandem complex stabilisation of, in nick region, A249 targeted against *Plasmodium falciparum*, A437 Oligosaccharides, of plants, cold adaptation and, A400 Olive callus of, lipoxygenase isoforms in, 830 oil of, quality and stability of, extraction procedures and, 929 tissue of, diacylglycerol acyltransferase in, 695 *Onchocerca volvulus*, new antigens of, A234 Open reading frames, conserved unidentified, in *Escherichia coli*, A228 Optical oxygen sensor, for cell viability screening, A43 Oral cancer, telomerase activity and human papillomavirus infection in, A223 Oral epithelial cells, pathogen-challenged, adrenomedullin expression and, A231 Oral health care products, oxidising, salivary electron-donor consumption by, A45, A46 Oral mucosal tissue, dexamethasone permeation of, A201 Organic acids, inhibition of serine hydroxymethyltransferase activity in embryo neural tube defect by, A438 Organic solvents, volatile, calcium release from sarcoplasmic reticulum by, A46 Organophosphorus sensitivity, PON1 mutations and, A436 Organosulphur compounds, histone acetylation by, A250 Ornithine decarboxylase, from *Plasmodium falciparum*, A452 Orthophosphate dikinase gene promoter, in maize, A243 Osteoblast-like cells, staurosporine stimulation of nuclear factor IL6 and AP-2 in, A244 Osteoblasts, proliferation of, purinoceptor P₁ and P₂ and, A356 Osteopontin, in UMR-106 cells, under mechanical stretching, A174 Osteoporosis, postmenopausal, vitamin D receptor polymorphism and, A162 Osteosarcoma cells, annexin V relocation in, A296 Ouabain-like immunoreactivity, in hypertension, A392 Ovarian cancer *BRCA1* gene mutations in, A224 histopathological issues in, A218 *Ovis ammon*, chromosomal complements and nuclear DNA polymorphism in, A183 Oxalate, renal tubular epithelial cells exposed to apoptosis induced by, A377 JNK activation in, A377 Oxidant status, myocardial, isoflurane and, A203

- Oxidants, in oral health care products, salivary electron-donor consumption by, A45, A46
- Oxidation
of apolipoprotein B, in coronary artery disease, A94
during *Arabidopsis* seed germination, 95
cellobiose, electrochemical investigation of, A20
in lipid metabolism in peroxisomes, 141
mitochondrial, trifunctional protein of, A11
- Oxidation metabolon, mitochondrial trifunctional protein, 177
- Oxidative phosphorylation, cells relying on, Bcl-2 and apoptosis in, A372
- Oxidative reactions
of phytochemicals, A7
phytochemicals and, 22
- Oxidative signalling, in Alzheimer's disease, A17
- Oxidative stress
carvedilol and analogue BM 910228 effect on, A434
cellular proteases and chaperone DnaK in defence against, in *Escherichia coli*, A325
gene expression regulation by, A5
neuroprotective effects of *Halimeda incrassata* and *Bryothamnium triquetrum* aqueous extracts on, A344
- 8-Oxoguanine, excision from hepatocyte DNA, free radical overgeneration and, A165
- Oxygen, sunflower microsomal oleate desaturase and, 890
- Oxygen activation, in copper-containing quinoprotein amine oxidase, A77
- Oxygen production, lymphocyte apoptosis and, A359
- Oxygen radicals, signal transduction by, A138
- Oxylipins
functional aspects of
CYP94A1 hydroxylation of epoxy- and hydroxy-fatty acids, 867
in jasmonate-responsive *Arabidopsis* genes, 863
in plant protein phosphorylation, 870
polyunsaturated fatty acids and *N*-acetylglucosamine effects on free-radical metabolism, in potato, 865
signalling and plant-volatile biosynthesis, 871
in sorbitol treatment of barley leaves, 861
synthesis of
epoxide hydrolase gene in, 855
hexenal formation and, 857
hydroperoxide fatty acid-cleaving activities in, 853
4-hydroxy-2-alkenals in, 850
ketols in, 851
regulation of, 847
- P2 adenosine transporter homologue, of drug sensitive and resistant strains of Trypanosomes, A92
- P2Y receptors, assays for, A199
- p15 and p16 genes, deletion of, in schistosomiasis-associated bladder cancer, A221
- p21CIP1, in cardiac myocyte apoptosis, A367
- p21Ras, in nitric-oxide synthase expression and nuclear factor- κ B activation in astrocytes, A381
- p21WAF1/CIP1, in bladder cancer, schistosomiasis and, A368
- p27KIP1
in Bak-induced arrest of cell cycle, A368
in cardiac myocyte apoptosis, A367
mimosine induction of, A367
- p38 mitogen-activated protein kinase activation by mechanical stress, A424
- phosphoinositide 3-kinase activation of, during myogenic differentiation of cardiac myoblast, A292
- protein kinase C activation of, PAR-2 in, A267
- P52 protein, from *Streptomyces griseus*, cell physiology and, A195
- p53
hsp90b expression regulated by, A243
mutation sites in, in methylchoranthrene-induced fibrosarcoma cells, A180
network of, downstream regulated genes in, A227
stability and transcriptional activity of, hHR23 and ultraviolet light and, A169
- p57 binding sites, on calnexin and calreticulin, A463
- p57KIP2, during embryonic morphogenesis, A387
- p68, structure and binding of, A229
- p70S6K regulation, by Raf/MEK/ERK pathway downstream of muscarinic acetylcholine receptors and receptor tyrosine kinase, A428
- p130, in GABA receptor signalling in hippocampal neurons, A358
- p130 inositol trisphosphate-binding protein, interacting molecules with, A283
- P1230/Mat3 nuclear matrix protein, matrix attachment region and, A249
- P4502b1, targeting to mitochondria and endoplasmic reticulum mechanisms of, A354
protein kinase A phosphorylation and, A349
- PA-IIL lectin gene and protein, from *Pseudomonas aeruginosa*, A180
- PAK3, β -amyloid precursor protein interaction with, in neuronal apoptosis, A14
- Palmitate, as bacterial membrane penetrant, A394
- Palmitate oxidation, in pea tissues, mitochondria and peroxisomes in, 757
- Palmitoyl-acyl carrier protein thioesterase, from oil palm, 619
- Palmitoylated G protein, membrane affinity of, A448
- PaluI, from spider venom, Na⁺ channel blocker from, A276
- Pancreas
cancer of, mutations in K-ras and c-erbB2 expression in, A222
foecal elastase in, in HCV-associated liver disease, A153
lipase and colipase in, in camel, A313
metabolic regulatory mechanisms in, A99
- Pancreatic lipase, porcine, rapeseed lipase cross-talk with, 974
- Papaver rhoeas*, self-incompatibility in, A210
- Papaya fruit
ripening of, A404
softening of, α -galactosidase II in, A456
- Papaya lipase, distinct acyl and alkyl specificities of, compared with microbial lipases, 977
- Papillomavirus infection
cervical abnormalities and, A212
in oral cancer, A223
vaginal discharge in, enzyme activity in, A212
- Parabens, oestrogenic action of, on breast cancer cells, A341
- Paracoccus denitrificans*
catalase from, purification and kinetic properties of, A313
Ni²⁺, Cd²⁺, and Zn²⁺ in, cytochrome biosynthesis and, A435
Paramecium, dynamin homologue in, A355
- Parasites
malaria: see *Plasmodium falciparum*.
transmission of, mitochondrial gene diversity and, A481
- Parasitic nematodes, bacterial toxins against, A151
- Parasitic protozoa: see also Protozoa; specific organism.
tubulins in, A218
- Parkinson's disease
nicotine (-) isomer as protection against, A306
pathogenesis of, myeloperoxidase in, A306
- PARP: see Poly-(ADP-ribose)-polymerase.
- Parsley cells, elicitor-treated, lipoxygenase isoforms in, 827
- Parturition, normal, foetal membrane chorion laeve tissue apoptosis at, A381
- Parvovirus B19 NS1 protein, cloning and expression of, A30
- PAR-2: see Proteinase-activated receptor 2.
- Pasteurella multocida* toxin, functional domains of, A234
- Patched proteins, subcellular localisation of, A464
- Patient education, general practitioner role in, A1
- pC221, relaxation of, A95
- P/CAF, histone acetyltransferase domains of, A106
- PCNA: see Proliferating cell nuclear antigen.
- PDGF: see Platelet-derived growth factor.
- PDK1, in insulin signal transduction, A142
- Peanut, oleoyl-phosphatidylcholine desaturase from, 625
- Peas
choline kinase purification from, 721
cotyledon tissue of, acyl-CoA dehydrogenase in, during germination and initial growth, 760
palmitate oxidation in, mitochondria and peroxisomes in, 757
- Pebulate, fatty acid elongation inhibited by, safener dichlorimid counteraction of, 650
- pemt2* gene, transfection into hepatoma cells, Ras/MAP kinase signal transduction pathway and, A278
- Penaceus schmitti*, microsatellite genetic markers for, A185
- Penicillin amidases, from different sources, A74
- Penicillin-binding proteins, in *Escherichia coli*, A318
- Penicillium chrysogenum* ATP sulphurylase, amino acid replacements in, A320
- Penicillium purpurogenum*, endoxylanase A from, genetic sequence and characterisation of, A179
- Pentose phosphate pathway, in wine yeasts, A145
- Pepper, lipids in, cadmium and, 907
- Peptaibol antibiotic, solid phase synthesis of, A207
- Peptaibols, sequence and structure database for, A92
- Peptidases
functions of, in *Drosophila* and *Caenorabditis elegans*, A61
in invertebrate neuropeptide processing, A61

- in processing of invertebrate neuropeptides, 460
- Peptide(s)
 automated identification of, by mass spectrometry, A124
 bioencapsulated, for wound healing, A361
 fusion-promoting, classification of with depth-weighted insertion hydrophobicity, A148
 photo-regulated helix content of, design and simulation of, A146
- Peptide deformylase, bacterial, hydroxyamic acid derivative inhibition of, A90
- Peptide fibre, sticky-end assembly of, protein fibrillogenesis and, A74
- Peptide transport, in germinating barley grain, A79
- Peptide transporter HvPTR1, in barley, role in germination and grain filling, A407
- Peptidomimics, as ACE inhibitors, A205
- Peptidylarginine deiminase, nuclear shape and, A379
- Peptidylglycine monooxygenase, in recombinant bovine growth hormone, A40
- Peptidylprolyl cis/trans isomerase, from *Xenopus laevis* skin, A256, A492
- Per1 circadian clock-related protein, B10 hypothalamic protein interaction with, A278
- Perfluorooctanoic acid, hepatoma cell apoptosis induced by, A450
- Peripheral artery disease, mortality of, in diabetic patient, glycaemia and, A155
- Periplaneta americana* midgut, β -glucanases from, A310
- Permeabilised cells, Ca^{2+} release from, inositol trisphosphate induction of, A274
- Permeability changes, Cu^{2+} -induced, in plasmalemma, A389
- Peroxidase activity, as stress indicator in tomato leaves, A401
- Peroxisome, structure of, A314
- Peroxisomal disorders, peroxisome biogenesis and, A117
- Peroxisome(s)
 lipid metabolism and, A10
 fatty acid α - and β -oxidation systems in, 141
 in palmitate oxidation, in pea tissues, 757
 of plants, protein import into, A58
 protein import in, 499
- Peroxisome proliferator diethylhexylphthalate, hepatocarcinogenesis induction by, A236
- Peroxisome proliferator-activated receptor(s)
 long chain fatty acid transport-related protein expression regulated by, A393
 in skeletal muscle, in control of muscle-type carnitine palmitoyltransferase I, A285
- Peroxisome proliferator-activated receptor- α , responses mediated by, in hepatocytes, A259
- Peroxisome proliferator-activated receptor- γ response elements cross-talk between, A175
 in GLUT2 promoter, A178
- Pertussis toxin, activation and NAD binding of, A77
- Petunia seed oil, high linoleic acid content of, molecular basis of, 631
- Pex5p, from liver, characterisation of, A354
- Pex10 protein, from *Arabidopsis*, A79
- Pex14 protein, from *Arabidopsis*, A79
- P-glycoprotein, molecular expression of, in gastrointestinal tract, A91
- Pgp, multidrug resistance and, mechanism of resistance to Pgp-unrelated to drugs, A376
- pH
 and Ca^{2+} influx into T cells, A284
 and F-to-O transition of cytochrome c oxidase, A469
 for growth, of *Escherichia coli*, K^+ uptake and, A395
 liposomes sensitive to, as carriers for endoplasmic reticulum-targeted drugs, A458
- Phaeochromocytoma cells
 reactive oxygen species cytotoxicity toward, A437
 virus-induced apoptosis in, A374
- Phaeotheca triangularis*, halophily in, A470
- Phage DNA replication, *lsusO₈* revertants and, A165
- Pharmaceutical industry, graduate skills desired in, A67
- Pharmacy, computer-assisted learning in, A143
- Phenazine derivative, decathymidylate modification by, molecular hybridisation of, A468
- Phenylalanine aminopeptidase, from *Pseudomonas* spp., A308
- Phenylalanine hydroxylase, hepatic, A25
- Phloem function, sucrose transporters in, A57
- Phosphate
 dissociation from actomyosin-ADP-Pi, calcium regulation of, A217
 PHO5 gene expression regulated by, histone acetylation and, A451
 Phosphate deprivation, in *Arabidopsis*, phosphatidylcholine replacement by digalactosyldiacylglycerol in, 729
 Phosphate starvation, *Bacillus* spp. genes inducible by, A238
 Phosphate transport, in roots and arbuscular mycorrhizas, A56
 Phosphate uptake, Gtr1 protein and, in *Saccharomyces cerevisiae*, A199
- Phosphatekinase, of *Salmonella typhimurium*, targeting by *Scutellariae radix*, A194
- Phosphatidic acid, intracellular transport into lipid bodies, in oleaginous fungus, 723
- Phosphatidylcholine
 biosynthesis of, phosphatidylethanolamine *N*-methyltransferase in, A468
 digalactosyldiacylglycerol as substitute for, in phosphate-deprived *Arabidopsis*, 729
 intracellular transport into lipid bodies, in oleaginous fungus, 723
 mitochondrial transport of, photocross-linking in study of, A397
- Phosphatidylcholine-specific phospholipase C and RhoA, in thyrotropin-induced phospholipase D activation, A359
- Phosphatidylethanolamine *N*-methyltransferase, phosphatidylcholine biosynthesis regulation by, A468
- Phosphatidylinositol phosphate kinase, temperature-sensitive allele of, suppressor of, in *Saccharomyces cerevisiae*, A359
- Phosphatidylinositol transfer protein in lipid signalling, A131
 phosphatidylinositol 4-phosphate 5-kinase activation by, A360
 phosphorylation sites on, A360
- Phosphatidylinositol trisphosphate receptors, *Caenorhabditis elegans* centaurins as, A358
- Phosphatidylinositol 3-kinase, neuron apoptosis mediated by, protection against by glycogen synthase kinase-3 inhibitors, A427
- Phosphatidylinositol 3-kinase/Akt signalling pathway, hyperglucose effect on, oxidative damage and, A430
- Phosphatidylinositol 4-phosphate 5-kinase, phosphatidylinositol transfer protein activation of, A360
- Phosphinic peptide chemistry, in zinc metalloproteinase inhibitor development, A61
- Phosphinic peptide inhibitors, in functional studies of zinc metalloproteinases, 455
- Phosphodiesterase IV_{A1}, cAMP-specific, in mammals, A76
- Phosphoenolpyruvate carboxykinases, ATP-dependent, modelling and analysis of, A442
- Phosphoenzyme, formation in H/K-ATPase, acid-labile bound ATP before, A191
- Phosphoglucomutase, in plants, properties of, A406
- Phosphoglycerate kinase, from *C₄* plant *Amaranthus cruentus*, A311
- Phosphoglyceric acid, effect on cytoplasmic pyrophosphatases of photosynthetic bacteria, A192
- Phosphoinositide 3-kinase
 signalling in, A132
 survival signals from, in multidrug resistance in myeloid leukaemia, A27
- Phosphoinositide pathway, in light-dependent *C₄* phosphoenolpyruvate carboxylase phosphorylation cascade, in *Digitaria sanguinalis* protoplasts, 821
- Phosphoinositide 3-kinase, p38 MAP kinase activation by, during myogenic differentiation of cardiac myoblast, A292
- Phosphoinositide-dependent kinase-1, substrates and protein inhibitor of, A283
- Phospholipase A₂
 from rattlesnake, bactericidal activity of, A291
 secreted, family of, A453
 in *tert*-butyl hydroperoxide-induced lipid signalling, in hepatocytes, A282
- Phospholipase A₂, homologue, bothropstoxin-A as, mutagenesis in, A395
- Phospholipase C
 in maturing and germinating *Brassica napus* seeds, 813
 phosphatidylcholine-specific, in thyrotropin-induced phospholipase D activation, A359
 in *tert*-butyl hydroperoxide-induced lipid signalling, in hepatocytes, A282
- Phospholipase C- γ , SH3 domain of, scavenger receptor class B type II interaction with, A269
- Phospholipase D
 activation in RBL-2H3 cells, A205
 in *Arabidopsis* stress response, 813
 Fas-induced activation of
 Ras GTPase in, A359
 tyrosine phosphorylation and, A357
 in maturing and germinating *Brassica napus* seeds, 813
 nucleotide-stimulated activity of, in hepatic stellate cells, A265
 stimulation in glioma C6 cells, by sphingosine, imipramine, and propranolol, A445
 in *tert*-butyl hydroperoxide-induced lipid signalling, in hepatocytes, A282
- Phospholipase D α

- sulphydryl groups in regulation of, A331
 from tomato fruit, 819
- Phospholipase-mediated signalling pathways
 in C_4 phosphoenolpyruvate carboxylase phosphorylation cascade, in *Digitaria sanguinalis* protoplasts, 821
 in maturing and germinating *Brassica napus* seeds, 817
 in stress response of *Arabidopsis*, 813
- Phospholipid(s)
 C1q interaction with, A491
 synthesis of, phosphotransferase motif in, A460
- Phospholipid scrambling, in sphingomyelin hydrolysis to ceramide during apoptosis, A396
- Phospholipid signalling, Ca^{2+} -dependent, in spleen lymphocyte apoptosis, A378
- Phospholipid synthesis: *see also* Complex lipid biosynthesis; Lipid biosynthesis.
 GPI-anchored protein metabolism in *Arabidopsis*, 725
 in lysophosphatidylcholine acyltransferase from *Allium porrum* leaves, 713
Mortierella alpina
 lysophosphatidylcholine acyltransferase, sesamin inhibition of, 718
 pea choline kinase purification in, 721
 phosphatidic acid and phosphatidylcholine intracellular transport into lipid bodies, in oleaginous fungus, 723
 sunflower
 acyl-CoA:lysophosphatidylcholine acyltransferase, purification and photoaffinity labelling of, 715
- Phospholipid-binding protein, Ca^{2+} -dependent, smoking effects on in alveolar cells, A349
- Phospholipid:diacylglycerol acyltransferases, in triacylglycerol production, 703
- Phosphoryl(ATP) transfer, network for, A99
- Phosphotransferase motif, in phospholipid synthesis, A460
- Photoaffinity glycoprobes, for lectin identification, A443
- Photodynamic therapy, apoptosis induced by, nitric oxide inhibition of, A374
- Photophosphorylation, ATP, regulation of proton transfer through CF_0CF_1 under, A190
- Photosensibilisator, melanoma cell apoptosis induced by, A377
- Photosensitiser, cationic, killing of melanoma cells by, A30
- Photosynthesis, optimal, in wheat, A404
- Photosynthetic bacteria, cytoplasmic pyrophosphatases of, effect of phosphoglyceric acid on, A192
- Photosystem(s)
 and *Dunaliella salina* cellular adaptation to salt concentration, A400
 loss of protein ability to bind to, genetic mutation in, A401
- Photosystem II
 three-dimensional structure of, A79
 water oxidising complex of, CO_2^{2+} and, A404
- Phototransduction, in squid, cytoskeletal proteins in, A283
- Phycotoxin, bioanalytical detection of, A46
- Phylogenetic trees, based on genome flexibility, A184
- Physarum polycephalum*, calcium-binding protein from, crystal structure of, A423
- Physomitrella patens*, polyunsaturated fatty acids from, fatty acid elongase specific for, 654
- Phytase
 extracellular, from fungus, A42
 and intracellular mobilisation of Ca(II) in plants, A405
 phytic acid stabilising effect on, in animal feed, A42
- Phytochemicals
 biological and chemical analysis of, A46
 cytotoxicity, genotoxicity, and oxidative reactions in, A7
 effect on cytotoxicity, genotoxicity, and oxidative reactions, 22
- Phytochrome absorbed light, cyclic NMP phosphodiesterases and, A275
- Phytohemagglutinin, lymphocytes stimulated by, UBF gene in, A173
- Phytohormones
 transcriptional regulation of monogalactosyldiacylglycerol gene by, in cucumber, 738
 transduction of, calcium in, A450
- Phytylation, in chloroplast, as protein prenylation, A405
- Pichia pastoris*
 recombinant human collagen in, A55, 353
 in study of intestinal peptide transporter structure-function relationships, A395
- Piezoelectric immunosensor, to detect pathogens in dairy products, A44
- Pigeonpea, vicilin storage protein in, A402
- Pigment composition, of cyanobacteria, glucose concentration and, A398
- Ping-pong bi-bi kinetic mechanism, estimating kinetic constant using different methodologies applied to, A315
- Pinus sylvestris* seeds, ageing in, 878
- PI-ScelI homing endonuclease, catalytic centres of, A332
- Pistachio seeds, glycosomes in, A361
- PKR protein kinase: *see* Serine/threonine protein kinase (PKR) protein kinase.
- Placenta
 HLA-G in, A19, 208
 prolactin-like protein $C\beta$ in, identification and characterisation of, A287
 structure-function relations in, A19, 202
- Plant cells, DNA-encoded antibiotic resistance in, A208
- Plants: *see also specific plant.*
 calcium signalling and calcium channels in, A56
 cell cycle in, control of, A129
 cell death process in, hypoxia and anoxia induction of, A372
 chloroplast envelope of, protein import across, A57, A58, 485, 491
 compounds derived from, reversal of diabetes complications by, A154
 cyclic nucleotide- and Ca^{2+} /calmodulin-regulated channels in, heavy metal tolerance and, A56
 developing, auxin transport in, A57, 481
 endoplasmic reticulum of, transport from to Golgi in, 505
 ω -3 fatty acid desaturases from, 632
 fertilisation utilisation by, A98
 functional genomics of, A131
 glucose-6-phosphate dehydrogenase and phosphoglucomutase properties in, A406
- GPAT in, structure selectivity of, 677
 under HF influence, glutathione reductase in, A402
 intracellular Ca(II) mobilisation in, phytase and, A405
 lipid hydroperoxides in, 837
 microbial sulpholipid degradation in, 781
 mitochondria of, protein import in, 495
 mitochondrial tRNAs in, editing of, A407
 mitosis of, Cdc2 in cytoskeletal structures during, A366
 oligosaccharides of, cold adaptation and, A400
 peroxisomes of, protein import into, A58
 recombinant collagen in, A55
 resistance to stresses, sulpholipid as reflection of, 922
 roots of, phosphate transport in, A56
 signal transduction through Ca^{2+} /calmodulin-regulated channels in, 471, 476
 Δ^6 -sphingolipid desaturases from, 638
 stomatal guard cells in, calcium signalling in, A57
 sucrose transporters in, in assimilate partitioning and phloem function, A57
 transgene insertion in, A169
 transport between endoplasmic reticulum and Golgi in, A59
- Plant-volatile biosynthesis, differential signalling and, 871
- Plasma, lipids in, shark liver oil dietary supplementation and, A343
- Plasma factor, erythrocyte survival and, A29
- Plasma membrane
 compartmentation of, in antigen receptor function, IL-12 in, A254
 hsp70/Hsp90 complex linked to, by dual DnaJ protein binding sites, A353
- Plasma proteins, derived from cholangiocarcinoma, A226
- Plasmalemma
 Cu^{2+} -induced H^+ -ATPase inhibition and permeability changes in, A389
 ion channels of, high temperature exposure and, A393
- Plasmid(s), of streptomycetes, A181
- Plasmid RK2, transfer gene regulation in, A176
- Plasmin, anti-adhesive activity of, A86
- Plasminogen
 kringle 1-3 domain of, A216
 substrate interaction of, streptokinase in, A470
- Plasminogen activator complex, streptokinase sites interacting with during formation of, A202
- Plasminogen activator inhibitor I gene, polymorphism in, in breast and colorectal cancer, A226
- Plasminogen kringle 1-3, in *Escherichia coli*, angiogenin interaction with, A294
- Plasmodium berghei*, mosquito stages of, A475
- Plasmodium falciparum*: *see also* Malaria.
 apicoplast in, A473
 chloroquine accumulation in, A199
 beyond genome of, A112
 genomics of, 541
 haemoglobin catabolism and heme detoxification systems in, as targets of antimalarial drugs, A437
 heme regulation of, A197
 novel nucleoside/nucleobase transporter from, A90
 oligodeoxynucleotides targeted against, A437

- ornithine decarboxylase from, A452
 plastid DNA of, covalently closed circles in, A486
 red blood cell invasion by, A116
 inhibition by band 3 protein degradation, A217
stevor multigene family of, A487
 Plastid gene promoters, organisation of, A148
 Plastidial transporters, in developing oilseed rape embryos, for fatty acid synthesis, 665
 Platelet(s)
 α -6-fucosyltransferase release from, neutrophils and, A335
 Mg^{2+} -dependent binding of collagen by integrin in, calcium concentration and, A85
 Platelet aggregation, snake venom metalloproteinase inhibition of, A308
 Platelet aggregation inhibitors, from ticks, A444
 Platelet-activating factor, adrenaline interaction with, signalling pathways in, A282
 Platelet-derived growth factor cellular proliferation dependent on, ADP-ribosyltransferase and, A297
c-fos and *c-jun* induced by, taurine and, A202
 effect on dermal fibroblast expression of matrix metalloproteinase-1, A84
 MAP kinase activation by, taurine and, A202
 Platinum anticancer drugs: *see also* Cisplatin.
 mitochondrial DNA damage from, repair of, A463
 Point mutations, predicting structural impact of, A78
 Pollen tube pathway, in transfer of reporter gene to chilli seed, A403
 Pollen-stigma incompatibility, in *Papaver rhoeas*, A210
 Polyadenylation, of mRNA, and eukaryote transcription termination, A461
 Polyamine level, in acetoxychavicol acetate-induced apoptosis, A378
 Polyglutamine disorders, molecular basis of, A125
 Polyhydroxyalkanoates, microbial synthesis from lipids, *Pseudomonas corrugata* in, A151
 Polyketide synthases, antibiotic-producing modular, A130
 Polymerase chain reaction of apolipoprotein B gene polymorphism, A153
 of chromium-induced DNA damage, A169
 to detect aminoglycoside-modifying enzymes in bacteria, A191
 hot start, with stem-loop structured oligonucleotides, A363
 Polymers
 electrochemically grown, on metallised electrodes, to reduce electrode fouling in biological matrices, 89
 fibrillar, tau aggregation in, A129
 Polyomavirus-like particles, protein and peptide delivery via, A150
 Polyphenol, leukaemia cell cytotoxicity and apoptosis induced by, A380
 Polyphodiophyta, seasonal variations of DGT5 in, 873
 Poly(ADP-ribose)polymerase
 in calphostin C-induced apoptosis and hydrogen peroxide-induced cellular necrosis, A383
 genetic transcription of, regulation of, A445
 genotoxic stress and, in germinal cells, A293
 unsteroid oestrogens and, A333
 Polyprenoids: *see also* Isoprenoids; Sterols.
 in *Coluria geoides* hairy roots, 790
 Polysaccharide sulphates, IL-8 production and, A257
 Polysaccharides, storage, regulation and control of, A193
 Polyubiquitin gene, polymorphism of, thyroid hormone-induced apoptosis and, A237
 Polyunsaturated fatty acid(s)
 accumulation of, inhibition in plants with fatty acid epoxygenase, 940
 effects on free-radical metabolism, in potato, 865
 elongation enzymes specific for, 658
 fatty acid elongase specific for, 654
 n-3/n-6, chylomicron remnants enriched in, hepatic lipid secretion and, A343
 production by pathway engineering, 661
 synthesis of, in cyanobacteria, at low temperature, 892
 triacylglycerol as reservoir for, in chloroplastic lipid production, in microalgae, 740
 PON1 mutations, organophosphorus sensitivity and vascular disease, A436
 Popular media, science in, A1
 Population genetics, in healthcare delivery, A99
 Pore-forming protein, from sea anemone, action mechanism of, A453
Porphyromonas gingivalis, haemin/iron transport systems of, A183
 Porphyrin probes, phosphorescent, in biosensors, A21, 74
 Potassium channels
 activation gating in, A135
 neuronal, slowing of inactivation at positive potentials in, A453
 2P-domain, structure and function of, A135
 Potassium uptake, by *Escherichia coli*, growth pH and, A395
 Potato
 free-radical metabolism in, polyunsaturated fatty acids and *N*-acetylglucosamine effects on, 865
 tubers of, hydroperoxide fatty acid cleaving activities in, 853
 PPAR- γ response elements: *see* Peroxisome proliferator-activated receptor- γ response elements.
 Preadipocytes, differentiation induction of, proto-oncogene Crk in, A431
 Preeclampsia
 HLA-G in, A20, A47, 215
 IGF-II in, A47, 215
 trinucleotide repeat expansion mutation and, A300
 Pregnancy
 β -carotene level in, A195
 HLA-G in, A20
 maintenance of, hormone-controlled cytokines in, 212
 maternal recognition of, cyclophilin B and, A339
 vitamin A level in, A195
 Premature infants, plasma antioxidant levels in, A154
 Presenilin
 in Alzheimer's disease, A16
 dishevelled activity and, in Wnt pathway, A36
 mutations of, in Alzheimer's brain, A35
 neuronal signalling and, apoptosis and excitotoxicity promoted by, A17
 Presenilin-1, cleavage of, in familial Alzheimer's disease, A305
 Preterm labour, myometrial myosin light chain kinase immunogens and, A279
 Primase, of *Escherichia coli*, *E. coli* helicase stimulation of, A248
 Prion hypothesis, in yeast heredity, A50
 Prion protein
 antioxidant function of, A348
 apoptosis stimulated by, in neuronal cells, A27
 copper effect on, A36, A304
 diseases involving
 determinants of, A348
 molecular biology of, A126
 endosomal, A35
 evolution of, A413
 GPI-anchored cellular, interaction with laminin, A347
 heat shock-modulated expression of, A347
 in live cells, A347
 molecular biology and genetics of, A98
N-glycosylation of, A80
 N-terminal anchorage of, proteinase K-resistant fragment and, A349
 octapeptide repeat region of, in copper homeostasis and endocytosis, A347
 propagation of
 molecular biology of, A126
 in *Saccharomyces cerevisiae*, A348
 proteolytic processing of, A80
 strains of, A126
 Problem-based learning, in teaching of biochemistry, A134
 Procaspase-3, in non-small cell lung carcinoma, A377
 Procollagen α 2(I), promoter elements in regulation of, A241
 Proenteropeptidase, duodenase cleavage of, A469
 Pro-gelatinaseA, activation mechanism of, A314
 Progesterone
 G protein-coupled receptors for, in plasma membrane of fungus, A268
 oocyte maturation induced by, casein kinase 2 and, A386
 Proinsulin, folding pathway of, A136
 Prokaryotes, arylamine *N*-acetyltransferase-like sequences in, A420
 Prokaryotic expression vectors, translational initial region of, A236
 Prolactin, glycosylated, biochemical characterisation of, A335
 Prolactin-like protein C β , placental, identification and characterisation of, A287
 Proliferating cell nuclear antigen, aphidicolin-resistant, from Chinese hamster ovary cells, A252
 Proliferating cell nuclear antigen-binding subdomain, and cytotoxic overexpression of DNA methyltransferase 1, A182
 Prolyl oligopeptide family, dipeptidyl peptidase as member of, A307
 Prolylendopeptidase, inhibition of, effect on amyloid precursor protein processing by γ -secretase, A33
Prophyromonas gingivalis, oral epithelial cells challenged by, adrenomedullin expression and, A231
 Propranolol, phospholipase D stimulation by, in glioma C6 cells, A445
 Proscillaridin A-like immunoreactivity, in hypertension, A392
 Prostacyclin receptor antibody, as marker for cardiovascular disease, A157
 Prostate cancer, apoptosis in, A381
 Prostate cancer cells
 drug-induced apoptosis of, protein kinase CK2 protection against, A371

- progression of, low molecular weight factor in foetal calf serum and, A369
- Prostate cells, NGF production by, tetrahydrocannabinol effect on, A339
- Prostate epithelial cells, seminal plasma activation of adenyl cyclase and caspase-3-independent apoptosis in, A384
- Prostate specific antigen, correlation with IGF-I and GH, in infertile male, A298
- Protease(s)
- cellular, in defence against oxidative stress, in *Escherichia coli*, A325
 - as probe of xylanase Xln A from *Chaetomium thermophilum*, A420
- Protease assays, in SPECTRAmax GEMINI spectrofluorometer, caspase-3 in, A364
- Protease Lon, ATP-dependent, from *Escherichia coli*, A317
- Protease-activated receptor-2, in sublingual and gastric mucosal mucin secretion, A351
- Proteasomes
- erythropoietin receptor activation and, A284
 - in specific mRNA degradation, A241
- Protein(s)
- adhesive, plasmin and, A86
 - adsorption on nanocrystalline TiO₂ films, A44
 - alcohol effects on, SH titration in study of, A460
 - automated identification of
 - with direct flow control capillary chromatography and ESI-MS/MS, A260
 - by MALDI-MS, A260
 - by mass spectrometry, A124
 - Q-TOF ESI-MS/MS in, A260
 - $\alpha_2\beta_2$, assembly of, GroEL/GroES-promoted dissociation/reassociation cycles of, A450
 - of bacterial Tat, export pathway of, A58
 - binding to photosystem(s), genetic mutation in, A401
 - biosynthesis of, biochemical modification of, A256
 - cellular translocation of, A364
 - chloroplast importing of, A127
 - combinatorial chemistry of, A125
 - complexes of, gene function in, A120
 - conformation of, self-perpetuating changes in, A137
 - cytosolic and nuclear, tyrosine phosphorylation of, during apoptosis, A379
 - degradation of, in proliferating mammalian cells during cell cycle, A367
 - design of
 - from helical bundles to protein fibre, A52
 - in silico* method in, A69
 - domain structure in, hierarchy of, A457
 - efflux
 - anion-translocating ATPase as, structure-function relationships in, 520
 - multidrug, 513
 - recognition of, 517
 - fatty acid synthase II interactions in, 615
 - folding of, trigger factor assistance in, A414
 - functions of, genome sequences and, A120
 - glycated, lymphoid cell adhesion to, A449
 - GPI-anchored
 - from *Eimeria*, A481
 - green fluorescent, expression on hamster cell surface, A396
 - in moss, 589
 - prion, laminin interaction with, A347
 - GS element-encoded, in *Mycobacterium avium*, A76
 - heat-induced structural changes in, A411
 - high throughput expression, purification, and characterisation technologies of, A263
 - ideal forms of, 264
 - immunoprecipitation of, superparamagnetic MicroBeads in, A215
 - import of, across chloroplast envelope, 485, 491
 - interactions of
 - in cytochrome P450 monooxygenase systems, A415
 - in desmosomal cadherins, A399
 - detection by yeast two-hybrid system, A260
 - in eukaryotic signalling, A146
 - proteasome functional analysis and, A120
 - merging classes of, A417
 - methylated DNA binding by, A113
 - mitochondrial, targeting of, A126
 - during apoptosis, A127
 - modules and signalling networks of, A127
 - N-linked, glycosylation of, in endoplasmic reticulum, A123
 - N-myristoylation and N-acetylation of, N-terminal sequence requirements for, A355
 - oxidised, turnover of, during recovery of yeast cells from hydrogen peroxide stress, A294
 - poly(His)-tagged recombinant, purification using HisTrap, A261
 - predicting structure of, in *Leishmania*, A479
 - protective, derived from glial proteins, A61
 - RNA interaction with, A71
 - secondary structure prediction methods, A78
 - secretion of in *Trichoderma reesei*, mannose metabolism gene transcription and, A336
 - secretory, coat protein-mediated packaging of, A115
 - separated by two-dimensional gel electrophoresis, MALDI-MS and Q-TOF MS of, A152
 - sequences of
 - log-odds scoring matrices calculated from, A261
 - structure and function prediction by, A22
 - sequence-structure relationship in, A147
 - sialylation of, recombinant, metabolic engineering of, A259
 - single, recognition of multiple drugs by, A65
 - solute transport, comparative analysis of, A90
 - structure of
 - genome sequences and, A23
 - sequence and, A22
 - synthesis of, FCCP inhibition of, A345
 - traffic of, lectins and, in secretory pathway, A133
 - transport across blood-air barrier in alveolar epithelial cell monolayer, A389
 - trifunctional, of mitochondrial β -oxidation, A11
 - Protein disulphide isomerase
 - as gene fusion partner, in *Bacillus brevis* expression and secretion system, A215
 - of yeast, biochemical analysis of, A452
 - Protein Ero1-L, structure of, A409
 - Protein expression system, rapid, A239
 - Protein fibrillogenesis, sticky-end assembly of peptide fibre and, A74
 - Protein folding: *see also* Protein unfolding.
 - aggregation and, relationship to disease, A137
 - amyloidosis and, A50
 - at atomic resolution, A52
 - chaperone GroEL in, A70
 - chaperone-assisted, in cytosol, A140
 - co-translational, in living cell, A140
 - disease and, A50
 - helical, partially folded states in, A69
 - in α -helical proteins, A70
 - α -helix in, A52
 - manipulation of, A50
 - molecular chaperones in, A51
 - pathways for
 - prediction of, A49
 - structural characterisation of, A136
 - prediction of, A49, A446
 - in *Pyrobaculum aerophilum*, A446
 - simulations of, A52
 - β -structure in, A49
 - Protein import
 - in peroxisomes, 499
 - across plant chloroplast envelope, A57, A58
 - into plant peroxisomes, A58
 - in yeast mitochondria, 495
 - Protein kinase
 - cascade of, nuclear factor- κ B control by, A119
 - DNA-dependent, DNA activators of, A333
 - RNA-activated, FCCP induction of, A345
 - Protein kinase A
 - amyloid A activating factor and, A242
 - Aspergillus niger* morphology and, A425, A457
 - molecular organisation of, A142
 - phosphorylation of, and P4502B1 targeting to mitochondria and endoplasmic reticulum, A349
 - Protein kinase A pathway, in glycogen synthase kinase-3 β induction, A305
 - Protein kinase B pathway, EGF-activated, TGF- β perturbation of, A370
 - Protein kinase C
 - activation of, cross-talk with radiation-induced apoptosis of T cells, A379
 - activation of JNK and p38 MAP kinase, PAR-2 in, A267
 - in Bcl-2 activation of ERK-1/2, A456
 - in chondrocyte
 - differentiation/dedifferentiation, A86
 - diacylglycerol-dependent, activation of, inhibition of fibroblast-mediated collagen cell contraction by, A85
 - in IL-1 β -mediated ICAM-1 expression, tyrosine kinase in, A427
 - measurement of, in X-irradiated cells, A214
 - in monocytes, A280
 - neurotransmitter level and, in neuroblastoma cells, A83
 - in nucleotide-stimulated phospholipase D activity in hepatic stellate cells, A265
 - Protein kinase C δ
 - DIK interaction with, A425
 - localisation in small intestine in APC defect, cyclooxygenase inhibitors and, A432
 - Protein kinase CK2, protective role of against drug-induced apoptosis in prostate cancer cells, A371

- Protein phosphatase 1
in *Drosophila* developmental signalling, A425
interaction with IFN-induced PKR protein kinase, A433
- Protein phosphorylation
and gibberellin signalling in rice, A276
in plants, (9Z)-12-hydroxy-9-dodecenoic acid and methyl jasmonate in, 870
- Protein P0 domain, interaction with 26S rRNA, in *Saccharomyces cerevisiae*, A211
- Protein refolding, ribosome-mediated, A68
- Protein repertoires, evolution of, A107
- Protein translocase machine, ATP catalysis by, A116
- Protein tyrosine kinase LCK, association with protein tyrosine phosphatase CD45 and adaptor protein LAT, A428
- Protein tyrosine phosphatase, FAP-1 PDZ domain of, peptide binding studies of, A429
- Protein tyrosine phosphatase CD45, association with LCK and LAT, A428
- Protein tyrosine phosphorylation, ubiquitin-like polypeptide induction of, A432
- Protein unfolding
atomic force microscope and fluorescence in, A69
of β 2-microglobulin, A68
of β -sheet Y74W, A69
- Protein-acetylating and protein-methylating coactivators, in transcriptional activation, A64, 415
- Proteinase, unsteroid oestrogens and, A333
- Proteinase inhibitor, from *Baubinia variegata*, A416
- Proteinase K-resistant fragment, in prion protein N-terminal anchorage, A349
- Proteinase-activated receptor(s), signalling initiation and termination by, mechanisms of, 419
- Proteinase-activated receptor 2
intracellular signal transduction and, A271
in protein kinase C activation of JNK and p38 MAP kinase, A267
- Protein-tyrosine phosphorylation, in egg cycling extracts of *Xenopus laevis*, A434
- Proteoglycan(s)
integrin cooperation with, proteoglycan cooperation with, A269
in midkine receptor, A269
- Proteomes
functional analysis of, protein interactions and, A120
during trypanosome differentiation events, A486
- Proteomics
anti-obesity compound AOD9604 action and, A261
in cancer, A131
glycoenzyme folding and activity and, A124
of heart transplantation rejection, A264
- Prothrombin activator mikarin, from snake venom, A311
- Prothymosin alpha, cellular receptors for, A270
- Proton transfer
through CF₀CF₁, ATP regulation of, under photophosphorylation, A190
time-resolved observation of, A110
- Proto-oncogene c-Cbl, E3 ligase activity of, ubiquitin-associated domain in, A465
- Proto-oncogene Crk, in differentiation induction of preadipocytes, A431
- Protozoa: *see also specific organism.*
endoplasmic reticulum of, glycoprotein folding in, A124
glycosylphosphatidylinositol anchors derived from, pro-inflammatory activity of, A111
parasitic, tubulins in, A218
- Pseudomonas aeruginosa*
EPSP synthase from, A332
LasA specificity of, with tropoelastin pentapeptides as substrates, A323
PA-IIL lectin gene and protein from, A180
virulence and autoinducers of, ethanol and choline effects on, A232
- Pseudomonas aeruginosa* lectins, inhibition by avian egg white glycoproteins, A231
- Pseudomonas corrugata*, in polyhydroxyalkanoate synthesis from lipids, A151
- Pseudomonas* spp.
barotolerant, inner membrane lipids in, A397
fatty alcohol-induced thermostable lipase genes from, A193
phenylalanine aminopeptidase from, A308
- Pseudomonas* toxins, neutrophil apoptosis and, A384
- Pterin level, in old age, A346
- Public education
about science
language in, A2
popular media in, A1
Merville Lay Seminars in, A2
by whom, A2
- Puccinia hordei*, barley resistance to, gene mapping of, A209
- Pulmonary damage, hyperoxic, cytochrome P450 monooxygenases in, A161
- Purine biosynthesis, transformylase enzymes in, A122
- Purine transporters, from trypanosomes, A482
- Purinoceptor P₁ and P₂, osteoblast proliferation and, A356
- Pyknosis, chromatin structure of, apoptosis and, A373
- Pyrimidine catabolism, β -alanine aminotransferases and, A198
- Pyrimidine synthesis, in *Toxoplasma gondii*, A479
- Pyrobaculum aerophilum*
predicted protein folding in, A446
structural genomics of, A229
- Pyrophosphatase(s)
cytoplasmic, of photosynthetic bacteria, effect of phosphoglyceric acid on, A192
inorganic
from *Archaeoglobus fulgidus*, A317
in *Bacillus subtilis*, A313
from lactic acid bacteria, A319
- Pyruvate dehydrogenase kinase(s)
isoenzymes of, specificity toward phosphorylation sites, A330
in liver, A195
- Pyruvate kinase
hepatic, and heat acclimation after thyroidectomy, A194
K⁺-independent, dimethyl sulphoxide and, A319
of *Leishmania*, crystal structure of, A12
- Qp site, of *Escherichia coli* menaquinol: fumarate oxidoreductase, A190
- Q-time-of-flight mass spectrometry in automated identification of proteins, A260
- of proteins separated by two-dimensional gel electrophoresis, A152
- Q-TOF MS: *see* Q-time-of-flight mass spectrometry.
- Quantitative trait loci analysis, of *Arabidopsis*, A210
- Quantum Dot, semiconductor nanocrystals from, A291
- Quantum world, enzymes in, A1
- Quillaja saponaria* molina, saponins from, A204
- Quinacrine, binding site for, on nicotinic acetylcholine receptor, A199
- Quinone structure, and interaction with model membranes, A461
- Quinoprotein amine oxidase, copper-containing, oxygen activation in, A77
- Rab geranylgeranyltransferase, in wheat seedlings, A360
- Rab4-interacting protein, identification and characterisation of, A41
- Raf/MEK/ERK pathway, downstream of muscarinic acetylcholine receptors and receptor tyrosine kinase, p70S6K regulation by, A428
- RAGE, as β -amyloid fibril signal transduction receptor, A14
- Ralstonia solanacearum*, resistance-specific hsp70/hsp70 induction in tomato by, A401
- RAMP-1: *see* Receptor activity-modifying protein-1.
- RAMP1-GST fusion protein, in study of CGRP receptor, A265
- Rana catesbeiana*, polyubiquitin polymorphism in, thyroid hormone-induced apoptosis and, A237
- RANK: *see* Receptor activator of nuclear factor- κ B.
- RAP74, androgen receptor interaction with, A88
- Rapeseed
carbon supply for storage-product synthesis in, 667
development of, Acyl-CoA elongase during, 645
diacylglycerol acyltransferase of, 684
oil from
Limnanthes douglasii erucic acid-specific lysophosphatidic acid acyltransferase activity in, 964
porcine pancreatic lipase cross-talk with, 974
plastidial transporters in, for fatty acid synthesis, 665
- Rapeseed oil, effects of *Arabidopsis* and yeast genes on, 935
- Rapeseed-mustard, fatty acid composition in, 581
- Rapid gene expression profiling, RAGE system for, A173
- Ras GTPase, in Fas-induced phospholipase D activation, A359
- Ras/mitogen-activated protein kinase signal transduction pathway, in *pemt2* gene transfection into hepatoma cells, A278
- Ras/Raf/ERK pathway, 5'-AMP-activated protein kinase in, A429
- Rattlesnake, phospholipase A₂ from, bactericidal activity of, A291
- Rat-1 fibroblast mitogenesis, lysophosphatidic acid and sphingosine 1-phosphate stimulation of, A357
- Rat-2 fibroblasts, adrenomedullin receptors in, desensitisation of, A267
- RBCK1/Parkin-like RING-IBR protein yRBCK1, from *Saccharomyces cerevisiae*, A288
- RBL-2H3 cells

- casein kinase II-like ectokinase activity on, A433
- serotonin and β -hexosaminidase secretion in, differential regulation of, A200
- serotonin and phospholipase D activation in, A205
- Reactive oxygen species, cytotoxicity of, toward pheochromocytoma cells, A437
- RecA-motor, DNA repeats realignment by, ATP hydrolysis and, A168
- Receptor activator of nuclear factor- κ B JNK and nuclear factor- κ B activation by, A277
- TRAF family adaptor recruiting by, A277
- Receptor activity-modifying protein-1 (RAMP-1)
as accessory molecule in complexes with two CGRP receptors, A202
- CGRP binding and, A272
- Receptor protein tyrosine phosphatase, brain Na⁺ channel modulation by, A437
- Receptor tyrosine kinase genetics of, in Hirschsprung disease, A302
- Raf/MEK/ERK pathway downstream of, p70S6K regulation by, A428
- Red blood cells: *see* Erythrocytes.
- Redox
glycolipid synthesis regulation by, A398
- GSTP1 alpha-2 loop as sensor of, A5
- modulation of calcium release channels by, from excitable cells, A136
- Redox state, of cell, cellular signalling and, A280
- Redox-Bohr-linked energy transduction, structural bases for, A110
- Rel/nuclear factor- κ B genes, in early development of *Xenopus laevis*, A386
- Renal failure
acute, cisplatin-induced, A200
- chronic, erythrocyte nitric oxide metabolism in, A310
- myoglobinuric, kidney heme oxygenase-1 in, A156
- Renal tubular acidosis, anion exchanger mutants in, trafficking of, A354
- Renal tubular cells
exposed to metal ions, cytological and biochemical studies of, A382
- exposed to oxalate
apoptosis in, A377
- JNK activation in, A377
- Replicative senescence: *see* Senescence, replicative.
- Respiration
of Cyanobacteria, A190
- nervous control of, endothelin-converting enzyme-like I in, 426
- Respiratory chain, discovery of, A144
- Respiratory complex, structural studies on, A100
- Respiratory protein complexes, of cardiac mitochondria, fenvalerate alterations of, A191
- Respiratory syncytial virus, infectivity of, lung surfactant proteins A and D in, A490
- Respiratory system, aerobic, of *Eikenella corrodens*, A189
- Resting metabolic rate, in obesity, vitamin A consumption and, A159
- Restriction, proteolytic control of, by EcoKI, A177
- Retina
degeneration of, guanylate cyclase activating protein 1 mutation and, A380
- K-ras oncogene expression in, bleomycin-induced changes in, A238
- Retinoblastoma protein, in modulating AFT2 actions, A244
- Retinoid
cell differentiation induced by, oestrone sulphatase activity during, A292
- heregulin synergy with, in inducing branching morphogenesis of breast cancer cells, A455
- Retinoid X receptor response element, in connexin 32 promoter, A236
- Retrotransposone, L1, reverse transcriptase encoded by, A237
- Reverse transcriptase
encoded by L1 retrotransposone, A237
- of HIV, A308
- Reverse transcription, cDNA microarray probes and, A228
- RFamide peptide, sequence and localisation of, A207
- RFLP, in detection of *N*-acetyltransferase gene T341C mutation, A365
- RGD-containing peptides, apoptosis of leukaemia cells induced by, caspase-3 activation in, A445
- Rhizopus nigricans*
hsp70 genes in, A171
- plasma membrane of, G protein-coupled receptors for progesterone in, A268
- Rho
in cytoskeletal dynamics, A118
- signal transduction and physiological roles of, A137
- Rho1 guanine exchange factor Rom2, *Saccharomyces cerevisiae* cell integrity signalling activated by Hcs77 and Mid2 through, A281
- RhoA, phosphatidylcholine-specific, in thyrotropin-induced phospholipase D activation, A359
- Rhodobacter capsulatus*
ATP-synthase of, coupling mechanism of, A448
- exogenous gene clusters in, A183
- Rhodococcus erythropolis* Y2, haloalkane dehalogenase gene *dhaA* from, expression in *Escherichia coli*, A153
- Rhodopsin-retinal complex, molecular model of, using BUNDLE program, A448
- Ribes nigrum* leaves, fatty acids in, 583
- Riboflavin
chemical and biological versatility of, 283
- supplementary, fasting homocysteine level and, A26
- Ribonuclease 5' complementation, in biological system thermodynamic molecular switch, A410
- Ribonucleases, secreted from *Bacillus* spp., A244
- Ribonucleotide reductase
class III, occurrence, structure, and mechanism of, A123
- in proliferating mammalian cells during cell cycle, A367
- Ribonucleotide reductase R2 gene, promoter region of, A286
- Ribose-phosphate synthesis, antitumour drugs based on, A220
- Ribosome
binding to mitochondria surface, A457
- functional topography of, A104
- internal entry site for, cell cycle dependence of, A369
- particles of, at close to atomic resolution, A109
- structure of
cyro-electron microscopic study of, A109
- in 30S, A103
- in 50S, A103
- translation mechanism and, A103
- Ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco), from *Thermococcus kodakaraensis*, crystal structure of, A418
- Ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) activase, in maize, A400
- Rice
bacterial blight resistance of, A291
- gibberellin signalling in, protein phosphorylation and, A276
- α -hydroperoxide-forming enzyme in, molecular characterisation of, 765
- molecular breeding of, A289
- self-defence mechanisms in, jasmonates in, A437
- sucrose synthase inhibition in, by trinitrobenzenesulphonic acid and diethylpyrocarbonate, A406
- tissues of, glycerolipid composition of, 586
- Rice seedlings
invertase from shoots of, A402
- Mn²⁺-dependent sucrose synthase kinase from, A407
- stress-specific proteins in, cadmium and, A468
- Ricin
A-chain of, ribosome-mediated refolding of, A68
- structure of, xylanase structure and, A417
- River buffalo, evolution of α -globin genes in, A186
- RK2 plasmid, transfer gene regulation in, A176
- RNA
in homochirality, A96
- protein interaction with, A71
- structure of, A71
- RNA interference
in *Caenorhabditis elegans*, A122
- inducible
in determination of gene function, A217
- gene function determination by, A476
- RNA polymerase II
elongating form of, histone acetyltransferase in, A62
- nucleosome and, A105
- in yeast, NRD1-NAB3 complex associated with, A442
- RNA polymerase interactions, in *Escherichia coli*, A287
- RNA sequence, evolution of, with secondary structure constraints, A185
- RNA-binding proteins
from *Crithidia fasciculata* mitochondria, A484
- from spinach chloroplasts, CDPK phosphorylation of, A431
- RNase Rh, B2 base recognition site of, A262
- ROK, in cytoskeletal dynamics, A118
- Rom2, *Saccharomyces cerevisiae* cell integrity signalling activated by Hcs77 and Mid2 through, A281
- Rotary wall vessel, three-dimensional, analysis of gene expression after target cell contact in, A172
- Rotavirus, human group C, VP3 gene of, A213
- rpoN*, in flagellar expression in *Campylobacter jejuni*, A178
- rpS21* gene, HLDF derivation from, during HL-60 differentiation, A238
- Rsp5p WW domains, uracil permease endocytosis and internalisation and, A350

- Rt6.1 T cell antigen, thiol-dependent NAD glycohydrolase activity of, A312
- Ru(bpy)₃²⁺: *see* Ruthenium(II)-tris-(bipyridyl).
- Rubisco: *see* Ribulose-1,5-bisphosphate carboxylase/oxygenase.
- Ruthenium(II)-tris-(bipyridyl), electrogenerated chemiluminescence of, immunosensor based on, A45
- Ryanodine receptors calcium release channels in, in Alzheimer's disease, A18 isoform structures in, A394
- Saccharomyces cerevisiae*
 α -factor receptor of, structure and function of, A272
Caenorhabditis elegans
 acyl-CoA:diacylglycerol acyltransferase cDNA expression in, 692
 cell integrity signalling in, Hcs77 and Mid2 activation of, through Rom2, A281
 expression of mutated glucose-6-phosphate dehydrogenase gene in, A300
 Fps1p glycerol exporter from, A91
 G protein-coupled receptor-mediated processes in, biological effect assays for, A268
 Gtr1 G-binding protein from, A392
 Gtr1 protein and phosphate uptake in, A199
 halophily in, A470
 heredity in, prion hypothesis in, A50
 histone deacetylase Hos3p in, structure-function studies of, A250
 histone processing in, A41
 L25 mutant in, complementation by *Arabidopsis* L23A protein, A211
 mitochondrial DNA in, Din7p overproduction and, A165
 multiple drug resistance in, A122
 pentose phosphate pathway in, A145
 PHO5 gene from, phosphate-regulated expression of, histone acetylation and, A451
 prion propagation in, A348
 recombinant human collagen in, A55
 recovery from hydrogen peroxide stress, glucose metabolism and oxidised protein turnover during, A294
 resistance to UV light, DNA damage-induced UMP1 in, A167
 ribosome of, protein P0 domain interaction with 26S rRNA in, A211
 temperature-sensitive allele of phosphatidylinositol phosphate kinase in, suppressor of, A359
 triacylglycerol accumulation in, acyl-CoA:cholesterol acyltransferase in, 700
 yRBCK1 protein from, A288
- SAF, in regulation of IL-6-induced gamma fibrinogen gene, in hepatocytes, A241
- SAF-A, binding specificity of, satellite DNA bending state and, A245
- Safener dichlorimid, in counteraction of pebulate inhibition of fatty acid elongation, 650
- Salinity, IGF and HNF induction by, in gill of euryhaline teleost, A341
- Saliva
 Ca²⁺ in, citrate complexation by, A45
 electron-donor consumption in, by oxidising oral health care products, A45, A46
 NMR analysis of, A45
 Saliva peroxidase, in body's self-defence, A329
 Salivarin B, genetic sequence of, A246
- Salmo salar*, expressed genes from, A171
 Salmon, Atlantic, expressed genes from, A171
Salmonella typhi infection, chronic, gallbladder cancer and, A225
Salmonella typhimurium
 catalase from, purification and kinetic properties of, A313
 KCN-cytochrome *d* complex in, interaction of azide and fluoride with, A189
 Salt concentration, *Dunaliella salina* cellular adaptation to, effects of photosystem and photochemistry on, A400
 Salt stress, of yam, A152
 Saponins, from *Quillaja saponaria* molina, A204
 SAP-1: *see* Stomach cancer-associated protein-tyrosine phosphatase-1.
Sarcocystis hominis-like cyst, in water buffalo, rRNA gene sequences of, A487
 Sarcoplasmic reticulum calcium release from by volatile organic solvents, A46
 Ca²⁺ pump in, regulation of, A136
 Satellite DNA bending state, effect on SAF-A and lamin B binding specificity, A245
 SCAR/WAVE, molecular organisation of, A142
 Scavenger receptor, class B type II of, interaction with phospholipase C- γ SH3 domain, A269
 Schistosomiasis
 bladder cancer associated with, deletion of p15 and p16 genes in, A221
 p21WAF1/CIP1 and, in bladder cancer, A368
 Schizophrenia
 chromosomal breakpoint region in, A303
 genetic disruptions in, A302
Schizosaccharomyces pombe, DNA ligase I of, N-terminal domain functions of, A251
 Schwann cell precursor pool, *erbB2* in myelination and expansion of, A386
 Science, in popular media, A1
 Scorpion, noxiustoxin from, conformational epitope of, A255
 Scorpion *Bukatoxin*, three-dimensional structure of, A207
 Scorpion venom, acetylcholine in, A437
 Scrumpi, as metabolic model control language, A196
Scutellariae radix, targeting polyphosphatekinase of *Salmonella typhimurium*, A194
 Sea anemone, equinatoxin II from, action mechanism of, A453
 Sea urchins, collagen of, dynamically controlled stiffness in, A55
 Seagrass, thermoadaptation of, lipids in, 887
 Seasonal variations, in DGTS, in Polypodiophyta, 873
 Secretase
 amyloid precursor protein processing by, prolylendopeptidase inhibition and, A33
 cleavage of
 ACE ectodomain sensitivity to, A262
 juxtamembrane stalk of angiotensin-converting enzyme and, A80
 mechanisms in β -amyloid peptide, mass spectrometry of, A34
 Secretin/glucagon family, physiological function of, A206
 Secretory pathway
 lectins and protein traffic in, A133
 of yeast, organisation of, A115
- Secretory proteins, coat protein-mediated packaging of, A115
 Seed germination, in *Arabidopsis*, expression of AtMFP2 and fatty acid β -oxidation genes in, 95
 Seed storage protein vicilin, in pigeonpea, A402
 Selenium, chemopreventive compounds of, apoptosis induction by, A221
 Self-incompatibility, in *Papaver rhoeas*, A210
 Semen analysis, for male infertility, A230
 Semiconductor nanocrystals, from Quantum Dot, A291
 Seminal plasma, adenyllyl cyclase activation and caspase-3-independent apoptosis activation by, in prostate epithelial cells, A384
 Semiferous tubular fluid, GST isoforms in, A316
 Semliki Forest virus, capsid protein of, internal hydrophobic motif in, A213
 Senescence: *see also* Aging.
 cellular, ageing and, A2, 221
 cucumber matrix metalloproteinase gene in, A173
 of immune response biochemical basis of, A3
 causes and reversal of, A4
 replicative
 as cancer barrier, A3, 226
 in viral infection, A4, 255
 Sepsis, neonatal, hepatocyte models of, A26
 Sequence analysis, comparative, A107
 SERCA2b protein, stress induction of, A33
 Serine acetyltransferase, production by transgenic tobacco plants, A262
 Serine carboxypeptidase, from *Fusarium moniliforme*, cloning and sequencing of, A324
 Serine hydroxymethyltransferase activity, in embryo neural tube defect, inhibition by non-protein amino acids and organic acids, A438
 Serine palmitoyltransferase
 cloning and characterisation of, in *Arabidopsis*, 745
 LCB1 and LCB2 components of, A314
 Serine proteases
 in complement system, 545
 of complement system, A488
 variants of, from snake venom, A323
 Serine proteinases
 of coagulation system, inhibition by BPT1 mutants, A459
 inhibitors of, from white sword bean, A421
 from *Vibrio* PA-43, A312
 Serine/threonine protein kinase (PKR)
 protein kinase, IFN-induced, protein phosphatase 1 interaction with, A433
 Serine/threonine protein phosphatase type 5, from Trypanosomes, A426
 Serotonin, in RBL-2H3 cells, regulation of, A200, A205
 Serotonin receptor, antipeptide antibody AC G21V raised against, agonist-like effects of, A254
Serratia marcescens nuclease, isoforms of, regulating secretion of, A441
 Sertoli cells, transfected telomerase in, extended lifespan and, A295
 Sesamin, inhibition of lysophosphatidylcholine acyltransferase from *Mortierella alpina*, 718
Setaria digitata, hsp70 gene from, A444
 Severe combined deficiency phenotype, activation of DNA-dependent protein kinase by, A333
 Sex hormones, in blood plasma of men, motor performance and, A197

- Sex-determining region Y gene (Sry), molecular evolution of, A186
- SH titration, in study of alcohol effects on proteins, A460
- Shark liver oil, dietary supplementation with, effects on plasma, liver, and aortic lipids, A343
- Shc translocation, EGF-induced, in upregulation of tyrosine kinase c-Src, A432
- Shellfish, contaminated with dinoflagellate toxins, biosensors to detect, A44
- SHERP (small hydrophilic endoplasmic reticulum-associated protein), in infective stage of *Leishmania*, A352
- Shigella boydii*, IS1 element from, A180
- Shigellosis, serotype conversion of *Shigella flexneri* in, A231
- Shikimate kinase II, unfolding of, from *Erwinia chrysanthemi*, A410
- Shikimate pathway enzymes, molecular architecture of, A130
- Shrimp
- pink, microsatellites in, A182
 - white, microsatellite genetic markers for, A185
- Sialylation, of recombinant protein, metabolic engineering of, A259
- Sialyltransferase, in liver and spleen, in acute and chronic stress, A458
- Signal transduction
- of β -amyloid peptide, RAGE as receptor for, A14
 - of auxin, in developing plants, 481
 - of *Burkholderia pseudomallei*, genes involved in, A282
 - by Ca^{2+} , in stomatal guard cells, 476
 - in cerebral neurons, β 1-40-induced, Fe^{2+} role in, A431
 - in cyclic nucleotide- and Ca^{2+} /calmodulin-regulated channels, in plants, 471
 - in *Drosophila* immune response, A488
 - of growth factors, A273
 - initiation and termination of, by neuropeptide receptors and proteinase-activated receptors, 419
 - of insulin, PDK1 in, A142
 - lipids and: see Lipoygenase; Oxylipins; Phospholipase-mediated signalling pathways.
 - of low temperature, to induce fatty acid desaturation, 628
 - by oxygen radicals, A138
 - phospholipase-mediated pathways in: see Phospholipase-mediated signalling pathways.
 - of protein, across chloroplast envelope, 485, 491
 - proteinase-activated receptor 2 in, A271
 - Rho in, A137
 - of small GTPases, A137
 - of sugar transport by stress, A425
 - superoxide radical anion in, A284
 - through Ca^{2+} /calmodulin-regulated channels, in plants, 471
 - through nuclear factor- κ B, kinetics of, A280
 - by toll-like receptors, A489
 - IL-1 and, A489
 - in transfection of pemt2 gene into hepatocytes, A278
- Signal transduction pathways
- cell cycle re-entry and, 233
 - of chemoprotective agents, A7, 7
 - mitochondrial apoptotic, 56
- Simple sequence repeats: see Microsatellite entries.
- Sin3/histone deacetylase complex, in transcription repression by neuron restrictive silencer factor, A88
- Sir Hans Krebs lecture award, A97
- Sister chromatid separation, in mitosis, A135
- six5 gene, in myotonic dystrophy, A299
- Skeletal muscle
- carnitine palmitoyltransferase I in, control by myogenic factors and PPARs, A285
 - enzyme deficiencies in, metabolic consequences of, A11, 159
 - myostatin and IGF-II in, malnutrition and, A172
 - plasmid DNA expression in, A301
 - sarcoplasmic reticulum of, calcium release from by volatile organic solvents, A46
 - stem cells in, growth control of, A383
- Skeletal myogenesis, Nishéd regulation of, A240
- Skin
- antigen expression in, driven by neuroendocrine-specific promoter in DNA vaccine, A258
 - biology of, inflammation and, A119
 - lectins of, in lizard, A335
 - ultraviolet radiation exposure of, mitochondrial DNA deletions as marker of, A219
 - of *Xenopus laevis*, peptidylprolyl cis/trans isomerase from, A256, A492
- Sm proteins, from yeast, A246
- Smad pathway, TGF- β and, A128
- Smith-Waterman alignment, for sequence comparison, A146
- Smokers' emphysema, pathogenesis of, myeloperoxidase in, A306
- Smoking, effects on Ca^{2+} -dependent phospholipid-binding protein in alveolar cells, A349
- Smooth muscle, airway, ANP- and CNP-sensitive guanylyl cyclases in, A265
- Smooth muscle cells
- arginine-specific ADP-ribosyltransferase in, A293
 - vascular: see Vascular smooth muscle cells.
- Smt3a,b-specific isopeptidase 1, in nucleolus, A370
- Snail venom, λ -conotoxin from, A409
- Snake, factor Xa-like protein from, amino acid sequence from, A422
- Snake venom
- cytotoxic lectin from, A442
 - metalloproteinase from, platelet aggregation inhibition by, A308
 - prothrombin activator mikarin from, A311
 - serine protease variants from, A323
- SNARE protein, in basophilic leukaemia cells, A398
- Sodium, vitamin C transporters dependent on, A91
- Sodium channel(s)
- in brain, modulation by receptor protein tyrosine phosphatase, A437
 - epithelial, regulation by Nedd4 WW domains, A453
- Sodium channel blocker, in spider peptide toxin-binding proteins, A276
- Sodium chloride
- lipase activity and, in germinating rape seeds, 899
 - triacylglycerols and, in cotton seeds, 902
- Sodium current, nitric oxide modulation of, in inside-out patches from ventricular myocytes, A461
- Soil, streptomycetes in, site-specific endonucleases of, A181
- Solfataric hot springs, in Turkey, Archaea and bacteria from, A180
- Solute transport proteins, comparative analysis of, A90
- Somatostatin receptors
- in heart, A95
 - polymorphism of, A95
- Sorbitol treatment, of barley leaves, oxylipins in, 861
- Sorghum, phenolic compounds of, changes during fermentation, A290
- SOS DNA repair, nitric oxide-induced, in *Escherichia coli*, iron ions in, A165
- SOS mutator activity, A166
- SOX gene, molecular evolution of, A186
- Soybean, lipids in, fungal diseases and, 917
- Soybean seeds, acid phosphatase in, lectin and, A459
- Sp1 development, in brain, after in utero exposure to dioxin, A345
- Sp3 target genes, identification of, A286
- Sparsomycin, resistance to, genetic determinant of, A203
- SPECTRAmax GEMINI spectrofluorometer
- measurement of molecular beacons in, A214
 - protease assays in, caspase-3 in, A364
- Spermatogenesis
- inhibin as marker of, A342
 - testis-specific genes in, A236
- Spermatozoa, L-type Ca^{2+} channels in, A392
- Spermatozooids, repetitive DNA sequences in, proteins binding to, A246
- Sphingolipid(s)
- biosynthesis of, 745, 747, 748, 751
 - long-chain base kinase in, in *Arabidopsis*, 747
 - signalling by, lymphocyte apoptosis and, A359
- Sphingolipid compensation gene mutation, in yeast, to improve erucic acid and oil content of rapeseed, 935
- Δ^6 -Sphingolipid desaturases, from higher plants, 638
- Sphingomyelin, hydrolysis to ceramide, during apoptosis, A396
- Sphingomyelin cycle, apoptosis mediated by, in ischaemia/reperfusion-injured hepatocytes, A371
- Sphingomyelinase, from *Bacillus cereus*, structure, function, and membrane binding mode of, A334
- Sphingosine, phospholipase D stimulation by, in glioma C6 cells, A445
- Sphingosine 1-phosphate
- ERK1/2 activation by, lipid phosphate phosphatases in, A279
 - Rat-1 fibroblast mitogenesis and, A357
 - signalling in, A132
- Sphingosylphosphorylcholine, intracellular calcium release induced by, in brain synaptosomes, A278
- Spider peptide toxin-binding protein, Na^+ channel blocker from, A276
- Spinach chloroplasts, RNA-binding proteins from, CDPK phosphorylation of, A431
- Spinal cord, of experimental allergic encephalomyelitis, nuclear factor- κ B activation in, A381
- Spleen
- lymphocyte apoptosis in, calcium and phospholipid signalling in, A378
 - sialyltransferase activity in, in acute and chronic stress, A458
- Sporotrichum thermophile*, β -glucosidase from, A320
- SPR chip peptide chip, LDL and, A21
- Sprouty proteins, membrane ruffle targeting by, growth factor receptor tyrosine kinase activation in, A275
- Squalstatin, tobacco cells treated with, farnesyl diphosphate metabolism in, 794

- Squash, GPAT mutagenesis in, to produce enzyme with altered substrate selectivity, 680
- Squid, phototransduction of, cytoskeletal proteins in, A283
- SRC, alternative promoters of, A285
- SRC1, CREB-binding protein binding site for, A286
- Src kinase, C-terminal, overexpression of, and AP-1 activation by lipopolysaccharide, A279
- SREBPs: *see* Sterol regulatory element-binding proteins.
- Sry: *see* Sex-determining region Y gene.
- Sry-related HMG-box (SOX) gene, molecular evolution of, A186
- Staphylococcal plasmid pC221, relaxation of, A95
- Staphylococcus aureus*
 multidrug efflux protein from, A65
 NorA(His)₆ multidrug efflux protein from, expression in *Escherichia coli*, A88
- Staphylococcus* spp., antibiotic spectrum and sensitivity against, cadmium ion resistance and, A198
- Starch-digesting amylase gene, from *Cytophaga*, expression in *Escherichia coli*, A214
- Starfish, embryogenesis of, nuclear transglutaminase-modified histones during, A249
- Stat1, hsp90a gene regulation by, A274
- Stat3, hsp90a gene regulation by, A274
- Stat3/p65 heterodimer, in regulation of MMP-1 inhibitor gene in gingival fibroblasts, A162
- Statistical tools, for analysis of two-dimensional gel series, A147
- Staurosporine, stimulation of nuclear factor IL6 and AP-2 by, in osteoblast-like cells, A244
- Stearidonic acid, elongation enzymes specific for, 658
- Stellate cells, hepatic nucleotide-stimulated phospholipase D activity in, A265
 proliferation and activation of, zinc and, A158
- Stem cells
 from bone marrow, in extracellular matrix and central nervous system repair, 341
 for extracellular matrix and central nervous system repair, A54
 in skeletal muscle, growth control of, A383
- Stem shoots, of fig, cryopreservation of, A290
- Stephen's banded snake, factor Xa-like protein from, amino acid sequence from, A422
- Steroid(s): *see also specific steroid*.
 thimet oligopeptidase regulation by, A83
- Steroid receptor co-activators, chromatin remodelling by, gene regulation through, 369
- Sterol: *see also* Isoprenoids;
 Polyprenoids.
 in aleurone layer of maize kernels, 803
- Sterol C5-desaturase, conserved histidine residues of, site-directed mutagenesis in, A343
- Sterol regulatory element-binding proteins, binding preference of, ATP-citrate lyase promoter transactivation potency and, A178
- Δ^7 -Sterol-C₅₍₆₎-desaturase, biochemistry and site-directed mutational analysis of, 799
- stevor* multigene family, of *Plasmodium falciparum*, A487
- Stomach cancer-associated protein-tyrosine phosphatase-1 (SAP-1), adenovirus-mediated gene transfer of, cell death induced by, Akt/protein kinase B in, A433
- Stomatal guard cells
 calcium signalling in, A57
 Ca²⁺ signalling in, 476
- Storage disease, lysosomal, molecular basis of, A10, 150
- Storage polysaccharides, regulation and control of, A193
- Storage product accumulation, in oat, during kernel development, 705
- Storage product synthesis, carbon supply for, in developing oilseed rape, 665
- Storage protein vicilin, in pigeonpea, A402
- Streptococcus intermedius*, endotoxin of, human-specific cell lysis by, A233
- Streptococcus mutans*, oral epithelial cells challenged by, adrenomedullin expression and, A231
- Streptococcus pneumoniae*, putative transport proteins in, genetic analysis of, A90
- Streptokinase, in substrate plasminogen interaction, A470
- Streptomyces griseus*, P52 protein from, cell physiology and, A195
- Streptomyces sparsogenes*, genetic determinant of sparsomycin resistance in, A203
- Streptomycetes
 plasmids of, A181
 in soil, site-specific endonucleases of, A181
- Stress
 acute and chronic, effect on sialyltransferase in liver and spleen, A458
 heart during, age-related alteration of myofibril isoenzyme creatine kinase from, A155
 nucleoporin sensitivity to, A443
 SERCA2b protein induction by, A33
 sugar transport by, A425
 surgical, in small intestine, xanthine oxidase in, A437
- Stress indicator, total peroxidase activity as, in tomato leaves, A401
- Stress proteins, tumour cell apoptosis and, A27
- Stress signalling, cell cycle re-entry regulation by, A3, 233
- Stress-activated mitogen-activated protein kinase pathway, in fission yeast, A108
- Stress-activated protein kinase (SAPK) in development of resistance to Pgp-unrelated drugs, in multidrug-resistant cells overexpressing Pgp, A376
 transcriptional regulation induced by, A273
- Stress-specific proteins, in rice seedlings, cadmium and, A468
- Striatum
 AChE in, after prenatal hypoxia, A345
 monoamine release in, VDCC antagonist effect on, age and, A304
 in transgenic mice, with Huntington's disease, A304
- Structural comparison, geometric, A422
- Structural GenomiX, in drug discovery, A131
- β -Structure, in protein folding, A49
- Structure-specific recognition protein, in maize, A250
- Sublingual mucin secretion, protease-activated receptor-2 in, A351
- Substitution matrices, based on force fields, A146
- Substrate metabolism, perfused heart studies of, A9
- Sucrose
 cassava leaf uptake of, A390
 concentration of, in wheat suspension culture, A295
 metabolism of, in wheat seedlings, in water deficiency, A407
- Sucrose synthase
 from bamboo shoots, A403
 in rice, inhibition by trinitrobenzenesulphonic acid and diethylpyrocarbonate, A406
- Sucrose synthase kinase, Mn²⁺-dependent, from rice seedlings, A407
- Sugar transport
 in assimilate partitioning and phloem function, A57
 stress and, A425
- Sulfolobus acidocaldarius*, as archeal transcriptin regulator, A459
- Sulphate conjugate(s), release of, multidrug resistance proteins and, A6
- Sulpholipid
 microbial degradation of, in plants, 781
 as reflection of plant resistant to stresses, 922
- Sulphonamide inhibitors of carbonic anhydrase, lymphoma growth inhibition by, A297
- Sulphydryl groups, in regulation of phospholipase D α , A331
- Sunflower
 acyl-CoA:lysophosphatidylcholine acyltransferase from, purification and photoaffinity labelling of, 715
 antifungal lipid transfer proteins in, A405
 fatty acid biosynthesis in, metabolic control of, 669
 microsomal oleate desaturase in, temperature and oxygen regulation of, 890
 seeds of
 diacylglycerol acyltransferase in, 689
 germinating, lipase activity in, 771
 triacylglycerol biosynthesis in, diacylglycerol acyltransferase for, 698
- Superoxide radical anion, in signal transduction, A284
- Sup35 protein, conformation of, self-perpetuating changes in, A50
- Surface glycoproteins, from Trypanosomes, A74
- Surfactant proteins A and D, respiratory syncytial virus infectivity and, A490
- Surgical stress, in small intestine, xanthine oxidase in, A437
- Survival signals
 cell cycle re-entry regulation by, A13
 drug-induced apoptosis suppression by, A13
 from IGF-I receptor, A13, 47
 from PI3-kinase, in multidrug resistance in myeloid leukaemia, A27
- SV40 T antigen-immortalised endometrial glandular epithelial cell line, oestradiol regulation of, A296
- Sweet potato, vacuolar invertase from, A406
- Synaptically evoked gene expression, and calcium signal processing in neuronal nuclei, A275
- Synaptosomes, of brain, sphingosylphosphorylcholine-induced intracellular calcium release in, A278
- Synechocystis*, induction of fatty acid desaturation in, by transduction of low temperature signals, 628
- Syntaxin-3, in basophilic leukaemia cells, A398
- Syntaxin-7, endocytic trafficking and, A353

- α -Synuclein, in Alzheimer's disease and multiple system atrophy, A33
 SYPRO fluorescent staining, on two-dimensional gel electrophoresis, A151
 Systemic acquired resistance, in *Arabidopsis*, A209
- T cell(s)
 apoptosis of, cDNA clones associated with, A376
 Ca²⁺ influx into, pH and mitochondrial membrane energisation and, A284
 differential proliferative response to IL-7 by, in neonate, A30
 gamma delta, in innate and adaptive immunity, A119
 hydroquinone-induced apoptosis of, caspases in, A447
 IFN- γ expression in, IFN- α and IL-12 regulation of, A257
 IL-18 receptor gene expression in, IFN- α and IL-12 induction of, A491
 irradiation-induced apoptosis of, protein kinase C activation cross-talk with, A379
 priming and polarisation of, by dendritic cells, A120
- T cell antigen Rt6.1, thiol-dependent NAD glycohydrolase activity of, A312
- T cell cytokines, hormone-controlled, in pregnancy maintenance, 212
- Taenia solium*, triosephosphate isomerase and glyceraldehyde-3-phosphate dehydrogenase of, A313
- Tamoxifen, in hepatocarcinogenesis, A225
- TAP2 gene transcription, analysis of, A387
- Tat protein, export pathway of, A58
- Tau aggregation, in Alzheimer's disease, pathway of, A108, A129
- Tau mutations
 in Alzheimer's disease, A15, A129
 amyloid precursor protein processing and, A36
 in FTDP-17, A15, A37
- Tau tangles, amyloid and, A128
- Taurine, effect on PDGF-activated *c-fos* and *c-jun* and MAP kinase, A202
- Tay-Sachs disease, in offspring of heterozygote parents, hexosaminidase α subunit genetic mutation in, A307
- Teaching
 of biochemistry and molecular biology, A110
 BiOiB database in, A144
 changes in, A11
 to marine biology students, A144
 problem-based learning in, A134
 to students trained in chemistry, A121
 interactive, in first year of medicine, A145
 of medics, wet biochemistry laboratory practicals in, A144
 metabolism, student comprehension of, A121
 of nutritional biochemistry, Internet in, A145
 of pharmacy, computer-assisted learning in, A143
- Tears, of contact lens wearers, lactate dehydrogenase in, A319
- Telomerase
 in breast cancer, A222
 in oral cancer, A223
 transfected, in Sertoli cells, extended lifespan and, A295
- Telomere
 cancer, ageing, and DNA repair and, A108
 length of
 and ageing-related immune failure, 241
 in haematopoietic cells, 245
 in hematopoietic cells, A3
 Telomeric repeated motif d(CCCTAA)_n, single-strand, hnRNP type A/B recognition of, A251
- Temperature
 and F-to-O transition of cytochrome c oxidase, A469
 low
 cyanobacterium polyunsaturated fatty acid synthesis and, 892
 signal transduction of, to induce fatty acid desaturation, 628
 low positive, melanoma cell apoptosis induced by, A377
 sunflower microsomal oleate desaturase and, 890
- Tenebrio molitor*, midgut α -glucosidases in, A321
- Teratogen, cyclosporine as, A292
- tert*-Butyl hydroperoxide-induced lipid signalling, phospholipase A₂, C, and D in, in hepatocytes, A282
- Testis, aspartate in, A342
- Testis-specific genes, in spermatogenesis, A236
- Tetrahydrocannabinol, in increased NGF production by prostate cells, A339
- Tetrahymena thermophila*, insulin/FGF-binding ciliary membrane glycoproteins from, purification of, A268
- Tetratricopeptide proteins, of anaphase-promoting complex, cloning and expression of, A172
- TGF- β : see Transforming growth factor- β .
- TGN38, in secretion, and luminal domain characterisation of, A352
- Theileria parva*, lymphoblastoid cells infected with, glutamine-metabolising enzymes in, A195
- Thermal responses, of spontaneously immortalised keratinocytes, A373
- Thermal stability, in *Escherichia coli* with 3-isopropylmalate dehydrogenase mutation, A465
- Thermoadaptation
 lipids in, in seagrass, 887
 in marine invertebrates, A343
- Thermococcus kodakaraensis*, Rubisco from, crystal structure of, A418
- Thermococcus litoralis*, thermostable aminoacylase from, A78
- Thermodynamic molecular switch, in biological systems, A410
- Thermophile, alcohol dehydrogenase from, vs. mesophilic alcohol dehydrogenase, A316
- Thermophilic α -amylase, proteolysis of, A418
- Thermophilic imidase, from liver, A324
- Thermophilic microorganisms, cloning DNA polymerase gene from, A289
- Thermophilic NiFe hydrogenases, maturation of, proteins in, A197
- Thermoplasma* citrate synthase, external factor effects on, A310
- Thermostability
 of 8-amino-7-oxononanoate synthase, A316
 of bacterial histone TmHU, as drug delivery vector, A214
 of fatty alcohol-induced lipase genes, in *Pseudomonas* strains, A193
- Thermotoga maritima*, aminopeptidase P from, A320
- Thermus thermophilus*, nucleotide excision repair in, UvrB enzyme in, A167
- Thimet oligopeptidase, steroid regulation of, A83
- Thiocarbamate herbicide, fatty acid elongation inhibited by, 650
- Thiol-dependent NAD glycohydrolase activity, T cell antigen Rt6.1 and, A312
- Thiols, methyl transfers to, zinc in, A123
- Thioredoxin reductase
 cytosolic isozymes of, A314
 isoforms of, adenine mononucleotide inhibition of, A309
- 3TC, anti-HIV activity of, enhancement by depleting dCTP, A331
- Thrombin
 bioencapsulated, for wound healing, A361
 endothelial cell responses mediated by, G protein pathways in, A471
- Thromboxane A₂ receptor, N-linked glycosylation and, A34
- Thylakoid lipids, and violaxanthin de-epoxidation in liposomes, 810
- Thylakoid membranes, acidic lipids from, environmental effects on, 912
- Thyroid, cholera toxin activation of calpain in, A330
- Thyroid hormone(s)
 apoptosis induced by, polyubiquitin gene polymorphism and, A237
 function of, in dialysis patients, A160
- Thyroid hormone receptors
 repression of, A63
 silencing function of, modulation of by co-repressors and synergising transcription factor, 386
- Thyroidectomy, heat acclimation after, hepatic pyruvate kinase activity and, A194
- Thyrotropin, phospholipase D activation induced by, phosphatidylcholine-specific phospholipase C and RhoA in, A359
- Thyrotropin-releasing hormone-degrading ectoenzyme, site-directed mutagenesis of, A318
- Ticks, anti-haemostatic factors from, A444
- TiO₂ film, nanocrystalline, protein adsorption on, A44
- Tissue engineering
 biomaterials in, A54
 extracellular matrix in, A54
 wound healing and, A54
- Tissue kallikrein, in neuronal nuclei of developing brain, A312
- Tissue polypeptide-specific antigen, in breast cancer, A222
- TmHU, as drug delivery vector, A214
- TNF- α : see Tumour necrosis factor α .
- Tobacco
 BY2 cell cycle-modulated genes in, AFLP analysis of, A228
 cell growth cycle in, auxin in, A408
 chloroplasts of, under increased CO₂ partial pressure, lipid and fatty acid composition in, 885
 recombinant collagen production in, A55
 squalenyl-treated, farnesyl diphosphate metabolism in, 794
 transformation of, *Agrobacterium* in, A210
 transgenic, werine acetyltransferase and O-acetylserine (thiol) lyase production by, A262
- Tocopherol-associated protein, cloning, expression, and characterisation of, A252
- Tocopheryl succinate, apoptosis induced by, A375
- Toll/interleukin-1 receptor domain, in innate immunity, 557
- Toll-like receptors
 antibodies specific for, A490
 direct interface with microbial world, A489

- in innate immunity, 551, 557
in knockout mice, A488
lipoproteins and recognition by, A114
signal transduction by, A489
IL-1 and, A489
signalling pathway in, 563
- Tomato**
fruit of, phospholipase D α in, 819
heat stress transcription factor HsfA2
in, cytoplasmic chaperone complexes
of, nuclear interaction with, A351
leaves of, total peroxidase activity as
stress indicator in, A401
lipoxygenase-catalysed carotenoid
degradation from, antioxidants and,
839
resistance-specific hsp70/hsp70
induction in, by *Ralstonia*
solanacearum, A401
- Tooth bud formation, *Msx1* gene in,
A462
- Toxic responses, molecular basis of,
genomic analysis of, A141
- α -Toxin, active form of, structure of,
A388
- Toxins**
aquaporin genes and, A171
bacterial, against parasitic nematodes,
A151
Pasteurella multocida, functional
domains of, A234
transport of, across blood-air barrier
in alveolar epithelial cell monolayer,
A389
- Toxoplasma*
genomics of, 541
motility and cell invasion by, A473
plastid DNA of, linear tandem arrays
in, A486
- Toxoplasma gondii*
host cell attachment of, A483
pyrimidine synthesis in, A479
stage conversion in, nitric oxide and,
A476
- Toxoplasma* infection, ecology of, A478
Toxoplasma spp., epidemiology of, A485
Toxoplasmosis, infectious, diagnostic
ELISA in, A233
- TPCK (*N*- α -tosyl-L-phenylalanine
chloromethyl ketone), enzyme
sensitive to, in monocyte apoptosis,
A378
- Trabecular meshwork inducible
glucocorticoid response (*TIGR*)
gene, sequence variations in, A301
- TRAF: see Tumour necrosis factor
receptor-associated factor.
- Transaminase, novel, in *Escherichia coli*,
A181
- Transaminases, novel, produced by
directed evolution, A259
- Transcription activation
chromatin remodelling factor
recruitment by glucocorticoid
receptor during, 410
protein-acetylating and protein-
methylating co-activators in, 415
- Transcription factor(s), in neuronal vs.
astrocytic differentiation, A293
- Transcription factor LEF-1, and *EDA*
gene expression, A462
- Transcription factor TFIIF, RAP74
subunit of, androgen receptor
interaction with, A88
- Transcription repression
co-repressor complexes and
remodelling chromatin for, 379
neuron restrictive silencer factor and,
A88
by nuclear receptors, 390
by thyroid hormone receptor, co-
repressor effect on, 386
- Transforming growth factor- β
effect on EGF-activated MEK1 and
protein kinase B pathways, A370
- evolutionary trace analysis of, A267
recombinant human, NRK cell growth
and, A338
in regulation of granulocyte
macrophage colony-stimulating
factor gene, in bladder carcinoma,
A341
in regulation of lipoprotein lipase in
macrophages, A338
signalling to, transcription regulation
and, A119
Smad pathway and, A128
soluble betaglycan as antagonist of,
A339
in UMR-106 cells, under mechanical
stretching, A174
Wnt signalling pathway and, A272
- Transient receptor potential calcium
channels, maitotoxin-activated, in
liver cells, A388
- Translation dynamics, cryo-electron
microscopic study of, A109
- Translation elongation factor 1A1 and 2,
two-hybrid system analysis of, A464
- Transmembrane helices, insertion into
endoplasmic reticulum, A116
- Transplantation
of heart, acute rejection of, proteomic
analysis of, A264
of liver, matrix metalloproteinase
release in, A85
- Transplatin: see also Cisplatin.
mitochondrial DNA damage from,
repair of, A463
- Transport proteins, in *Streptococcus*
pneumoniae, genetic analysis of, A90
- Transportan, deletion analogues of,
A208
- Transposon mutagenesis, in petunia,
high linoleic acid content and, 631
- Transposon silencing, in *Caenorhabditis*
elegans, A122
- Transthyretin, stability of, in familial
amyloidotic polyneuropathy, A412
- Transthyretin amyloid fibril formation,
inhibitors of, structure and function
of, A51
- Triacylglycerol
accumulation of in *Saccharomyces*
cerevisiae, acyl-CoA:cholesterol
acyltransferase in, 700
biosynthesis of
diacylglycerol acyltransferase in, 698
in *Mortierella alpina* microsomal
membranes, 707
phospholipid:diacylglycerol
acyltransferases in, 703
in cotton seeds under salt stress, 902
hepatic secretion of, A8
insulin effects on, 103
as polyunsaturated fatty acid reservoir,
in chloroplastic lipid production, in
microalgae, 740
- Trichoderma reesei*, protein secretion in,
mannose metabolism gene
transcription and, A336
- Trichomonas vaginalis*, vitamin B12 and,
A157
- Trigonella foenum graecium*
cytotoxicity of, on fibroblast cells,
A204
reversal of diabetes complications by,
A154
- Trinitrobenzenesulphonic acid, rice
sucrose synthase inhibition by, A406
- Triosephosphate isomerase
of *Taenia solium*, A313
of Trypanosomes, stability and kinetics
of, A318
- tRNA, archeal, peptides related to, A252
- Trophoblast
decidual natural killer cell interaction
with, 196
metastatic, growth factor-extracellular
matrix synergy in, A19, 199
- NK cell interaction with, cytokines in,
A19
- Tropoelastin, sedimentation equilibrium
analysis of, A471
- Tropoelastin pentapeptide substrates,
Pseudomonas aeruginosa LasA
specificity using, A323
- Troponin T gene, cytosine methylation
and, in hypertrophic
cardiomyopathy, A154
- Truffle, expression and identification
analysis of, A150
- Trypanosomes
antigen variation in, DNA
recombination during, A166
antigenic variation of, DNA
recombination in, A482
cyclin-dependent kinases of, A480,
A482
cyclins of, A480
cytochrome oxidase VI in,
developmental stage and, A485
detergent-resistant membranes,
secretion, and lipid architecture in,
A477
differentiation of
cAMP signalling during, A480
events in, proteome during, A486
drug sensitive and resistant strains of,
P2 adenosine transporter
homologue of, A92
endocytosis control in, A478
flagellar structure of, A216, A218,
A352
flagellar targeting of proteins in, A478
gene expression and nuclear
reorganisation in, A111
genetic exchange analysis of, using
green fluorescent protein, A479
genomics of, 541
with genotypic similarity to human
infective isolates, in tsetse from
sleeping sickness-free region, A480
insect stage of, GARP gene in, A475
invasion by, regulated exocytosis and,
A473
life cycle of, A473
aconitase functions during, A476
differentiation in, A486, 531
metabolism, metabolic
compartmentation, and drug targets
in, A112
minichromosome integrity and stability
in, A253
minicircles and guide RNAs in, A481
myocarditis induced by, protozoan-
derived glycosylphosphatidylinositol
anchors in, A111
phenotype in, genetic analysis of, A472
polymorphic celomers of, 536
purine transporters from, A482
RNA metabolism in, A472
serine/threonine protein phosphatase
type 5 from, A426
serum resistance-associated gene of:
see Glutamic acid/alanine-rich
protein.
surface coat on, tsetse fly and, A474
surface glycoproteins from, A74
surface molecule structure and
biosynthesis, A474
triosephosphate isomerase from,
stability and kinetics of, A318
tubulins in, A218
ubiquitin of, mutagenesis of, A254
UDP glucose 4'-epimerase from,
A337, A483
variant surface glycoproteins on, A474,
A478
metacyclic expression of, A479
- Tryptophan, absolutely conserved, in
cytochrome *c*, A263
- Tryptophan reporter group, introduction
into fructose-1,6-bisphosphatase,
A424

- Tsetse fly
from sleeping sickness-free region, trypanosome isolates in, A480 and trypanosome surface coat, A474
- Tubular cells: *see* Renal tubular cells.
- Tubulins, in parasite protozoa, A218
- Tulip, ketol biosynthesis in, 851
- Tumour, hepatic, cyclin-dependent kinase inhibitor gene expression in, A239
- Tumour cells
apoptosis of
Chelidonium majus lectin in, A374 stress proteins and, A27 using antisense oligonucleotides to Bcl-2, A242 circulating, in hereditary melanoma, A224 growth of, garlic lectin inhibition of, A403 synchronised elevation of GLUT1 and hexokinase type II transcription in, A197
- Tumour necrosis factor- α
in aetiology of lipid abnormalities and cachexia in breast cancer patients, A222 apoptosis mediated by calcium regulation and, A28 in ischaemia/reperfusion-injured hepatocytes, A371 homocysteine effect on, in monocytes, A25 IL-6 expression controlled by, JNK and c-Jun and, A241 *KE4* gene down-regulation by, A286 signal transduction to nuclear factor- κ B, IRAK-1 in, A491
- Tumour necrosis factor receptor-associated factor, RANK recruiting of, A277
- Tumour suppressor genes, in malignant lymphoma, A224
- Turkey, solfataric hot springs of, Archaea and bacteria from, A180
- Two-dimensional gel, analysis of, with advanced statistical tools, A147
- Two-dimensional gel electrophoresis proteins separated by, MALDI-MS and Q-TOF of, A152 SYPRO fluorescent staining on, A151
- Tyrosine, phosphorylated, of granulocyte colony-stimulating factor receptor, proteins interacting with, A461
- Tyrosine hydroxylase, GDNF-induced expression of, A239
- Tyrosine kinase
activation on growth factor receptor, in sprouty protein targeting of membrane ruffle, A275 IGF-I receptor regulation of, A29 in IL-1b-mediated ICAM-1 expression, A427
- Tyrosine kinase c-Src, upregulation of, EGF-induced adaptor protein Shc translocation in, A432
- Tyrosine phosphorylation cellular signalling by, A128 of cytosolic and nuclear proteins, during apoptosis, A379 Fas-induced phospholipase D activation and, A357 of insulin receptor, A267 of JAK1, IL-2 induction of, in cervical cancer, A283
- Tyrosine residue, conserved, in *Escherichia coli* copper amine oxidase, A72
- TyrR protein, central domain of, functional analysis of, A176
- U7-like RNAs, in *Saccharomyces cerevisiae*, histone processing and, A41
- UBF gene, in phytohemagglutinin-stimulated lymphocytes, A173
- Ubiquitin, of trypanosomes, mutagenesis of, A254
- Ubiquitin-associated domain, in E3 ligase activity of proto-oncogene c-Cbl, A465
- Ubiquitin-like polypeptide, in protein tyrosine phosphorylation, A432
- UDP glucose 4'-epimerase, from trypanosomes, A337, A483
- UDP-glucose:ceramide glucosyltransferases, from different organisms, 751
- Ulcerative colitis, mucosal antioxidant defence in, A311
- Ultrasound, bilirubin and CYP1A1 expression under, A239
- Ultraviolet light
apoptosis induced by, arsenite-downregulated caveolin-s and, A373 p53 stability and transcriptional activity and, A169 *Saccharomyces cerevisiae* resistance to, DNA damage-induced *UMPI* in, A167 skin exposure to, mitochondrial DNA deletions as marker of, A219 and *Vitis vinifera* carotenoid content, 883
- Umbroviruses, movement functions of, A213
- UMPI*, DNA damage induction of, in *Saccharomyces cerevisiae* resistance to ultraviolet light, A167
- Uncoupling protein 2, in hypothalamus, during fever and different metabolic conditions, A156
- Uncoupling proteins 1-3, immunodetection of, A187
- Uracil permease, endocytosis and internalisation of, Rsp5p WW domains and, A350
- Uracil-DNA glycosylase, in DNA repair, molecular anatomy and physiology of, A101
- Urea cycle enzymes, in hyperammonaemia, A325
- Urinary bladder: *see* Bladder.
- Uterine tumours, collagen-bound matrix metalloproteinases-2 and 9 in, A442
- Uteroplacental tissue, leukocyte populations and cytokine regulation in, A18, 191
- Uterus
after implantation, cyclin E and cdk2 co-expression in, A297 quiescence of, adenylyl cyclase in, A281
- UvrB enzyme, crystal structure of, in nucleotide excision repair in *Thermus thermophilus*, A167
- VacA toxin, from *Helicobacter pylori*, cell trafficking alterations from, A117
- Vaccine
DNA, neuroendocrine-specific promoter in, antigen expression driven by, in skin and muscle cells, A258 structure-based design of, A332
- Vacuolar invertase, from sweet potato, A406
- Vaginam discharge, in papillomavirus infection, enzyme activity in, A212
- VAMP-7, in basophilic leukaemia cells, A398
- Vanadium, reversal of diabetes complications by, A154
- Vanillyl-alcohol oxidase, inverted stereospecificity of, A263
- Variant surface glycoprotein (VSG) structure and metabolism of, A477 in trypanosomes, metacyclic expression of, A479 on trypanosomes, A474, A478
- Vascular disease, PON1 mutations and, A436
- Vascular endothelial growth factor and receptors, in angiogenesis and lymphangiogenesis, A138 regulation by AP-1 promoter pathway, A237
- Vascular smooth muscle cells
adrenomedullin and GCRP activation of MAP kinase pathway in, A298 cGMP antiproliferative action in, cyclin D1/cdk and, A366 proliferation of, calcium status, ERK1/2, and cyclin D1 in, A296
- Vasoactive peptide, E-selectin induction by, on keratinocytes, A231
- VDCC antagonists, striatum monoamine release and, age and, A304
- Vear protein, A393
- Vector for drug delivery, TmHU as, A214
- VEGF: *see* Vascular endothelial growth factor.
- Ventral midline tissues, differentiation of, on A-P axis, A139
- Ventricular myocytes, inside-out patches from, nitric oxide modulation of sodium current in, A461
- Vero cells, microtubule length distribution and spatial organisation in, A216
- Vertebrates
CpG and granulocyte macrophage colony-stimulating factor immunomodulatory/immunostimulatory effects in, A492 genomes of
ancient octaploidy in, 259 octaploidy in, A23 HtrA serine protease family in, horizontal gene transfer in, A40 nervous system of, induction and specification of, molecular control of, A138
- Vibrational spectroscopy, time-resolved, of halorhodopsin photocycle, A188
- Vibrio harveyi*, heat shock operon *groE* of, A250
- Vibrio* PA-43, serine proteinase from, A312
- Vicilin storage protein, cDNA for, in pigeonpea, A402
- Vigna unguiculata* leaves, drought stress in, galactolipase activity in, 779
- Vinblastine, colonic epithelial cells resistant to, A91
- Violaxanthin de-epoxidation, in liposomes, thylakoid lipids in, 810
- Viral disease, antibodies in blood in, substrate specificity of, A257
- Viral infection
apoptosis, 255 replicative senescence in, A4, 255
- Virus, apoptosis induced by, in phaeochromocytoma cells, A374
- Vitamin A
in obesity, effect on resting metabolic rate and RQ, A159 in pregnancy, A195
- Vitamin B12
biosynthesis of, A330 *Trichomonas vaginalis* and, A157
- Vitamin C transporters, sodium-dependent, A91
- Vitamin D receptor, polymorphism in, and postmenopausal osteoporosis, A162
- Vitamin D3, cell differentiation induced by, oestrone sulphatase activity during, A292
- Vitamin E, in inhibition of CD36 scavenger receptor expression and oxidised LDL uptake, A242
- Vitamin K, and hepatic cytochrome P450, A439
- Vitis vinifera*, carotenoid content of, ultraviolet light and, 883

- Volatile organic solvents, calcium release from sarcoplasmic reticulum by, A46
 Voltage-dependent anion channel, calcium binding and translocation by, A390
 Voltage-dependent calcium channel experimental and modelling studies of, A417
 structure of, A43
 VP3 gene, of human group C rotavirus, A213
 VSG: *see* Variant surface glycoprotein.
- Warfarin, binding to domain fragments and to recombinant albumin, A259
 Water, polluted, and teratogenic and ontogenic alterations in neonatal rats, A434
 Water deficiency: *see* Drought.
 Water oxidising complex, of photosystem II, CO²⁺ and, A404
 Wax biosynthesis, 610
 Wax-specific condensing enzyme CUT1, in *Arabidopsis*, 651
 Wheat
 altered GPAT or acyl-acyl carrier protein thioesterase in, morphological and metabolic changes in, 682
 chloroplast nuclease ChS of, flap structure-specific activity of, A252
 germinated, arabinosidase from, A402
 lipids in, under copper stress, 905
 optimal photosynthetic, A404
 suspension culture of, sucrose concentration in, A295
 Wheat bread, genetic polymorphisms in, microsatellites in detection of, A245
 Wheat seedlings
 acyl lipids in, in fungal disease, 920
 Rab geranylgeranyltransferase in, A360
 sucrose metabolism in, in water deficiency, A407
 White sword bean, serine proteinase inhibitors from, A421
 White-rot fungus, exposure of to heavy metals, GSH level after, A24
 Wnt pathway
 β -catenin signalling in, A128
 presenilin effect on dishevelled activity in, A36
 TGF- β pathway and, A272
 Wound healing
 bioencapsulated thrombin and peptides for, A361
 tissue engineering and, A54
 WW domains
 of Nedd4, epithelial Na⁺ channel regulation by, A453
 of Rsp5p, in uracil permease endocytosis and internalisation, A350
 X-prolyl aminopeptidase, cloning and characterisation of, A309
 X11 protein, in Alzheimer's disease, A37
 Xanthine oxidase
 intestinal mucosal dysfunction and, in surgical stress, A437
 unsteroid oestrogens and, A333
Xanthomonas campestris, secretion apparatus inhibition in, A355
Xanthosoma spp., molecular analysis of, A179
 XCE (ECEL1), as central nervous system metallopeptidase, A59
Xenopus laevis
 early development of
 oestrogen exposure in, A386
 Rel/nuclear factor- κ B genes in, A386
 egg cycling extracts of, protein-tyrosine phosphorylation in, A434
 protein ER1 nuclear translocation in, nuclear localisation signals in regulation of, A354
 skin of, peptidylprolyl cis/trans isomerase from, A256, A492
Xenopus tropicalis, embryogenesis in, mutations affecting, A141
 Xylanase
 from *Chaetomium thermophile*, A320
 structure of, ricin structure and, A417
 Xylanase XIn A, from *Chaetomium thermophilum*, protease probes of, A420
Xylaria polymorpha, lectins from, A40
Xylella fastidiosa, complete genome sequence of, A102
- Yam
 biochemical and molecular studies of, A290
 effect on diabetic kidney, A156
 salt-stressed, A152
 Yeast: *see also specific yeast*.
 acetohydroxyacid synthase in, subunits of, A436
 calcium signalling and calcium channels in, A56
 endoplasmic reticulum of, glycoprotein folding in, A124
 farnesyl diphosphate synthetase from, proteolytic degradation of, A327
 Gal2 of, aromatic amino acid interactions in, A391
 genome(s) of, A112
 halophily in, A436, A470
 industrial, multiple gene deletions in, A150
 mitochondria of, membrane protein import in, 495
 mitochondrial processing peptide of, A350
 mitotic spindle proteins of, MALDI mass spectrometry identification of, A118
 protein disulphide isomerase of, biochemical analysis of, A452
 recombinant human collagen in, A55, 353
 response to stress-activated MAP kinase in, A108
 RNA polymerase II in, NRD1-NAB3 complex associated with, A442
 secretory pathway organisation in, A115
 Sm proteins from, A246
 sphingolipid compensation gene mutation in, to improve erucic acid and oil content of rapeseed, 935
 in study of intestinal peptide transporter structure-function relationships, A395
 for wine fermentation, pentose phosphate pathway in, A145
 Yeast artificial chromosome, carrying human DNA, A247
 Yeast heredity, prion hypothesis in, A50
 Yeast infection, immune response to, extracellular glutamine in, A255
 Yeast two-hybrid system, in detection of protein-protein interactions, A260
Yersinia pestis, LcrV and LcrG proteins and, A232
Yersinia pseudotuberculosis virulence-associated genes, DNA array of, A232
 Y74W β -sheet protein, unfolding of, A69
- Zearalenone, inositol interaction with, A338
 Zebrafish
 fatty acid-binding proteins in, A238
 gastrulation in, genetic analysis of, A140
 Zervamicin IIB, solid phase synthesis of, A207
 Zinc
 CD157 and, in *Escherichia coli*, A411
 cytochrome biosynthesis and, in *Paracoccus denitrificans*, A435
 in hepatic stellate cell proliferation and activation, A158
 intracellular, breast cancer protein LIV-1 control by, A394
 in methyl transfers to thiols, A123
 Zinc finger genes, from heart, A176
 Zinc metallopeptidases, functional studies of, phosphinic peptide inhibitors in, 455
 Zinc metalloprotease, homology of, to angiotensin-converting enzyme, A81
 Zinc metalloproteinase inhibitors, development of, phosphinic peptide chemistry in, A61
 Zinc supplementation, with zinc sulphate or bioplex zinc, effectiveness of, A26
 Zymogens, aspartic proteinase, inactivation in, A441

- pharmacological use for apoptosis induction, A371
- Alberati, D.**, See Gatti, S.
- Alcazar, A.**, See Quevedo, C.
- Aldana, O. L.**, See Jeremy, A. H. T.
- Aldecoa, A.**, See Leuthäuser, K.
- Aldemita, R. R.**
- ; Romero, G. O.; Desamero, N. V.; Redona, E. D.; Solis, R. R.; Sebastian, L. S.; Obien, S. R.
- Rice molecular breeding at PhilRice, A289
- Alderton, F.**, See McKie, A.
- Alderton, W. K.**, See Nicol, D. M.
- Aledo, J. C.**, See Pérez-Gómez, C.
- Aleksandrak, T.**
- ; Kok, J.; Bardowski, J.
- CcpA—a regulatory protein involved in cellobiose inducible lactose metabolism in *Lactococcus lactis*, A192
- Alessenko, A. V.**
- ; Dudnik, L. B.; Mochalova, E. S.; Shupik, M. A.; Galperin, E. I.
- Accumulation of TNF- α and stimulation of sphingomyelin cycle initiate apoptosis induced in liver cells by ischemia and reperfusion, A371
- Alexaki, E.**, See Sachana, M.
- Alexander, D. J.**, See Ridd, K.
- Alexander, R. A.**, See Bailey, T. A.
- Alexeev, D. G.**, See Mullan, L. J.
- Alfaia, C. M. M.**, See Correia, A. A. D.; Correia, J. H. R. D.
- Alfermann, K.**, See Radunz, A.
- Alfonzo, M. J.**, See Borges, A.
- Alfredsson, G. A.**, See Irwin, J. A.
- Alhomida, A. S.**, See Siddiqi, N. J.
- Ali, I. S.**, See Khattab, A. D.
- Ali, R.**, See Bajaj-Elliott, M.; Eissa, S.
- Alieva, I. B.**, See Chernobelskaya, I. A.
- Alirzayeva, E. G.**
- ; Kurbanova, I. M.
- Ex situ* cryopreservation of the fig stem shoots, A290
- Allitalo, K.**
- ; VEGFs and receptors in angiogenesis and lymphangiogenesis, A138
- Aliyev, J. A.**, See Guliev, N. M.; Shahmuradov, I. A.
- ; Ismayilov, M. A.; Aliyeva, D. R.; Aliyeva, E. H.
- Long-term adaptation of *Dunaliella salina* cells to changing salt concentrations and its relation to photosystem II and I photochemistry, A400
- Aliyeva, D. R.**, See Aliyev, J. A.
- Aliyeva, E. H.**, See Aliyev, J. A.
- Allahverdiev, T. I.**, See Guliev, N. M.
- Allaker, R. P.**, See Kapas, S.
- Allardyce, C.**
- ; Spooner, R. K.; Rogers, M.; Dooley, D. M.; Knowles, P. F.; McPherson, M. J.
- Investigation of substrate binding to galactose oxidase, A71
- Allen, J.**, See Fink, M.
- Allen, S.**, See Khattab, A. D.
- Allen, S. J.**
- ; Kim, J.-M.; Khorana, H. G.; Booth, P. J.
- The effects of replacing loop residues with structure-less linkers upon folding of bacteriorhodopsin, A408
- Al-Lithy, G. A.**, See Hassan, M. I.
- Allsop, D.**, See Moore, S.; Turnbull, S.
- ; Modulation of β -amyloid production and fibrillization, A14
- ; Swanson, L.; Moore, S.; Davies, Y.; El-Agnaf, O.; Soutar, I.
- Fluorescence anisotropy: a method for early detection of Alzheimer β -peptide aggregates, A303
- Al-Malki, A.**
- ; Morby, A.; Harwood, J. L.
- Pea choline kinase: purification, properties and isolation of a cDNA, 721
- Almarza, C.**, See Eyzaguirre, J.
- Al-Olayan, E.**
- ; Arrighi, R. B. G.; Hurd, H.
- In vitro* culture of the mosquito stages of *Plasmodium berghei*: a tool for investigating interactions between parasite and vector, A475
- Alphey, L. S.**, See Bennett, D. H.
- Al Rassad, M. M.**, See Khalil, F. K.
- Al-Saady, A.**, See Hassan, F. M.
- Al-Said, M. M.**, See Hassan, M. I.
- Alsford, S.**, See Wickstead, B.
- Al-Shebany, S.**, See Hassan, F. M.
- Al Sobky, E. S.**, See Khalil, F. K.
- Alvarez-Barrientos, A.**, See Mathur, A.
- Alves, C. R.**
- ; Figueiredo, L. J. O.; Pirmez, C.; de Andrade, T. C. B.; Saraiva, F. A. L. O.; De-Simone, S. G.
- On the cysteine proteinases of *Leishmania*: an experimental and theoretical study of cellular immunological response, A254
- Amanuma, H.**, See Esser, D.
- Amar, C.**, See Pedraza-Díaz, S.
- Ambrose, S. J.**, See Meesapyodsuk, D.
- Amicucci, A.**, See Polidori, E.
- Amin, N.**, See Veeranna, P. S.
- Amin, S.**, See Bailey, T. A.
- Amin, V.**, See Westbrook, J. A.
- Amini, S.**, See Azimpour, Ch.
- Amirshahi, P.**, See Bagheri, A.
- Amorim, M. A.**, See Marques, M.
- An, J.**, See Katavic, V.
- Anaboussi, S.**
- ; Shervington, A.
- Transformation of plant cells with DNA encoding antibiotic resistance, A208
- Anandatheerthavarada, H. K.**, See Robin, M.-A.
- ; Biswas, G.; Avadhani, N. G.
- Phosphorylation at Ser128 by cAMP dependent protein kinase A modulates the dual targeting of P4502B1 to mitochondria and endoplasmic reticulum, A349
- Ananianz-Gazarian, T. G.**, See Gazarian, K. G.
- Andalibi, M.**, See Sabzevari, O.
- Anderluh, G.**
- ; Mechanism of action of equinatoxin II, a pore-forming protein from the sea anemone *Actina equina*, A453
- Andersen, S. R.**, See Dixon, G. L. J.; Uronen, H.
- Anderson, D. N.**, See Messahel, S.
- Anderson, H. M.**, See McFarlane, S. M.
- Anderson, M.**, See Fatland, B.
- Anderson, S.**, See Millar, J. K.; Taylor, M. S.
- Anderson, T.**
- ; Do students really understand metabolism the way we think they do?, A121
- Andersson, K.**, See Heijbel, A.
- Anderton, B. H.**, See Chapman, S. C.; Dayanandan, R.; Gibb, G. M.; Gillet, S.; Lee, K. F.; Pollard, C. L.; Schubert, T. E. O.; Williamson, R.
- ; Sites of phosphorylation in tau and factors affecting their regulation, A15
- Andi, B.**
- ; Goliaei, B.
- Theoretical study of helix stabilization by D-glutamic acids involved in electrostatic interactions, A205
- ; Shabani, M.
- Hypothetical evolutionary study of high-stacked codons coding mostly for hydrophilic amino acids, A186
- Andreeva, A. V.**
- ; Organization of the transport between endoplasmic reticulum (ER) and Golgi in higher-plant cells, A59
- ; Zheng, H.; Saint-Jore, C. M.; Kutuzov, M. A.; Evans, D. E.; Hawes, C. R.
- Organization of transport from endoplasmic reticulum to Golgi in higher plants, 505
- Andresen, B. S.**, See O'Reilly, L. P.
- Andrésón, Ó. S.**, See Ásgeirsson, B.
- Andrew, C. D.**
- ; Penel, S.; Jones, G. R.; Doig, A. J.
- Stabilizing non-polar-polar side chain interactions in the α -helix, A72
- Andrew, D.**, See Aspinall, R.
- Andrews, A.-L.**
- ; Bioactivity of B-loop mutants of human epidermal growth factor, A444
- Andrews, A.-L.**
- ; Nelson, J.
- Identification of the target receptor of the synthetic peptide mEGF (20–31), A39
- Andrews, N.**
- ; Regulated exocytosis and trypanosome invasion: the unexpected link, A473
- Andrews, S. C.**, See Doig, S.
- Andrianjara, C.**, See Fink, M.
- Androulakis, G.**, See Armakolas, A.
- Ang, S.-L.**
- ; Genetic analysis of mouse brain patterning, A138
- Angers, M.**, See Bachvarov, D.
- Anna, P.**, See Aparna, V.
- Anokhina, V. V.**, See Ivanova, V. P.
- Anopuechi, V.**, See Wright, J. M.
- Antonelli, A.**, See Magnani, M.
- Antoniw, J. F.**, See Knight, G. L.; Mullins, J. G. L.
- Antosz, H. Z.**
- ; Mizerski, G. J.; Jargiello, M. B.; Wojciorowski, J. K.
- mRNA expression of the human cell cycle genes in B-cell chronic lymphocytic leukaemia, A301
- ; Mizerski, G. J.; Jargiello, M. B.; Wojciorowski, J. K.
- mRNA expression of the human cell cycle genes in B-CLL, A368
- Antunes, Ó. A. C.**, See Gomes, L. P.
- Anup, R.**
- ; Susama, P.; Balasubramanian, K. A.
- Surgical stress and the small intestine: role of xanthine oxidase in mucosal dysfunction, A467
- Anzai, T.**, See Sakai, T.
- Aoki, Y.**, See Sha, S.
- Aon, M. A.**
- ; Cortassa, S.; Gomez Casati, D. F.; Iglesias, A. A.
- Ultrasensitivity and molecular crowding in the regulation and control of storage polysaccharides' level, A193
- Aoyagi, C.**, See Selvakumar, P.
- Aoyama, H.**, See Ferreira, C. V.; Granjeiro, P. A.
- Aparna, V.**
- ; Ramakrishna, B. S.; Anna, P.; Susuama, P.; Murthy, S. N.

- Restitution of colonic mucosal barrier in injury and in inflammation: effect of butyrate, A360
- Aplin, J. D.**
—; Growth factor-extracellular matrix synergy in the control of trophoblast invasion, A19
—; Lacey, H.; Haigh, T.; Jones, C. J. P.; Chen, C.-P.; Westwood, M. Growth factor-extracellular matrix synergy in the control of trophoblast invasion, 199
- Appleford, P. J.**
—; Griffiths, M.; Chomey, E. G.; Yao, S. Y. M.; MacGregor, D.; Isaac, R. E.; Hope, I. A.; Coates, D.; Cass, C. E.; Young, J. D.; Baldwin, S. A. Probing the biological roles of nucleoside transporters using *Caenorhabditis elegans* as a model organism, A93
- Arab, S.**, See Sadeghi, M.
- Araki, H.**, See Kawabata, A.
- Araujo, M. F. L.**, See Tolezano, J. E.
- Arazi, T.**
—; Kaplan, B.; Sunkar, R.; Fromm, H. Cyclic-nucleotide- and Ca²⁺/calmodulin-regulated channels in plants: targets for manipulating heavy-metal tolerance, and possible physiological roles, 471
- Archakov, A. I.**, See Ivanov, A. S.
- ; Ivanov, Yu. D.; Kanaeva, L. P. Optical biosensor study of protein-protein interaction in cytochrome P450 monooxygenase systems, A415
- Arcus, V. L.**, See Lott, J. S.
- Argent, R.**
—; Parrott, A.; Day, P.; Roberts, L.; Stockley, P.; Lord, M.; Radford, S. Ribosome-mediated refolding of partially-unfolded ricin A-chain, A68
- Argibay, J.**, See Bozon, V.
- Arias, H. R.**
—; Localization of the quinacrine binding site on the nicotinic acetylcholine receptor, A199
- Arias, M. P.**, See Bugía, M. B.
- Arkani, H.**, See Rahbani, M.
- Armakolas, A.**
—; Liacos, C.; Katakis, A.; Konstadoulakis, M. M.; Androulakis, G. Increased apoptosis in normal lung cells: does apoptosis control lung cell proliferation and death?, A371
- Armstrong, S. J.**, See Franklin, F. C. H.
- Armugam, A.**, See Deivanayagam, S.; Ma, D. H.
- Arnvig McGulre, K.**, See von Wettstein-Knowles, P.
- ; McGuire, J. N.; von Wettstein-Knowles, P. Acyl carrier protein (ACP) inhibition and other differences between β -ketoacyl synthase (KAS) I and II, 607
- Aronde, V.**, See Beisson, F.
- Arons, E.**
—; Kunin, V.; Marash, L.; Ehrlich, R. Analysis of mouse TAP2 gene transcription, A387
- Arredondo, M.**
—; Mura, C.; Nunez, M. T. The hereditary hemochromatosis protein down-regulates apical iron uptake by Caco-2 cells, A160
- Arreguin, B.**, See Fenton, B.
- Arreguin, R.**, See Fenton, B.
- Arrighi, R. B. G.**, See Al-Olayan, E.
- Arrondo, J. L.**, See Vila, R.
- Arruda, P.**, See Borecky, J.
- Artukhovich, V. G.**, See Medvedeva, L. V.
- Arya, R.**
—; Bhattacharya, S.; Bhattacharya, A. Biosynthesis of lipophosphoglycan-like molecules in *Entamoeba histolytica*, A457
- Asamizu, E.**, See Sasaki, Y.
- Asbeck, K.**
—; Ruepp, S.; Roditi, I.; Gibson, W. The *Garp* gene in insect stages of *Trypanosoma (nannomonas)* species, A475
- Aschie, I.**, See Aschie, M.
- ; Aschie, M.; Bosoteanu, M.; Vamesu, S.; Rosoiu, N.; Grajdeanu, I. Histopathological issues in border-line and malignant ovarian tumor diagnosis, A218
- Aschie, M.**, See Aschie, I.
- ; Deacu, M.; Bejan, L.; Aschie, I.; Voinea, F.; Dumitru, E. Morphological and clinical aspects in viral chronic hepatitis, A154
- Asemota, H. N.**, See Brown, V. M. D.; Grindley, P. B.; Wheatley, A. O.
- ; Wheatley, A.; Brown, V. Biochemical and molecular studies on yams (*Dioscorea* sp.), dasheens (*Colocasia esculenta*) and cocoyams (*Xanthomonas* sp.) towards sustainable production in Jamaica, A290
- Asenjo, J. L.**, See Yañez, A. J.
- Åsgerisson, B.**
—; Andrésson, Ó. S. Alkaline phosphatase from a marine *Vibrio* sp.: heat-lability coincides with high catalytic efficiency, A308
- Ashby, R. D.**, See Solaimean, D. K. Y.
- Ashcroft, A. E.**, See Venter, H.
- ; Radford, S. E.; Coyle, J. E.; Pitkeathly, M.; Hartl, U. F. Investigation into the properties of a chaperone domain and analysis of the non-covalently bound complexes with peptide substrates using MS, A70
- Ashley, M. K.**, See Waterworth, W. M.
- Askari, J. A.**, See Mostafavi-Pour, Z.
- Aspinall, R.**
—; Andrew, D. Immunosenescence: potential causes and strategies for reversal, A4, 250
- Assender, J. W.**
—; Chapman, J. E.; Hall, S. K. Mitogen activated protein kinase mediated cell volume regulation, A272
- Astafurova, T. P.**, See Baranova, E. N.
- Aswad, D. W.**, See Stallcup, M. R.
- Ataullakhanov, F. I.**, See Krasotkina, Y. V.
- Atef, A.**, See Abdalla, E. M.
- Atjkhzhina, N. A.**
—; Hanseitova, A. K.; Dzisuk, N. V.; Ludvikova, E. K. Polymorphism in the human apolipoprotein B (apo B) gene directly typed by the polymerase chain reaction, A153
- Atkinson, B. G.**, See Qadir, M. A.
- Atomi, H.**, See Kitano, K.
- Atorino, K.**
—; Tramontano, F.; Malanga, M.; Di Meglio, S.; Farina, B.; Jones, R.; Quesada, P. PARP response to genotoxic stresses in differentiating rat germinal cells, A293
- Attisano, L.**, See Labbe, E.
- Attwood, P. V.**, See Popovski, S.
- Attwood, T.**, See Vaughan, S.
- Au, K. P.**, See Stead, L. M.
- Au, S. W. N.**
—; Wang, X. T.; Gover, S.; Engel, P. C.; Adams, M. J.; Lam, V. M. S. Beyond the human glucose-6-phosphate dehydrogenase (G6PD) gene: protein structure and function analyses, A229
- Auerbach, D.**, See Fuerst, D. O.
- Augusteyn, R. C.**
—; Jagger, W. S.; Hughes, A.A. Comparative lens growth and its underlying mechanisms, A385
- Austen, B. M.**, See El-Agnaf, O. M. A.; Sheridan, J. M.
- Austin, S. J.**, See Mills, K. I.
- Auton, T.**, See Martin, H.
- Avadhani, N. G.**, See Anandatheerthavarada, H. K.; Robin, M.-A.
- Avčý, A.**, See Durak, I.
- Avčý, A.**, See Öztürk, H. S.
- Avef, A.**, See Kacmaz, M.
- Avella, M.**, See Batt, K.
- Avella, M. A.**, See Lambert, M. S.; Zheng, X.
- Avila, J.**
—; Tau aggregation into fibrillar polymers: taupathies, A129
- Avis, J. M.**, See Elbesbshy, H.
- Avramopoulou, V.**, See Kostelidou, K.
- Avramovic, J. S.**, See Brkljacic, J. M.
- Awai, K.**, See Maréchal, E.; Sasaki, Y.; Yamaryo, Y.
- Ayala-Ochoa, A.**
—; Vargas-Suárez, M.; Loza-Tavera, H.; Sánchez de Jiménez, E. Two cDNAs encoding maize rubisco activase have two different 3'UTRs, A400
- Aydín, H. H.**
—; Çelik, H. A.; Terzioğlu, E.; Akarca, U.; Batur, Y. Fatty acid ethyl esters induced cellular changes in HepG2 cells, A372
- Ayupova, D. A.**
—; Zabotina, O. A. Plant oligosaccharides enhancing the low temperature adaptation, A400
- Ayyagari, A.**, See Singh, M. K.
- Azevedo, J. E.**, See Reguenga, C.
- Azhar, S.**, See Medicherla, R.
—; Leers-Sucheta, S.; Lua, Y.; Nomoto, A.; Reaven, E. Expression of HDL receptor (SR-BI) promotes channel formation in cells, A264
- Azim, M. K.**
—; Zaidi, A. H. In search of new mode of activation in aspartic proteinase zymogens, A441
- Azimpour, Ch.**
—; Amini, S. Hepatitis C virus genotyping in haemophiliacs in Tehran, A298
- Azizi, S. A.**, See Prockop, D. J.
- Azuma, T.**, See Furukawa, K.
- Azzi, A.**, See Ricciarelli, R.; Stocker, A.
- Azzi, E.**
—; Etebary, M.; Jahanzad, I.; Mohagheghi, M. A.; Ostad, S. N. Immunohistochemical analysis of BRCA1 in Iranian breast cancer patients, A219
- Babeanu, C.**, See Badea, E.
- Babes, A.**
—; Slowing of inactivation at positive potentials in a neuronal K⁺ channel is not due to preferential closed-state inactivation, A453
- Baboonian, C.**, See D'Cruz, L. G.
- Bach, T. J.**, See Hartmann, M.-A.
- Bachfischer, U.**, See Roopra, A.
- Bachmann, H.**, See Wyss, A.
- Bachvarov, D.**
—; Angers, M.; Bachvarova, M.; Paradis, I.; Marceau, F.; Drouin, R.

- In vivo* footprinting analysis of the human kinin B1 receptor gene promoter, A264
- Bachvarova, M.**, See Bachvarov, D.
- Backhouse, T. E.**
—; Gibson, W. C.
Serum resistance associated gene of a Zambian isolate of *Trypanosoma brucei rhodesiense*, A475
- Backmann, J.**, See Abgar, S.
- Badea, E.**
—; Marinescu, G.; Babeanu, C.; Corneanu, G. C.; Corneanu, M.
Effect of the inertial force on isoperoxides pattern and activity in *Cucumis sativus* hypocotyls and leaves, A400
- Bading, H.**, See Hardingham, G. E.
- Bae, J. S.**, See Kim, K. T.
- Bae, S.-H.**
—; Cholesterol biosynthesis from lanosterol: molecular cloning, tissue distribution, expression, chromosomal localization, and regulation of rat 7-dehydrocholesterol reductase, a Smith-Lemli-Opitz syndrome related protein, A443
- Bae, Y. S.**, See Sohn, B. H.
- Baehr, C.**
—; Marks, F.; Gschwendt, M.
DIK, a novel protein kinase. Interaction with protein kinase C delta A425
- Bafor, M. E.**, See Abigor, R. D.
- Bagheri, A.**
—; Amirshahi, P.; Farhud, D. D.; Behboodi, B. Sh.
Phenotypic frequencies of three genetic markers, ABO and RH blood groups and risk factors in myocardial infarction in brain, A299
- Baglio, P.**, See Finley, J. B.
- Bagramyan, K.**, See Markarian, S.
—; Mnatsakanyan, N.; Poladian, A.; Vassilian, A.; Trchounian, A.
Escherichia coli formate hydrogenlyase pathways: a requirement of the F_0F_1 ATP synthase for the activity of hydrogenase 4, A187
- Bahri, S.**
—; Lipase activity in germinating sunflower seedlings, 771
- Baidavletov, R. Zh.**, See Slivinsky, G. G.
- Bailes, E.**, See Sharp, P. M.
- Bailey, J. M.**
—; Fedo, C. M.
 CO_2 fixation and homochirality in an RNA world: biogeochemical evidence, A184
The role of RNA and carbon dioxide fixation in the origin of homochirality, A96
- Bailey, M.**, See Gibson, W.
- Bailey, T. A.**
—; Stephens, S. K.; Amin, S.; Alexander, R. A.; Luthert, P. J.; Chong, N. H. V.
Development of a model for age-related macular degeneration, A162
- Baines, A.**, See Baker, K. N.; Vaughan, S.
- Baines, A. J.**, See Newcombe, J.
- Bajaj-Elliott, M.**
—; Smith, G. V.; Maher, L. S.; Ali, R.; Quinn, A. G.; Farthing, M. J. G.
Induction of anti-microbial (beta-defensins) peptides by *H. pylori* and IL-1 in human gastric epithelial cell lines, A493
- Baker, A.**, See Oh, J.; Sparkes, I.
—; Biochemical and molecular approaches to understanding protein import into plant peroxisomes, A58
—; Charlton, W.; Johnson, B.; Lopez-Huertas, E.; Oh, J.; Sparkes, I.; Thomas, J.
Biochemical and molecular approaches to understanding protein import into peroxisomes, 499
- Baker, E. N.**, See Lott, J. S.
- Baker, K. N.**
—; Cook, A.; Roberts, G.; Gerardy-Schahn, R.; Baines, A.; James, D. C.
Metabolic engineering of recombinant protein sialylation, A259
- Baker, P. J.**, See Ruzhenikov, S. N.
- Bala, M.**
—; Gupta, S.; Pasha, W.
Effect of various buffer systems on angiotensin-converting enzyme activity, A318
—; Pasha, Q.; Bhardwaj, D. K.; Pasha, S.
Focused library of novel peptidomimics as possible angiotensin-converting enzyme inhibitors, A205
- Balaeff, A.**
—; Elastic rod model of DNA loops, A446
- Balaji, R. A.**
—; Ohtake, A.; Gopalakrishnakone, P.; Sato, K.; Kini, R. M.; Bay, B.-H.
A novel family of I-conotoxin characterized from venom of marine snail *Conus marmoreus*, A409
- Balandina, I. A.**, See Lemkina, L. M.
- Balaram, R.**, See Lewis, P. N.
- Balaspri, L.**, See Soomets, U.
- Balasubramanian, K. A.**, See Anup, R.
- Baldán, A.**
—; Ortiz, J. A.; Marrero, P. F.; Haro, D.
Coordinated control of the human muscle-type carnitine palmitoyltransferase I (hM-CPT I) by myogenic factors and PPARs in skeletal muscle. Implications for the management of NIDDM, A285
- Baldwin, A.**
—; Francis, D.; Rogers, H. J.; Harwood, J. L.
The inhibition of fatty acid elongation by pebulate can be effectively counteracted by the safener dichloromid, 650
- Baldwin, G. S.**, See Hollande, F.
- Baldwin, S. A.**, See Appleford, P. J.
- Baldwin, S. A.**, See Barnes, K.
- Baldwin, S. A.**, See Booth, Z. A.; Hadden, D. A.; Hyde, R. J.; Parker, M. D.; Patching, S. G.; Xie, H.
- Balestrieri, M. L.**
—; Longobardi, L.; Malone, B.; Lee, T.-c.
Cysteine is involved in the synthesis of C_2 -ceramide through platelet-activating factor (PAF)-dependent transacetylase, A356
- Bali, J. P.**, See Hollande, F.
- Balińska, M.**
—; Brzezińska, A.; Wińska, P.; Szblewska, I.
Characteristics of murine leukemia cells resistant to amethopterin and FdURD in relation to drug sensitive cells (parental): intracellular level of folates and folate enzymes, A200
- Balinska, M.**, See Kacprzak, M.
- Ball, P.**, See Green, M. T.
- Ball, S. G.**, See Smith, W. H. T.; Turner, N. A.
- Ballarin, C.**, See Negro, A.
- Ballesta, J. P. G.**, See Remacha, M.; Santos, C.
- Balmanno, K.**, See Cook, S. J.
- Balmforth, A. J.**, See Smith, W. H. T.; Turner, N. A.
- Balmukhanov, T. S.**
—; Ludvikova, E. K.; Dzisuk, N. V.; Ajtkhozina, N. A.
Investigation of genomic DNA polymorphism and divergence in irradiated human populations, A179
- Banaś, A.**, See Sandager, L.
—; Banaś, W.; Stenlid, G.; Stymne, S.
Selective increase in acyl hydrolase activity by graminicides in wheat, 777
—; Dahlqvist, A.; Dębski, H.; Gummeson, P.-O.; Stymne, S.
Accumulation of storage products in oat during kernel development, 705
—; Dahlqvist, A.; Ståhl, U.; Lenman, M.; Stymne, S.
The involvement of phospholipid:diacylglycerol acyltransferases in triacylglycerol production, 703
- Banaś, W.**, See Banaś, A.
- Banach, M.**
—; Stolarczyk, K.; Malanowska, K.; Fijalkowska, I. J.; Jonczyk, P.
In vivo protein interaction between *Escherichia coli* β sliding clamp and other proteins, A163
- Banaszak, L. J.**, See Bell, J. K.
- Bandiera, A.**, See Marsich, E.
- Bandyopadhyay, D.**
—; Kundu, S.; Thakur, A. R.
Phylogenetic trees based on genome flexibility: a new approach in the study of molecular evolution, A184
- Banerjee, D. K.**
—; Carrasquillo, E. A.; Martínez, J. A.
Phosphorylation site mutation and behavior of dolicholphosphate mannosyl synthase, A334
- Banfield, M. J.**, See Lott, J. S.
- Baniahmad, A.**, See Lutz, M.
- Banner, N.**, See Westbrook, J. A.
- Banoub, J.**, See Tebogo, O. M.
- Bansal, A.**, See Kapas, S.
- Banting, G.**, See Lee, S. S.
- Bao, X.**, See Ohlrogge, J.
- Baquer, N. Z.**
—; Gupta, D.; Yadava, P. K.
Reversal of diabetic complications by vanadium and plant derived antidiabetic compounds, A154
- Baranova, E. N.**, See Kononenko, N. V.
—; Kononenko, N. V.; Bragina, T. V.; Grineva, G. M.; Astafurova, T. P.; Kadykov, V. A.
Characterization of cell death process in plant cells induced by hypoxia and anoxia, A372
- Baranovskii, A.**, See Nevinsky, G.
- Barber, J.**, See Morris, E. P.
- Barbosa, J. A. R.**, See Tolezano, J. E.
- Barbosa, S. C. F.**, See Tolezano, J. E.
- Barciszewski, J.**, See Siemion, I. Z.
—; Wyszko, E.; Markiewicz, W. T.; Markiewicz, M.; Clark, B. F. C.
Analysis of 6-furfuryl-adenine (kinetin) effects on template properties of DNA, A163
- Bardowski, J.**, See Aleksandrak, T.; Kowalczyk, M.
- Barkagianni, E.**
—; Findlay, J. B. C.
Structural and functional studies of dopamine 2 receptor, A265
- Barker, C. J.**
—; Yu, J.; Leibiger, B.; Leibiger, I.; Caffrey, J. J.; Shears, S. B.; Berggren, P. O.
Overexpression of cytosolically-directed multiple inositol polyphosphate phosphatase in insulin secreting cells, A273
- Barker, H.**, See Ryabov, E. V.

- Barksby, E.**, See Clough, J. L.
- Barlow, A. L.**
—; van Drunen, C. M.; Johnson, C. A.; Turner, B. M.
Characterisation of *Drosophila melanogaster* histone deacetylases, A245
- Barnes, J. A.**, See Cuervo, A. M.; Gomes, A. V.
- Barnes, J. C.**
—; Oxidative signalling and inflammatory pathways in Alzheimer's disease, A17
- Barnes, K.**
—; Carson, J. A.; Turner, A. J.
Regulation of the isoforms of brain and endothelial endothelin-converting enzyme-1, A81
- Barnes, K.**
—; Ingram, J. C.; Barros, L. F.; Baldwin, S. A.
Signal transduction pathways involved in the activation of sugar transport by stress in clone 9 cells, A425
- Barnes, M. J.**, See Emsley, J.; Onley, D. J.
- Barnes, P. J.**, See Adcock, I. M.
- Barra, D.**, See Miele, R.
- Barrack, E. R.**, See Reddy, P. V. G.
- Barratt, C. L. R.**, See Kirkman-Brown, J. C.
- Barraza, A. B.**, See Jaramillo, L. R. D.
- Barrett, W. C.**, See Yim, M. B.
- Barritt, G. J.**, See Brereton, H. M.; Wang, Y.-J.
- Barros, L. F.**, See Barnes, K.
- Barry, J. D.**, See Fast, B.; Fotheringham, M. W.; McCulloch, R.
- Barsby, T.**, See Wilmer, J. A.
- Bartek, J.**
—; Control of G1/s progression in normal and cancer cells, A134
- Bartfai, T.**, See Gatti, S.
- Bartlett, K.**, See Eaton, S.
- Barton, D. L.**, See Katavic, V.
- Barton, G. J.**
—; Prediction of protein structure and function from the amino acid sequence, A22
- Barton, P. J. R.**, See Brand, N. J.
- Bartosova, M.**
—; Vrbacky, M.; Humlova, Z.; Melkova, Z.
Pro-apoptotic effect of Bcl-2 in cells relying on oxidative phosphorylation, A372
- Baru, M. B.**, See Ovchinnikova, T. V.
- Basak, S.**
—; Nagaraja, V.
Role of intrinsic and protein induced DNA distortion in the transactivation of mom gene of bacteriophage Mu, A441
- Bass, J. J.**, See Jeanplong, F.
- Bastin, P.**, See Francis, S.; Lawson, G.; Moreira-Leite, F. F.; Pullen, T. J.
- ; Kohl, L.; Moreira-Leite, F. F.; Gull, K.
Determination of gene function by inducible RNA interference, A476
- Basyouni, A.**, See El-Asmar, M. F.
- Bates, G.**
—; The molecular basis of Huntington's Disease and polyglutamine disorders, A125
- Bates, R. L.**, See Farquhar, M. J.
- ; Farquhar, M. J.; Howl, J.; Martin, A.
Differential regulation of 5-HT and β -hexosaminidase secretion in RBL-2H3 cells, A200
- Battle, A.**, See Caballero, F.
- Batt, K.**
—; Avella, M.; Botham, K. M.
Cholesterol esterification in monocytes, macrophages and foam cells from the human monocytic cell line THP-1, A342
- Batur, Y.**, See Aydyn, H. H.
- Bauer, K.**, See Papadopoulos, T.
- Bauer, M. K. A.**, See Albayrak, T.; Schoenfeld, N.
- Baum, L.**, See Leung, Y. F.
- Bauman, W. A.**, See Kahn, N. N.
- Baumanis, V.**
—; Pančuka, T.; Jansome, I.; Broka, L.; Leimane, V.; Marga, O.
Molecular studies of drug resistant *Mycobacterium tuberculosis* in Latvia, A466
- Baumann, C. T.**, See Hager, G. L.
- Bavec, A.**, See Slajpah, M.
- Bavinka, B.**, See Cvrckova, F.
- Baxter, G.**, See Wagner, S. E.
- Baxter, R.**, See Mackenzie, P. L.
- Baxter, R. L.**, See Mullan, L. J.
- Bay, B.-H.**, See Balaji, R. A.
- Bayer, C.**
—; Basic fibroblast growth factor (bFGF) as a survival factor from apoptosis acts upstream and downstream of caspase 3, A445
- Baylis, H. A.**, See Gower, N. J. D.; Harrington, L. S.; Kwan, C. S. M.
- Bayomi, R. A. L.**, See Tanira, M. O. M.
- Bayramov, Sh. M.**, See Guliev, N. M.
- Bdour, S.**, See Abbasi, L.
- Beale, E. G.**, See Eubank, D. W.
- Beaudoin, F.**, See Sayanova, O.
- ; Michaelson, L. V.; Lewis, M. J.; Shewry, P. R.; Sayanova, O.; Napier, J. A.
Production of C₂₀ polyunsaturated fatty acids (PUFAs) by pathway engineering: identification of a PUFA elongase component from *Caenorhabditis elegans*, 661
- Beck, C.**, See Cranz, S.
- Becker, D.**, See Schreiber, L.
- Becker, I.**
—; Berzunza-Cruz, M.; Perez-Montfort, R.
Leishmania mexicana mexicana: genetic heterogeneity of mexican isolates using restriction length polymorphism analysis of kinetoplast DNA, A245
- Beck, F.**, See Harris, C. M.; Stratford, F. L. L.
- Beddoe, T.**
—; Lithgow, T.
Ribosome binding to the surface of mitochondria: mechanisms and consequences, A457
- Beer, B. E.**, See Sharp, P. M.
- Behboodi, B. S. H.**, See Pour, A. E.
- Behboodi, B. Sh.**, See Bagheri, A.
- ; Motamed, N.
Glyoxysomes in *Pistachio vera* (a biochemical and microscopical study), A361
- Behr, D.**, See Clarke, E.
- ; Lewis, H. D.; Clarke, E.; Thomas, N.; Kalaria, R.; Shearman, M. S.
Surface-enhanced laser desorption/ionization-time-of-flight (SELDI-TOF) mass spectrometry of amyloid- β peptides generated in cell culture models and human brain gives novel insights into γ -secretase mechanisms, A34
- Behlke, J.**, See Mücke, M.
- Beis, Is. D.**, See Aggeli, I.-C. S.
- Beisson, F.**
—; Arondel, V.; Verger, R.
Assaying *Arabidopsis* lipase activity, 773
- Bejan, L.**, See Aschie, M.
- Bejar, S.**, See Marzouki, N.
- Bekenov, A. B.**, See Slivinsky, G. G.
- Bektas, A.**, See Gokhun, I. H.
- Belguith, H.**
—; Jridi, T.; Ben Hamida, J.
Evidence of cross-reactivity between porcine pancreatic and rapeseed (*Brassica napus* L.) lipases, 974
- Beliaev, D. K.**
—; Lobov, I. B.
SAF-A and lamin B binding specificity *in vitro* depends on the satellite DNA bending state, A245
- Belkacemi, L.**
—; Millner, P. A.; Smith, J. E.
The role of nitric oxide in *Toxoplasma gondii* stage conversion, A476
- Belknap, B.**, See Heeley, D. H.
- Bell, J. E.**
—; Bell, J. K.
The folding of the first domain of cystatin, A409
- Bell, J. E.**
—; From recipe to research: new way to teach and learn biochemistry and molecular biology, A110
- Bell, J. K.**, See Bell, J. E.
- ; Wright, S. K.; Viola, R. E.; Banaszak, L. J.
E. coli malate dehydrogenase R153C: structural analysis of an active site mutant, A415
- Bell, J. S.**, See McCulloch, R.
- Bellen, H.**, See Cobbe, N.
- Belline, P.**
—; Melo, P. S.; Haun, M.; Palhares, F. B.; Gontijo, J. A.; Figueiredo, J. F.
Cytotoxicity of DUP 753 in macrophages evaluate by different endpoints, A294
- Beltramini, L. M.**, See Campana, P. T.
- Belyaeva, T.**, See Howard, V. J.
- Belyakova, N. V.**, See Shevelev, I. V.
- Bencina, M.**
—; Štaudohar, M.; Panemann, H.; Ruijter, G. J. G.; Visser, J.; Legiša, M.
The relationship between cAMP-dependent protein kinase and morphology of *Aspergillus niger*, A425
- Benedito, A. B.**
—; Carneiro, A. C. D.; Lopes, U. G.
NF-kappaB activation regulates apoptosis induced by the DNA damage agent etoposide, A372
- Benham, A. M.**
—; Cabibbo, A.; Fassio, A.; Bulleid, N.; Sitia, R.; Braakman, I.
The role of the CXXCXXC motif in the human Erol-L protein A409
- Ben Hamida, J.**, See Belguith, H.; Triki, S.
- Benitez, J.**
—; Lorite, M.-J.; Burt, A. D.; Day, C. P.; Thompson, M. G.
Nucleotides stimulate phospholipase I activity in hepatic stellate cells: evidence for the involvement of a single nucleotide receptor, protein kinase C and a pertussis toxin insensitive guanine-nucleotide binding protein, A265
- Benkovic, S.**
—; The transformylase enzymes in *de novo* purine biosynthesis, A122
- Bennčina, M.**
—; Štaudohar, M.; Panemann, H.; Ruijter, G. J. G.; Visser, J.; Legiša, M.
Relationship between cAMP-dependent protein kinase and morphology of *Aspergillus niger*, A457
- Benne, R.**, See van den Burg, J.

- Bennett, D. H.**
—; Szöör, B.; Alphey, L. S.
PP1 and developmental signalling,
A425
- Bennett, M. J.,** *See* Evans, R. D.;
Swarup, R.
- ; Auxin transport: providing a sense
of direction during plant
development, A57
- Benning, C.,** *See* Härtel, H.; Ohlrogge, J.
- Bennouna, M.,** *See* Ahyayauch, H.
- Ben-Tal, N.,** *See* Kessel, A.
- Benveniste, I.,** *See* Pinot, F.
- Benveniste, P.,** *See* Bouvier-Navé, P.;
Rahier, A.
- Berengena, M.,** *See* Sepúlveda, M. R.
- Berezov, T. T.**
—; Lukashova, E. V.; Gogichayeva,
N. V.; Khaduev, S. Kh.
Conjugation of antitumor enzyme L-
lysine α -oxidase with antibodies
using glutaraldehyde, A219
- Berezovsky, I. N.**
—; Namiot, V. A.; Tumanyan, V. G.;
Esipova, N. G.
Towards hierarchy of protein domain
structure, A457
- Berger, P.,** *See* Rumpold, H.;
Untergasser, G.
- Berges, T.,** *See* Grabinska, K.
- Berggren, P. O.,** *See* Barker, C. J.
- Berglund, A. H.**
—; Quartacci, M. F.; Liljenberg, C.
Changes in plasma-membrane lipid
composition: a strategy for
acclimation to copper stress, 905
- Berhane, Y.,** *See* Lambert, M. S.
- Berkelman, T.,** *See* Yan, J.
- Berks, B. C.**
—; The bacterial Tat protein export
pathway, A58
- Birmingham, J.,** *See* Dockery, P.
- ; Jenkins, D.; McCarthy, T.;
O'Brien, M.
Genetic analysis of HLA-G and
insulin-like growth factor II in pre-
eclampsia, A47
Genetic analysis of insulin-like growth
factor II and HLA-G in pre-
eclampsia, 215
- Bernillon, J.,** *See* Vessillier, S.
- Berninger, R. W.,** *See* Goffe, R. A.
- Bernjak, D.,** *See* Abram, V.
- Berrow, N. S.,** *See* Hanlon, M. R.
- Berrow, N. S.,** *See* Hanlon, M. R.
- Berry, A.,** *See* Hilcenko, C.;
Pradhananga, S.; Williams, G.
- Berry, C. B.**
—; McBean, G. J.
Structure-activity relationships of free
fatty acids causing an inhibition of
D-aspartate transport, A38
- Berry, E.**
—; Structure and mechanism of
cytochrome bc_1 complexes, A100
- Berry, M. N.**
—; Intact isolated hepatocytes: thirty
years on, A9
—; Phillips, J. W.
The isolated hepatocyte preparation:
30 years on, 131
- Bersimbaev, R. I.**
—; Yugai, Y. E.; Hanson, P. J.; Tsoy,
I. G.
Effect of nitric oxide on apoptotic
activity in rat gastric mucosa, A375
- Bertoli, A.,** *See* Negro, A.
- Berzunza-Cruz, M.,** *See* Becker, I.
- Bessho, T.,** *See* Ohyama, K.
- Bessoule, J.-J.,** *See* Akermoun, M.;
Maisonneuve, S.
- Betts, V.**
—; Collins, P. B.
Effect of homocysteine on tumour
necrosis factor α production by a
monocytic cell line, A25
- Betty, S.,** *See* Scrivivasan, K. N.
- Beutler, B.**
—; TLR4 as a direct interface with
the microbial world, A489
- Bevan, M.**
—; Plant genomics and functional
genomics, A131
- Beverley, P. C. L.,** *See* Soares, M. V. D.
- Beverley, S.**
—; The role of surface
glycoconjugates in *Leishmania*
pathogenicity, A117
- Bevilacqua, G.,** *See* Rovigatti, U.
- Beyreuther, K.,** *See* Hesse, L.
- Bezouka, K.,** *See* Sopko, B.
- Bezouska, K.,** *See* Pavlicek, J.
- Bhardwaj, D. K.,** *See* Bala, M.
- Bhargava, V.,** *See* Kapas, S.
- Bharghav, B.,** *See* Luthra, K.
- Bhattacharjee, H.**
—; Zhou, T.; Li, J.; Gatti, D. L.;
Walmsley, A. R.; Rosen, B. P.
Structure-function relationships in an
anion-translocating ATPase, 520
- Bhattacharya, A.,** *See* Arya, R.
- Bhattacharya, S.,** *See* Arya, R.
- Bhattacharya, S. S.,** *See* Newbold, R. J.
- Bhattacharyya, S.,** *See* Griep, M. A.
- Bhogal, R. H.**
—; Blank, J. L.; Challiss, R. A. J.
Interactive regulation of ERK and
JNK signalling pathways by the M₃-
muscarinic receptor and β_2 -
adrenoceptor co-expressed in CHO
cells, A426
- Bhuddhisawadi, V.,** *See*
Patrakitkomjorn, P.
- Blacs, P. A.**
—; Daood, H. G.
Lipoxygenase-catalysed degradation of
carotenoids from tomato in the
presence of antioxidant vitamins,
839
- Bialorskórska, M.,** *See* Maliszewska-
Tkaczyk, M.
- Bianchi M.,** *See* Magnani, M.
- Bibby, M. C.,** *See* Blackburn, A.
- Bickerstaff, M.,** *See* Noursadeghi, M.
- Bielawski, W.**
—; Jankiewicz, U.
Purification and characteristics of
phenylalanine aminopeptidase of
Pseudomonas sp., A308
- Biesaga-Kościełniak, J.,** *See* Filek, M.
- Biesaga-Kościełniak, J.,** *See* Marcińska, I.
- Bigogno, C.,** *See* Cohen, Z.
- Bill, R. M.**
—; Hedfalk, K.; Karlgren, S.;
Rydström, J.; Hohmann, S.
Loop B of the yeast major intrinsic
protein (MIP) channel, Fps1p, may
play a role in the determination of
glycerol transport direction, A91
- Billington, K. J.,** *See* Bumstead, J. M.;
Tomley, F. M.
- Bingham, R. J.**
—; Trinh, C.; Phillips, S. E. V.
Structure determination of Ance and
Acer-*Drosophila melanogaster*
homologues of human angiotensin-
converting enzyme (ACE), A96
- Bingham, S.**
—; Diet and colorectal cancer
prevention, A7
- Bingham, S. A.**
—; Diet and colorectal cancer
prevention, 12
- Bingle, L. E. H.,** *See* Gibson, W.
- ; Zatyka, M. M.; Thomas, C. M.
Regulation of transfer genes in the
broad host-range plasmid RK2,
A176
- Birch, J.,** *See* Sage, E.
- Birch-Machin, M. A.,** *See* Ray, A. J.
- Birchmeier, C.,** *See* Garratt, A. N.
- Bird, A.**
—; Functional studies of proteins that
bind to methylated DNA, A113
- Birkett, S. D.**
—; Taylor, C.; Izzard, T. D.; Keen,
C.; Zaltsman, A.; Newby, A. C.
The antiproliferative action of cGMP
is mediated by a delay in cyclin D1
expression and inhibition of cyclin
D1/Cdk4 and cyclin E/Cdk2 activity
in rat vascular smooth muscle cells,
A366
- Birkholtz, L.-M.**
—; *Plasmodium falciparum* ornithine
decarboxylase: molecular
characterization and recombinant
expression, A452
- Bisugo, M. C.,** *See* Tolezano, J. E.
- Biswas, B. B.,** *See* Padmanabhan, U.
- Biswas, G.,** *See* Anandatheerthavarada,
H. K.; Robin, M.-A.
- Bittner, M.,** *See* Daniels, R. H.
- Bitton, S.,** *See* Sadek, O.
- Björklund, G.,** *See* Miele, R.
- Black, K. M.**
—; Clark-Lewis, I.; Wallace, C. J. A.
An absolutely conserved tryptophan:
investigating its role in cytochrome
c, A263
- Blackburn, A.,** *See* Masterson, C.
- ; Bibby, M. C.; Nicolaou, A.
Cobalamin-dependent methionene
synthase and related metabolites in
mouse colon tumour model, A220
- ; Yates, Z.; Lucock, M. D.; Bibby,
M. C.; Nicolaou, A.
Folate profiling in a methionine
dependent mouse colon tumour
model, A224
- Blackstock, W.,** *See* Gostick, D.
- Blackwood, D. H.,** *See* Taylor, M. S.
- Blackwood, D. H. R.,** *See* Millar, J. K.
- Blacque, O. E.**
—; Worrall, D. M.
Searching for novel protein targets for
the tumour suppressor protein,
maspin (or mammary serine
protease inhibitor), A31
- Blagoi, Y.,** *See* Hackl, E.; Shcherbakova,
A.
- Blahut-Beatty, L. M.**
—; Sawhney, V. K.; Bonham-Smith,
P. C.
Cytokinin-induced epigenetic
inheritance of an 'extra stamens'
phenotype in *Brassica rapa* flowers,
A208
- Blakeley, C. M.,** *See* Tan, S.-L.
- Blanc, E.,** *See* Hollande, F.
- Blank, J. L.,** *See* Bhogal, R. H.; Burdon,
D.; Deacon, K.; Hornigold, D. C.
- Blasco, M.**
—; Telomeres and telomerase:
cancer, aging and DNA repair,
A108
- Blasiak, J.,** *See* Smolarz, B.
- Blaszczak, A.,** *See* Liszewska, F.
- Blée, E.,** *See* Noehringer, C.
- Block, M. A.,** *See* Maréchal, E.
- Blom, D.,** *See* van den Burg, J.
- Bloom, S. R.,** *See* Hay, D. L.
- Blouin, C.**
—; Wallace, C. J. A.
The biophysics of charge solvation.
Probing the dielectric effect of a
single buried water molecule in
cytochrome *c*, A264
- Blowers, D. P.,** *See* Haye, H. R.
- Blume, A.,** *See* Sperling, P.
- Blundell, P.,** *See* Fast, B.
- Blundell, T. L.,** *See* Hyvonen, M.; Innis,
C. A.; Pellegrini, L.

- Bo, N.**, See Jun, X.
 —; Jun, X.; Chen, N. L.; Ling, W.; Wang, H. Z.; Tao, Y.; Chang, B. M. Cloning, expressing human hepatocyte growth factor-beta gene and analysing its gene character, A338
- Bobeszko, M.**
 —; Sphingosine, imipramine and propranolol stimulate phospholipase D independently of protein kinase C in glioma C6 cells, A445
- Bobik, E.**, See Das, T.
- Bodles, A. M.**
 —; Guthrie, D. J. S.; Harriott, P.; Campbell, P.; Irvine, G. B. Studies on toxicity of N-terminal fragments of the non-amyloid- β component of Alzheimer's disease amyloid, A34
- Boehning, D.**
 —; Joseph, S. K. Physical coupling of ligand binding and pore domains in homo- and heterotetrameric inositol 1,4,5-trisphosphate receptors, A388
- Bogdan, J.**, See Zagdanska, B. M.
- Bogdanov, A.**
 —; Functional topography of the ribosome, A104
- Bogdanovskaya, V.**, See Fridman, V.
- Bogdonovic, N.**, See Bonkale, W. L.
- Bög-Hansen, T. C.**, See Leick, V.
- Bogomolnaya, L. M.**
 —; Filimonova, M. N. Bioenergetic processes as a factor regulating secretion of isoforms of *Serratia marcescens* nuclease, A441
- Bogoyevitch, M. A.**, See Kendrick, T. S.; Morshead, T. C.
- Bögre, L.**, See Weingartner, M.
- Bogusiewicz, M.**
 —; Activity of collagen-bound matrix metalloproteinases -2 and -9 in tumours of human uterine corpus, A442
- Böhm, G.**, See Esser, D.; Schmidt, U.
- Bolad, I.**, See Westbrook, J. A.
- Bolignano, B.**, See Fowler, S.
- Bolhuis, A.**, See Woolhead, C.
- Bollengier, F.**
 —; Braet, C.; Claeysens, M.; Mahler, A. Biochemical characterization of isolated glycosylated 26 kDa rat prolactin, A335
- Bolwien, C.**, See FASTERMANN, D.; Heitbrink, D.
 —; Heberle, J. ATR/FTIR spectroscopy with microsecond time resolution: dynamics of membrane proteins on the single residue level, A187
- Bommer, U.-A.**
 —; Borovjagin, A. V.; Russell, P.; Greagg, M. A.; Jeffrey, I. W.; Clemens M. J. The mRNA of the translationally controlled protein TCTP/P23 binds to and activates the dsRNA-dependent protein kinase PKR, A426
- Bonanou-Tzedaki, S.**, See Kolettas, E.
- Bond, U.**, See Campbell, S.
- Bonham, K.**
 —; Ritchie, S.; Dehm, S.; Boyd, F. M. Human SRC gene expression is controlled by two closely linked alternative promoters, A285
- Bonham-Smith, P. C.**, See Blahut-Beatty, L. M.; McIntosh, K. B.
- Bonkale, W. L.**
 —; Cowburn, R. F.; Bogdonovic, N.; Ohm, T. G.; Fastbom, J. Reduced [3 H]cGMP binding in brain staged in Alzheimer's disease pathologies, A38
- Bonn, T.**, See Pike, A. C. W.
- Boonla, C.**, See Patrakitkomjorn, P.
- Boonsiri, P.**
 —; Naowaratwattana, W.; Yongvanit, P.; Panthongviriyakul, C.; Kietchusakul, P.; Khampitak, T. Plasma antioxidant levels in premature Thai infants, A154
- Booth, P. J.**, See Allen, S. J.
- Booth, P. J.**
 —; Manipulating the folding of membrane proteins: using the bilayer to our advantage, A50
- Booth, V. K.**
 —; Flint, D.G.; White, G. F.; Hallett, F. R.; Zhang, Z.; Woolley, G.A.; Wallace, B. A.; Smart, O. S. The biochemical activities of the aggregate formed by linear gramicidin in an aqueous environment, A348
- Booth, V. K.**
 —; Wharton, C. W.; Smart, O. S. Linking of FTIR data to structure: application to cinnamoyl-chymotrypsin, A416
- Booth, Z. A.**
 —; Abidi, F.; Ingram, J. C.; Musa, H.; Boyett, M. R.; Cass, C. E.; Young, J. D.; Baldwin, S. A. Nucleoside transporters in the mammalian heart, A93
- Bordoli, R.**, See Gostick, D.
- Borecky, J.**
 —; Maia, I. G.; Costa, A. D. T.; Bresciani Martins de Andrade, P.; Jezek, P.; Chaimovich, H.; Vercesi, A. E.; Arruda, P. Functional reconstitution of *Arabidopsis thaliana* plant uncoupling mitochondrial protein (PUMP) expressed in *E. coli*, A187
- Boren, J.**, See Comin, B.
- Borges, A.**
 —; Sánchez de Villarreal, S.; de Becemberg, I. L.; Alfonso, M. J.; González de Alfonso, R. ANP- and CNP-sensitive guanylyl cyclases are present in bovine airway smooth muscle, A265
- Borisov, V.**
 —; Haem-haem interactions in cytochrome *bd* oxidase studied by femtosecond spectroscopy, A448
- Bork, P.**
 —; Comparative sequence analysis, A107
- Born, W.**, See Leuthäuser, K.
- Bornman, L.**, See Byth, H.-A.
- Boros, L. G.**, See Comin, B.
- Borovjagin, A. V.**, See Bommer, U.-A.
- Borrell, Y.**, See Espinosa, G.
- Borro, M.**, See Miele, R.
- Borst, J.**, See Tepper, A. D.
- Bortoleto, R. K.**, See Ward, R. J.
- Boryssov, S. I.**, See Matyshevska, O. P.
- Borzecka-Prokop, B.**, See Filek, M.
- Boshart, M.**, See Engstler, M.; Fast, B.; Hassan, P.
- Bosisio, D.**, See Muzio, M.
- Bosoteanu, M.**, See Aschie, I.
- Bosquet, N.**, See Roy, B.
- Botham, K. M.**, See Batt, K.; Goulter, A. B.; Lambert, M. S.; Zheng, X.
- Botto, M.**
 —; Complement deficiency, apoptosis and autoimmunity, A488
- Boukouvata, S.**
 —; Sim, E. Tissue-specific expression of arylamine N-acetyltransferases in mice, A200
- Bourgaud, F.**, See Gontier, E.
- Boussouel, N.**, See Gontier, E.
- Bouvier-Navé, P.**
 —; Benveniste, P.; Noiriél, A.; Schaller, H. Expression in yeast of an acyl-CoA: diacylglycerol acyltransferase cDNA from *Caenorhabditis elegans*, 692
- Bouwman, P.**, See Göllner, H.
- Bowater, R. P.**, See Parniewski, P.
- Boyd, F. M.**, See Bonham, K.
- Boyett, M. R.**, See Booth, Z. A.
- Bozhenok, L. N.**
 —; Chernolovskaya, E. L.; Kobets, N. D.; Khazina, E. B.; Shishkina, I. G.; Godovikova, T. S.; Zarytova, V. F.; Vlassov, V. V.; Knorre, D. G. Investigation of chromatin structure by probing with oligonucleotide conjugates, A458
- Bozkurt, A. I.**
 —; Meram, I.; Kilincer, S.; Özçirpici, B.; Özgür, S.; Tarakçioğlu, M.; Çataloluk, O. Vitamin A and β -carotene levels of pregnant women in Gaziantep, A195
- Bozon, V.**
 —; Argibay, J. Agonist-like effects of an antipeptidic antibody (AC G21V) raised against the exolooop 2 on human cardiac recombinant 5-HT4 receptor activity, A254
- Braakman, I.**, See Benham, A. M.
- Braden, M.**, See McEllone, M.
- Bradley, A.**
 —; Extracting function from the mouse genome, A113
- Bradley, C. P.**
 —; The role of the GP: imparting clinical science to the layman, A1
- Bradshaw, S. J.**, See Wilkes, T. M.
- Braet, C.**, See Bollengier, F.
- Bragina, T. V.**, See Baranova, E. N.
- Brahmachari, S. K.**, See Pasha, M. A. Q.
- Brand, M.**
 —; Control of energy metabolism, A106
- Brand, N. J.**
 —; Mullen, A. J.; Barton, P. J. R.; Yacoub, M. H. Novel C₂H₂ zinc finger genes identified from human heart: implications for evolution and significance to cardiac gene regulation, A176
- Brandenburg, K.**
 —; Harris, F.; Phoenix, D. A.; Wiese, A.; Seydel, U. Membrane interactions *Escherichia coli* penicillin-binding proteins 4 and 5, A318
- Brandt, A.**, See Terp, N.
- Brass, V.**, See Martens, U. M.
- Brasseur, R.**, See Soomets, U.
- Braun, F.**, See Dimova, D.
- Brauner, P.**
 —; Flachs, P.; Kopecký, J. Immunodetection of UCP1, UCP2, and UCP3 in human and mouse tissues, A187
- Bray, C. M.**, See Waterworth, W. M.
- Bray, C. M.**, See Waterworth, W. N.; West, C. E.
- Bray, J. E.**, See Pearl, F.
- Bray, J. J.**, See Roobol, A.
- Bredl, J.**, See Horsnell, W. G. C.
- Breek, K.**, See van den Burg, J.
- Breen, K. C.**, See Dabelić, S.
 —; Role of post-translational modifications in amyloid- β precursor protein (A β PP) processing, A14
- Breit, S.**, See Warton, K.
- Brennan, R. G.**, See Vazquez-Laslop, N.
- Brennecke, S. P.**, See Freed, K. A.

- Brenneman, D. E.**
 —; Protective peptides derived from novel glial proteins, A61
 —; Spong, C. Y.; Gozes, I.
 Protective peptides derived from novel glial proteins, 452
- Brentani, R. R., See Freitas, A. R. O.**
- Breton, H. M.**
 —; Rychkov, G.; Chen, J.; Harland, M. L.; Barritt, G.J.
 Maitotoxin-activated TRP-1 calcium channels in a rat liver cell line, A388
- Bresciani Martins de Andrade, P., See Borecky, J.**
- Breskvar, K., See Cernila, B.; Slajpah, M.**
- Študochar, M., See Bencina, M.**
- Breyne, P.**
 —; Dreesen, R.; Constandt, H.; Cannoot, B.; Rombaut, D.; Zabeau, M.
 AFLP-based genome-wide expression analysis of tobacco BY2 cell cycle modulated genes, A228
- Brezinova, A., See Zazimalova, E.**
- Brigelius-Flohe, R., See Florian, S.**
- Briggs, T., See Roopra, A.**
- Bright, H., See Hickling, T. P.**
- Brightman, F. A.**
 —; Thomas, S.; Fell, D. A.
 Simulation and control analysis of a growth factor signal transduction pathway, A273
- Brion, J. P., See McLoughlin, D. M.**
- ; Tau protein phosphorylation in Alzheimer's disease and in experimental models, A15
- Brisson, J.-R., See Young, N. M.**
- Britland, S. T., See Yeung, C. K.**
- Brito, C. P., See Costa, M. J.**
- Brito, R. M. M., See Quintas, A.**
- Brkljacic, J. M.**
 —; Avramovic, J. S.; Maksimovic, V. R.
 Expression analysis of buckwheat metallothionein, A401
- Brocklehurst, K. J.**
 —; Vertigan, H. L.; Gurrell, I. K.; Davies, R. A.; Waddell, I. D.
 Effect of D158A mutation in human pancreatic GLK on regulation by liver GKR and fructose phosphates, A192
- Brockwell, D.**
 —; Clarkson, J.; Smith, A.; Radford, S.
 Towards single molecule unfolding of proteins using atomic force microscopy (AFM) and its observation using fluorescence, A69
- Broco, M.**
 —; Agostinho, M.; Oliveira, S.; Rodrigues-Pousada, C.
 Recombinant expression of the FMN binding protein flavodoxin from the bacterium *Desulfovibrio gigas*, A170
- Broka, L., See Baumanis, V.**
- Bronisz-Kowalczyk, A., See Zablocka, B.**
- Brooker, N. L.**
 —; Long, J. H.; Stephan, S. M.
 Field assessment of plant derivative compounds for managing fungal soybean diseases, 917
- Brophy, V. H., See Li, W. F.**
- Brosnan, J. T., See Jacobs, R. L.; Stead, L. M.**
- Brosnan, M. E., See Jacobs, R. L.; Stead, L. M.**
- Brown, A., See Kad, N.**
- Brown, A. P., See Wilmer, J. A.**
- Brown, B., See Pham, T. N. Q.**
- Brown, C., See Farquhar, M. J.**
- Brown, D. R., See Wong, B.-S.**
- ; Hafiz, F. B.; Gunaratne, R. S.
 Native prion protein binds copper and is an antioxidant, A304
- Brown, G., See Hughes, P.**
- Brown, G. C., See Soboll, S.**
- Brown, J., See Gostick, D.**
- Brown, K. A., See Eady, N. A. J.; Jesmin; Lawton, D. G.; Sangiambut, S.; Saunders, J. E.; Shafiq, M.; Skinner, M. A.**
- Brown, P. J., See O'Sullivan, J. M.**
- Brown, R., See Gonsalvez, I. S.**
- Brown, R., See Gonsalvez, I. S.; Hollingsworth, E. J.**
- Brown, S. E., See Dixon, N. E.**
- Brown, V., See Asemota, H. N.**
- Brown, V. M. D.**
 —; Asemota, H. N.; Mantel, S. H.; Stevens, C. A.; Mansfield, J.
 Molecular analyses of bacterial pathogenicity in dasheen (*Colocasia* sp.) and cocoyam (*Xanthosoma* sp.) grown in Jamaica, A179
 —; Asemota, H. N.; Thangavelu, M.; Mantel, S. H.
 Study of the genetic diversity and relatedness among dasheens (*Colocasia* sp.) and cocoyams (*Xanthosoma* sp.) grown in Jamaica, A290
- Browse, J., See Schnurr, J. A.; Shockey, J.; Tilton, G.**
- Bruce, N. C.**
 —; New uses for an old enzyme: engineering enzymes to degrade explosives, A53
- Bruchez, M. P., See Daniels, R. H.**
- Bruford, E., See Wain, H.**
- Brugger, R., See Wyss, A.**
- Brun, D., See Maréchal, E.**
- Bruner, A. C., See Powell, G. L.**
- Brusig, S. A., See Goffe, R. A.**
- Bryce, S., See Parkinson, E. K.**
- Bryson, S., See Vincent, J. B.**
- Brzesinski, P., See Heitbrink, D.**
- Brzezińska, A., See Balińska, M.**
- Brzozowski, A. M., See Pike, A. C. W.**
- Buchberger, B., See Nemetz, C.; Zaiss, K.**
- Buckley, A., See Creighton, P.**
- Buckley, D., See O'Riordan, T.**
 —; Spellacy, N.; O'Connor, R.
 Fission yeast as a model to study insulin-like growth factor-I receptor tyrosine kinase regulation, A29
- Buckley, N. J., See Roopra, A.; Wood, I. C.**
- Buczek, O., See Grzesiak, A.**
- Budriunaite, A.**
 —; Investigation of the effect of NO on mitochondrial function in the presence of elevated Ca²⁺ concentrations, A449
- Bugía, M. B.**
 —; Piñero, A.; Czarnecki, J.; Arias, M. P.; Nogueira, M.
 Cellular receptors for prothymosin alpha, A270
- Buist, P. H., See Meesapyodsuk, D.**
- Bukowski, J.**
 —; Recognition of non-peptide antigens and the role of human gamma delta T-cells in innate and adaptive immunity, A119
- Bull, T., See Sheridan, J. M.**
- Bulleid, N., See Benham, A. M.**
- Bulleid, N. J.**
 —; Design and expression of novel collagens, A55
 —; John, D. C. A.; Kadler, K. E.
 Recombinant expression systems for the production of collagen, 350
- Buluwela, L., See Wynn, S. L.**
- Bulweld, J. M., See Tomley, F. M.**
 —; Billington, K. J.; Tomley, F. M.
 Identification of a putative albumin binding protein in sporozoites of *Eimeria tenella*, A476
- Buneva, V., See Nevinsky, G.**
- Bunnnett, N. W., See DeFea, K.**
 —; Mechanism and function of agonist-induced trafficking of G-protein-coupled receptors, A59
- Burdon, D.**
 —; Patel, R.; Challiss, R. A. J.; Blank, J. L.
 Growth regulation by recombinant muscarinic acetylcholine receptors expressed in chinese hamster ovary cells, A426
- Burgoyne, L. A.**
 —; Programmed deaths and chromatin structure: pyknosis, A373
- Burke, D., See Pellegrini, L.**
- Burke, J., See Ruzhenikov, S. N.**
- Burke, R., See Hughes, E.A72**
- Burlando, B., See Panfoli, I.**
- Burnett, A. K., See Gilkes, A. F.; Mills, K. I.**
- Burns, S. P.**
 —; Murphy, H. C.; Cohen, R. D.; Iles, R. A.
 Heterogeneity of fructose metabolism in the liver, A25
- Bursby, T., See Eaton, S.**
- Burt, A. D., See Benitez, J.**
- Burt, S. K., See Abachkine, I. G.**
- Burton, D. R., See Wong, B.-S.**
- Burton, P., See McCulloch, R.**
- Burzynska, B., See Grabowska, D.**
- Busby, S. J. W., See Howard, V. J.; Sanderson, A.; Wade, J. T.**
- Butcher, A., See Hanlon, M. R.**
- Butler, G., See Kelly, M. T.**
- Butler, P., See Punshon, G.**
- Buttinelli, M., See Negri, R.**
- Buyukkocak, S., See Durak, I.; Kacmaz, M.**
- Büyükkinal Bal, E. B.**
 —; Akkaya, M. S.
 Detection of the polymorphism levels of the Turkish bread wheat genotypes of SSR markers, A245
- Bvochora, J. M.**
 —; Read, J. S.; Zvauya, R.
 Changes occurring in sorghum phenolic compounds during fermentation to produce *mahewu* and opaque beer, A290
- Byrne, B.**
 —; Abramson, J.; Jormakka, M.; Iwata, S.
 Development and characterization of novel *E. coli* expression vectors for the production of membrane proteins for structural studies, A416
- Byrne, P.**
 —; Conroy, S.; Newsholme, P.
 Evidence for complement activation in type 1 diabetes, A31
- Byth, H.-A.**
 —; Kuun, K. G.; Okole, B.; Bornman, L.
 Resistance-specific induction of Hsp70/Hsc70 in tomato by *Ralstonia solanacearum*, A401
- Bzik, D. J., See Fox, B. A.**
- Caballero, F.**
 —; Gerez, E.; Oliveri, L.; Falcoff, N.; Batlle, A.; Vazquez, E.
 Promoting action of tamoxifen in a model of hepatocarcinogenesis induced by p-dimethylaminoazobenzene, A225
- Cabane, C.**
 —; Englaro, W.; Yeow, K.; Jelski, B.; Ragno, M.; Derjard, B.
 SAPK induced transcriptional regulation during myogenesis, A273

- Cabibbo, A.**, See Benham, A. M.
- Cabodevilla, J. F.**
—; Odrizola, L.; Martínez Irujo, J. J.
HIV-1 reverse transcriptase: analysis of dimerization and effect of the combination of chain terminating nucleotides, A308
- Cabrera, N.**
—; Garza-Ramos, G.; Gómez-Puyou, A.; Rojo-Domínguez, A.; Tuena de Gómez-Puyou, M.; Perez-Montfort, R.
Stability and kinetics of triosephosphate isomerase from *Trypanosoma cruzi* with an enlarged dimer interface loop, A318
- Caffrey, J. J.**, See Barker, C. J.
- Cafiso, D. S.**, See Kessel, A.
- Çagatay, P.**, See Süsleyici, B.
- Calcerrada, M. C.**, See Martín, L.
- Callaghan, J.**, See van Vliet, C.
- Callard, R. E.**, See Dixon, G. L. J.; Uronen, H.
- Calligaris, R.**, See Heerklotz, D.
- Calvo, J. C.**
—; From the blackboard to cyberspace: keeping up to date with the changes when teaching biochemistry and molecular biology, A111
- Campana, P. T.**
—; Monteiro, A. C. O.; Pinto, A. P. A.; Moraes, D. L.; Beltramini, L. M.
Refolding of the frutalin: a potentially useful biotechnological tool, A409
- Campbell, P.**, See Bodles, A. M.
- Campbell, S.**
—; Bond, U.
Bioinformatical analysis of histone 3'-end processing in *Saccharomyces cerevisiae*: identification of U7-like RNAs, A41
- Campopiano, D.**, See Mackenzie, P. L.; Tomczyk, N. H.
- Campos, M. N. N.**, See Lasunskiaia, E. B.
- Campos Ponce, M.**
—; Maingon, R. D. C.; Ponce, C.; Ponce, E.
Further investigations on *Leishmania chagasi* parasites causing atypical cutaneous and visceral Leishmaniasis, A477
- Canet-Aviles, R. M.**
—; Turner, A. J.; Hooper, N. M.; Vaughan, P. F. T.
Regulation of soluble amyloid precursor protein (sAPP) α secretion by muscarine in the human neuroblastoma cell line SH-SY5Y, A33
- Cannas, A.**, See Hemphill, A.
- Cannoot, B.**, See Breyne, P.
- Cantatore, J. L.**
—; Murphy, S. M.; Lynch, D. V.
Compartmentation and topology of glucosylceramide synthesis, 748
- Capaldi, A.**, See Gorski, S.
- ; Ferguson, N.; Friel, C.; Gorski, S.; Kleanthous, C.; Radford, S.
Exploring the folding landscape of α helical proteins, A70
- Cappai, R.**, See Hesse, L.
- Carcamo, J. G.**, See Yañez, A. J.
- Carden, M. J.**, See Roobol, A.
- Carey, I.**, See Jones-Heiland, T.
- Caricasole, A.**, See Sala, C. F.
- Carlquist, M.**, See Pike, A. C. W.
- Carlsson, M.**, See Heijbel, A.
- Carmody, M.**
—; Kelliher, M.; O'Neill, C.
Investigating the involvement of the immunophilin FK506-binding protein (FKBP12) in the neurochemical pathology of Alzheimer's disease brain, A38
- Carnaby, S.**, See Wilmer, J. A.
- Carne, S. B.**
—; Heath, S.; Hoyle, C.; Wells, D. J.
Characterisation of murine six5 gene expression, A299
- Carneiro, A. C. D.**, See Benedito, A. B.
- Carpenter, E. P.**, See Shafiq, M.
- Carr, P. D.**, See Dixon, N. E.
- Carrasquillo, E. A.**, See Banerjee, D. K.
- Carrington, M.**, See Nieduszynski, C. A.
- ; Chattopadhyay, A.; Crow, M.; Redpath, M.; Wasunna, C.; Webb, H.
Structure and metabolism of the VSG monolayer, A477
- Carrión, A. M.**
—; Ledo, F.; Link, W. A.; Mellström, B.; Naranjo, J. R.
Crosstalk between the cAMP and Ca²⁺ dependent nuclear response via a direct interaction between DREAM and CRE-binding protein, A273
- Carrondo, M. J. T.**, See Cruz, H. J. S.
- Carson, J. A.**, See Barnes, K.
- Carter, N. D.**, See D'Cruz, L. G.
- Cartwright, H. M.**, See Patel, K.
- Cartwright, J. E.**, See Da Costa, C. R.
- Carvalho, A. P.**, See Gomes, E. R.
- Carvalho, D. D.**
—; Marangoni, S.; Novello, J. C.
Molecular characterization of a cytotoxic snake venom lectin, A442
- Caryl, A. P.**, See Franklin, F. C. H.
- Cascante, M.**, See Comin, B.; deAtauri, P.
- Caselmann, W.**, See Johnston, I.
- Casey, A.**
—; Walsh, G.
Characterization of extracellular phytase from selected fungal sources, A42
Stabilizing effect of the substrate phytic acid on the enzyme phytase in animal feed, A42
- Casjens, S.**
—; The unusual linear plasmids of the Lyme disease spirochete *Borrelia burgdorferi*, A102
- Caspers, P.**, See Marrer, E.
- Caspersen, C.**
—; Treiman, M.
SERCA2b, an endoplasmic reticulum calcium pump isoform, is a stress-inducible protein, A33
- Cass, A. E. G.**, See Eady, N. A. J.; Jesmin; Topoglidis, E.
- Cass, C. E.**, See Appleford, P. J.; Booth, Z. A.; Hadden, D. A.; Hyde, R. J.; Parker, M. D.
- Cassagne, C.**, See Akermoun, M.; Puyaubert, J.; Schreiber, L.
- Castaneda, O.**, See Fallarero, A.
- Castilho, T. M.**, See da Silva, E. R.
- Castillo, E.**, See Martinez, C.
- Caswell, A.M.**, See Shafique, M.
- Caswell, R.**, See Duce, J.; Duce, J. A.
- Catalán, R. E.**, See Martín, L.
- Cataloluk, O.**, See Bozkurt, A. I.
—; The sequence information of the gene coding for salivarin B activity, A246
- Catterall, W. A.**, See Ratcliffe, C. F.
- Caul, E. O.**, See Samarba-Zadeh, A. R.
- Cecchini, G.**, See Rothery, R. A.
- Cederholm-Williams, S. A.**, See Korolchuk, V. I.
- Celik, H. A.**, See Aydın, H. H.
- Celis, H.**
—; Serrano, M.; Escobedo, S.; Romero, I.
Effect of phosphoglyceric acid on the activity of cytoplasmic pyrophosphatases of photosynthetic bacteria, A192
- Cells, J.**
—; Proteomic strategies in cancer, A131
- Centelles, J. J.**, See Comín, B.; deAtauri, P.
- Cepica, A.**
—; Kibenge, F. S. B.; Lyaku, J. R. S.; Qian, B.
Antibody-induced conformational modification of a herpesvirus epitope repertoire *in vivo*, A211
- Cerasoli, E.**
—; Kelly, S. M.; Coggins, J. R.; Price, N. C.
The unfolding of shikimate kinase II from *Erwinia chrysanthemi*, A410
- Čermák, J.**, See Křepela, E.
- Cernila, B.**
—; Cresnar, B.; Breskvar, K.
Expression of hsp70 genes in the fungus *Rhizopus nigricans*, A171
- Cervello, M.**
—; Notarbartolo, M.; Landino, M.; Cusimano, A.; Montalto, G.; D'Alessandro, N.
Down-regulation of wild-type β -catenin expression by interleukin 6 in human hepatocarcinoma HepG2 and leukemia HL60 cells: a possible role in the growth-inhibitory effects of the cytokine?, A296
- Cha, J.**, See Kim, H.
- Cha, J.-Y.**
—; Kim, H. I.; Kim, K. S.; Hur, M.-W.; Ahn, Y. H.
Hepatocyte nuclear factors mediate the tissue-specific expression of human GLUT2 gene, A176
- Chabes, A.**
—; Thelander, L.
Controlled protein degradation regulates ribonucleotide reductase activity in proliferating mammalian cells during the cell cycle, A367
- Chaimovich, H.**, See Borecky, J.
- Chain, B.**, See Dixon, G. L. J.
- Chakravorty, M.**, See Chaturvedi, D.
- Chalar, C.**, See Martinez, C.
- Challiss, R. A. J.**, See Bhogal, R. H.; Burdon, D.; Hornigold, D. C.
- Chalmers, K. A.**, See Cross, D. A. E.
- Chan, E. W. C.**, See Wong, H. T.
- Chan, J. Y. C.**, See Lee, K. F.
- Chanas, S. A.**, See Hayes, J. D.
- Chand, L.**, See Gupta, S.
- Chandraratna, R.**, See Hughes, P.
- Chang, B. M.**, See Bo, N.
- Chang, C. F.**, See Liang, F.
- Chang, H. C.**
—; Hsu, H. K.; Lee, T. H.; Hung, W. C.
Mimosine induces p27Kip1 expression via transcriptional activation, A367
- Chang, J.-H.**, See Chen, C.-H.
- Chang, S.-I.**
—; Youn, M.-R.; Park, M.-H.; So, S.-H.; Ahn, B.-C.; Choi, J.-D.; Joe, Y. A.; Kim, J.-S.; Yoo, W.-K.; Lee, H.-S.; Chung, S.-I.
Expression of recombinant plasminogen kringle 1-3 in *Escherichia coli* and its interaction with angiogenin *in vivo*, A294
- Chapman, J. E.**, See Assender, J. W.
- Chapman, S. C.**
—; Mudher, A. K.; Schubert, T. E. O.; Richardson, J.; Gower, E.; Soden, P.; Rupniak, H. T. R.; Anderton, B. H.; Lovestone, S.
Factors affecting tau phosphorylation influence amyloid precursor protein processing, A36
- Charlier, D.**, See Enoru, J.

- Charlton, W.**, See Baker, A.; Oh, J.; Sparkes, I.
- Charnay, P.**, See Garratt, A. N.
- Charon, C.M.**
—; Dolphin, C. T.
Sequence variation in the human flavin-containing monooxygenase 3 gene (*FMO3*): identification by denaturing-high performance liquid chromatography (DHPLC), A435
- Chatrattanakunchai, S.**, See Fraser, T.
—; Fraser, T.; Stobart, K.
Oil biosynthesis in microsomal membrane preparations from *Mortierella alpina*, 707
- Sesamin inhibits lysophosphatidylcholine acyltransferase in *Mortierella alpina*, 718
- Chatterjee, V. K. K.**, See Love, J. D.
- Chattopadhyay, A.**, See Carrington, M.
- Chaturvedi, D.**
—; Chakravorty, M.
Identification of an unusual restriction-modification system in bacteriophage MB78, A171
- Chaudhuri, M.**
—; Cloning and characterization of a novel serine/threonine protein phosphatase type 5 from *Trypanosoma brucei*, A426
- Chauhan, V. S.**, See Pandey, A. V.
- Chávez, R.**, See Eyzaguirre, J.
- Cheah, L. S.**, See Nirthanan, S.
- Cheah, S.-C.**, See Parveez, G. K. A.
- Chegwidden, W. R.**, See Spencer, I. M.
- Chen, C.-C.**
—; Chou, C.-Y.; Chen, J.-J.
PKCa but not p44/42 MAPK, p38 and JNK is required for ICAM-1 expression mediated by interleukin-1b: involvement of tyrosine kinase, A427
- Chen, C.-H.**
—; Chang, J.-H.; Wang, S.-K.; Sy, W.-D.; Chou, C.-K.; Howng, S.-L.; Hong, Y.-R.
Human ninein, a centrosome associated protein, interacts with glycogen synthase kinase 3 beta, a427
- Chen, C.-P.**, See Aplin, J. D.
- Chen, D.**, See Stallcup, M. R.
- Chen, D. C.**, See Tsai, R.-T.
- Chen, G.**, See Li, Y.-K.
- Chen, G. Q.**, See McKeon, T. A.
- Chen, J.**, See Brereton, H. M.
- Chen, J.-H.**, See Hsu, W.-B.
—; Chiou, C.-S.; Hsu, W.-B.
Serotype conversion of *Shigella flexneri* in a patient with shigellosis, A231
- Chen, J.-J.**, See Chen, C.-C.
- Chen, K.**
—; Chen, X.; Schnell, D. J.
Mechanism of protein import across the chloroplast envelope, 485
- Chen, L.-S.**, See Jeang, C.-L.
- Chen, M. H. C.**, See Weng, C. F.
- Chen, M.-Y.**, See Jeang, C.-L.
- Chen, N. L.**, See Bo, N.; Jun, X.
- Chen, S.**
—; Xu, C.; Lin, X.; Zhang, Q.
Molecular marker-assisted selection to improve the bacterial blight resistance of hybrid rice, A291
- Chen, X.**, See Chen, K.
- Chen, X. S.**
—; Wu, N. H.; Shen, Y. F.
Stat1 and Stat3 differentially regulate the expression of hsp90 α gene, A274
- Chen, Y.**
—; Cloning of a human apoptosis specific protein APG5 gene, A373
- Chen, Y. S.**
—; Yau, T. O.; Tam, P. K. H.; Sham, M. H.
Characterization of an enhancer element for establishing transgenic mouse models for enteric nervous system development, A385
- Chenette, E.**, See Wang, D.
- Cheng, J.**, See Sheridan, J. M.
- Cheng, S. C. S.**, See Wong, H. T.
- Cheng, S. H.**
—; Lam, W.; Fong, W. F.; Fung, K. P.; Wu, R. S. S.
Contrasting patterns of gene expression in benzopyrene treated cells, A435
- Cheng, X. K.**, See Zhang, Y.
- Cherian-Shaw, S. M.**, See Abraham, E. C.
- Chérif, A.**, See Daoud Ben Miled, D.; Smaoui, A.
- Chernitsyna, N. V.**, See Svshnikov, A. A.
- Chernobelskaya, I. A.**
—; Grigoriev, I. S.; Alieva, I. B.; Vorobjev, I. A.
The length distribution and spatial organization of microtubules in cultured Vero cells, A216
- Chernolovskaya, E. L.**, See Bozhenok, L. N.
- Cheung, P. Y.**
—; Xu, L.; Wong, N. S.; Lee, K. S.
Comparative study of cystolic thioredoxin reductase isozymes, A314
- Chevalier, S.**
—; Macdonald, N.; Tonge, R.; Davison, M.; Roberts, R. A.
Proteomic analysis of PPAR α -mediated responses in primary hepatocyte cultures, A259
- Chew, E.C.**, See Yun, J. P.
- Chhabra, S.**, See Luthra, K.
—; Das, N.; Vasisht, S.; Luthra, K.; Narang, R.; Manchanda, S. C.; Srivastava, L. M.; Agarwal, D. P.
Studies on apolipoprotein polymorphisms in a North Indian population, A299
- Chhajlani, V.**, See Doufexis, M.
- Chia, T.**
—; Rawsthorne, S.
Fatty acid breakdown in developing embryos of *Brassica napus* L., 753
- Chia, W.**
—; Asymmetric cell divisions during *Drosophila* CNS development, A139
- Chiang, C. C.**, See Weng, C. F.
- Chiang, H. T.**, See Li, H. F.
- Chino, K.**, See Trotter, J. A.
- Chioato, L.**, See Ward, R. J.
- Chiou, C.-S.**, See Chen, J.-H.
- Chipman, J. K.**, See Morsi, A. S.; Tate, L. A.
- Chir, J.**, See Li, Y.-K.
- Chistov, I.**, See Kuptsova, S.
- Chitnis, C.**
—; Molecular interactions involved in red cell invasion by malaria parasites, A116
- Chitnis, P. R.**, See Schwabe, T. M. E.
- Chitte, R.**
—; Plasmid-associated synthesis of actinokinase, an extracellular thermostable fibrinolytic enzyme, A452
- Chiu, R. Y. K.**
—; Wong, N.
The enzyme activity of a membrane-bound isoform of thioredoxin reductase is inhibited by adenine mononucleotide, A309
- Chock, P. B.**, See Yim, M. B.
- Choi, E.-J.**, See Han, J.-S.
- Choi, J.-D.**, See Chang, S.-I.
- Choi, J. G.**
—; Ko, J. H.; Yoo, O. J.
Reverse transcription with primers immobilized on a slide glass and its suggested application to the preparation of cDNA microarray probes, A228
- Choi, K.-Y.**, See Lee, W.-J.
- Choi, M.-U.**, See Park, H. S.; Roh, T.
- Choi, S.**, See Newton, D.
- Choi, S. L.**, See Kim, S. S.
- Choi, W. S.**
—; Jones, T. H. D.
Detection and partial characterization of a metallothionein-like protein in *Dictyostelium discoideum*, A292
- Chojnacki, T.**, See Skorupińska-Tudek, K.
- Chomey, E. G.**, See Appleford, P. J.
- Chong, N. H. V.**, See Bailey, T. A.
- Chopra, V. L.**, See Vageeshbabu, H. S.
- Choquet, A.**, See Hollande, F.
- Chothia, C.**
—; The evolution of protein repertoires, A107
—; Genome sequences and protein structures, A23
- Chou, C.-K.**, See Chen, C.-H.
- Chou, C.-Y.**, See Chen, C.-C.
- Chou, W. Y.**, See Shyu, W. C.
- Choudhary, A.**, See Vasudha, S.
- Choudhary, J.**, See Gostick, D.
- Choudhry, A.**, See Hughes, P.
- Choudhuri, G.**, See Singh, M. K.
- Chretien, S.**, See Verdier, F.
- Christ, F.**, See Schoettler, S.
- Christie, G.**, See Tipnis, S. R.
- Christie, S.**, See Millar, J. K.; Taylor, M. S.
- Chrzanowska-Lightowlers, Z. M. A.**, See Selwood, S. P.
- Chu, A.**
—; Circumferin, a nuclear envelope protein that interacts with nucleoporins and is sensitive to stress, A443
- Chua, J. K. H.**, See Leung, Y. F.
- Chuang, D. T.**, See Song, J. L.; Wynn, R. M.
- Chuang, J. L.**, See Wynn, R. M.
- Chuang, N.-N.**
—; Abrogating UV-induced apoptosis by downregulating caveolin-s with arsenite, A373
- Chugh, J.**
—; Whitmore, L.; Snook, C. F.; Wallace, B. A.
Bioinformatics: a sequence and structure database for peptaibols, A92
- Chukeatirote, E.**, See O'Sullivan, J. M.
- Chulavatnatol, M.**, See Eksittikul, T.
- Chun, J.-Y.**, See Hwang, I. T.
- Chun, P. W.**
—; A thermodynamic molecular switch in biological systems: ribonuclease S' fragment complementation reactions, A410
- Chun, Y.**, See Kim, S. S.
- Chun, Y. K.**, See Hong, F.
- Chung, B. S.**, See Kang, C. D.
- Chung, S.-I.**, See Chang, S.-I.
- Church, S.**, See Mimura, Y.
- Cierpicki, T.**
—; Grzesiak, A.; Otlewski, J.NMR and ability studies of Ala \rightarrow Val mutant of bovine pancreatic trypsin inhibitor I (BPTI) reveal a significant destabilization of protein molecule, A458
- Ciesla, J. M.**, See Speina, E.
- Ciesla, Z.**, See Koprowski, P.
- Cilliv, G.**, See Sinici, I.
- Çimen, M. Y. B.**, See Öztürk, H. S.

- Cimen, M. Y. B.**, See Durak, I.; Elgun, S.; Gokhun, I. H.; Kacmaz, M.
- Cimen, O. B.**, See Kacmaz, M.
- Ciuffi, M.**, See Failli, P.
- Claeysens, M.**, See Bollengier, F.
- Clark, B. F. C.**, See Barciszewski, J.; Mansilla, F.
- Clark, J. B.**, See Stone, R.
- Clarke, A.**, See Hadden, D. A.
- Clarke, E.**, See Beher, D.
- ; Lewis, H. D.; Beher, D.; Shearman, M. S.
- Direct quantification of amyloid- β peptides A β (40) and A β (42) in biological milieu by a novel homogeneous time-resolved fluorescence (HTRF) assay, A32
- Clarke, I. J.**, See Smith, A. I.
- Clarke, I. N.**, See Samarbaft-Zadeh, A. R.
- Clarke, A. R.**
- ; Action between the sheets: the acquisition of β -structure in a protein-folding reaction, A49
- Clark-Lewis, I.**, See Black, K. M.
- Clarkson, J.**, See Brockwell, D.
- Clauwaert, J.**, See Abgar, S.
- Claxson, A.**, See Lynch, E.
- ; Sitwood, C.; Grootveld, M.; Lynch, E.
- Multicomponent NMR analysis of lipid oxidation products, A32
- Clayette, P.**, See Roy, B.
- Clayton, C.**
- ; Reverse genetic approaches to metabolism, metabolic compartmentation and drug targets in trypanosomes, A112
- Clémence, S.**, See Tokatlidis, K.
- Clemens, M. J.**, See Bommer, U.-A.
- Clemens, S.**, See Kunst, L.
- Clements, L.**, See Holt, I.
- Clerk, A.**, See Cole, S.
- Clerk, A.**, See Harrison, J. G.; Pham, F. H.
- Clerk, A.**, See Valks, D. M.
- Clive, C.**, See Wong, B.-S.
- Clough, J. L.**
- ; Barksby, E.; Hoyle, C. K.; Essenberg, R. C.; Henderson, P. J. F.
- Members of the fucose/glucose/galactose-H⁺ symporter family—their cloning and overexpression in *Escherichia coli*, and subsequent purification and structural analyses, A89
- Coates, A. R. M.**, See Roberts, M. M.
- Coates, D.**, See Appleford, P. J.; Isaac, R. E.; Siviter, R. J.; Stancombe, P. R.
- ; Exploring the *Caenorhabditis elegans* and *Drosophila* genomes to understand neuropeptide and peptidase function, A61
- ; Siviter, R.; Isaac, R. E.
- Exploring the *Caenorhabditis elegans* and *Drosophila melanogaster* genomes to understand neuropeptide and peptidase function, 464
- Coates, G. M. P.**
- ; Smart, O. S.
- Is the active form of α -toxin heptameric?, A388
- Cobbe, N.**
- ; Steffensen, S.; Vass, S.; Coelho, P.; Hassan, B.; Bellen, H.; Sunkel, C.; Heck, M. S.
- Mutations in the *Drosophila SMC4* gene are associated with abnormal mitotic chromosome segregation, A246
- Cochran, D. A. E.**
- ; Jones, G. R.; Doig, A. J.
- Energetic effects of residue substitutions at the N1 position of an α -helical peptide, A87
- Coelho, P.**, See Cobbe, N.
- Coffey, M.**, See Jain, R. K.
- Cogan, T.**, See O'Sullivan, S.
- Coggins, J.**
- ; The molecular architecture of the shikimate pathway enzymes: new insights into mechanisms and drug design, A130
- Coggins, J. R.**, See Cerasoli, E.
- Cohen, J.**, See Noursadeghi, M.
- Cohen, P.**
- ; PDK1, the missing link in insulin signal transduction, A142
- Cohen, R. D.**, See Burns, S. P.
- Cohen, Z.**
- ; Khozin-Goldberg, I.; Adlerstein, D.; Bigogno, C.
- The role of triacylglycerol as a reservoir of polyunsaturated fatty acids for the rapid production of chloroplastic lipids in certain microalgae, 740
- Coker, A. O.**, See Isokpehi, R. D.
- Coker, A. R.**, See Roberts, M. M.
- Cole, S.**
- ; Clerk, A.
- Regulation of p21CIP1 and p27KIP1 in cardiac myocyte apoptosis, A367
- Coleman, R.**
- ; Hepatocyte couplets, A10
- ; Roma, M. G.
- Hepatocyte couplets, 136
- Coleman, S.**, See Schmidt, M.
- Collado, M.**, See Vila, R.
- Collinge, J.**
- ; Molecular biology of prion propagation, A126
- Collingsworth, P.**, See Finley, J. B.
- Collins, J. K.**, See Nally, K.
- Collins, P. B.**, See Betts, V.
- Colon-Rivera, J. L.**, See Leon-Vazquez, R. G.
- Colter, D.**, See Prockop, D. J.
- Comin, B.**
- ; Boren, J.; Moro, C.; Martínez, S.; Lee, W.-N. P.; Boros, L. G.; Centelles, J. J.; Cascante, M.
- New antitumoral drugs based on ribose-phosphate synthesis tested by metabolic control analysis, A220
- Commisso-Cappelli, C.**, See Lewis, P. N.
- Compagnon, V.**, See Pinot, F.
- Condon, S.**, See O'Sullivan, S.
- Confalone, E.**, See Sasso, M. P.
- Connell, J. W.**, See Gibb, G. M.
- Conner, A. C.**
- ; Wheatley, M.; Smith, D. M.; Poyner, D. R.
- The production of a RAMP1-GST fusion protein for studying the CGRP receptor, A265
- Connolly, A.**, See Jones-Heiland, T.
- Connolly, E.**
- ; Donlon, J.
- Investigation of factors that influence the expression of rat hepatic phenylalanine hydroxylase *in vivo*, A25
- Conrad, Nicholas**
- ; a Nrd1-Nab3 complex associated with yeast RNA polymerase II, A442
- Conroy, S.**, See Byrne, P.
- ; Newsholme, P.; Green, I. C.
- Investigation of the effects of human sera from newly diagnosed diabetic patients on cell death, A27
- Constandt, H.**, See Breyne, P.
- Constantinidou, C.**, See Jagannathan, A.
- Contreras, L. M.**, See Regente, M. C.
- Convery, M. A.**, See Hadden, J. M.; Horn, W. T.
- Conway, C.**, See McCulloch, R.
- Cook, A.**, See Baker, K. N.
- Cook, S. J.**
- ; Balmanno, K.; Garner, A.; Millar, T.; Taverner, C.; Todd, D.
- Regulation of cell cycle re-entry by growth, survival and stress signalling pathways, 233
- ; Regulation of cell-cycle re-entry by growth, survival and stress signalling pathways, A3
- Cooke, E.**
- ; Uings, I.; Xia, C.; Woo, P.; Ray, K.
- Structure function analysis of IRAK-1 in IL-1 β and TNF α signal transduction to NF κ B, A491
- Cooke, P. A.**, See Wilmot, C. M.
- Cooper, C. E.**, See Nicol, D. M.; Svistunenko, D. A.
- ; NMR studies of the neonatal brain, A9
- ; Wyatt, J. S.
- NMR spectroscopy and imaging of the neonatal brain, 121
- Cooper, D. W.**, See Freed, K. A.
- Cooper, L. R.**
- ; Corne, D. W.; Crabbe, M. J. C.
- Essential and molecular dynamics of post-translationally modified lens proteins, A87
- Coote, P.**, See Weeks, M.
- Coppola, S.**
- ; Ghibelli, L.
- GSH extrusion and the mitochondrial pathway of apoptotic signalling, 56
- Corbo, L.**, See Prevot, D.
- Corcho, F.**
- ; Molecular model of the rhodopsin-retinal complex using the bundle program: extension to other G-protein-coupled receptors, A448
- Cordero, O. J.**, See Salgado, F. J.
- Corne, D. W.**, See Cooper, L. R.
- Corneanu, G. C.**, See Badea, E.
- Corneanu, M.**, See Badea, E.
- Cornelius, D.**, See Quaye, I. K. E.
- Corona, N.**, See Espinosa, G.
- Correia, A. A. D.**, See Correia, J. H. R. D.
- Correia, A. A. D.**
- ; Correia, J. H. R. D.; Alfaia, C. M. M.; Prates, J. A. M.
- Fibronectins in the plasma from bovine, A361
- Correia, J. H. R. D.**, See Correia, A. A. D.
- ; Alfaia, C. M. M.; Prates, J. A. M.; Correia, A. A. D.
- The evolution of fibronectins in blood plasma from bovine and swine, A361
- Cortassa, S.**, See Aon, M. A.
- Corvol, P.**, See Iturrioz, X.; Reaux, A.; Siviter, R. J.
- Cory, S.**
- ; The Bcl-2 family: arbiters of life and death, A98
- Corzo, G.**, See Hossain, M. A.
- Cosgrove, L. J.**, See Surinya, K. H.
- Cossart, P.**
- ; Molecular interactions and signaling during the infection by the intracellular pathogen, A117
- Costa, A. D. T.**, See Borecky, J.
- Costa, L. G.**, See Li, W. F.
- Costa, M. J.**
- ; Brito, C. P.
- Motivating (marine) biology students for biomolecular sciences: a hands-on approach, A144
- Costa, V.**, See Marques, M.
- Costaglioli, P.**, See Puyaubert, J.
- Costanzo, C.**, See Faggioli, L.
- Costello, E.**, See Creighton, P.

- Costin, G.-E.**
—; Trif, M.; Petrescu, S. M.
pH-sensitive liposomes are efficient carriers for endoplasmic reticulum (ER)-targeted drugs, A458
- Coteau, D.**, See Williamson, G.
- Cotter, T. G.**, See Creagh, E. M.; O'Donovan, C. N.; O'Gorman, D.; Walsh, M.
- Cotton, J.**, See Dive, V.
- Cottrell, G. S.**
—; Hooper, N. M.; Turner, A. J.
The cloning and characterisation of human soluble X-prolyl aminopeptidase (aminopeptidase P), A309
Cloning and characterization of human cystolic aminopeptidase P, A84
- Cottrell, J.**, See Gostick, D.
- Coursol, S.**
—; Pierre, J.-N.; Vidal, J.
Role of the phosphoinositide pathway in the light-dependent C₄ phosphoenolpyruvate carboxylase phosphorylation cascade in *Digitaria sanguinalis* protoplasts, 821
- Covello, P. S.**, See Meesapyodsuk, D.
- Cowburn, R. F.**, See Bonkale, W. L.
—; Receptor-G-protein signalling in Alzheimer's disease, A17
- Cowman, A.**
—; Identification and functional analysis of proteins involved in the invasion of human erythrocytes by the malaria parasite *Plasmodium falciparum*, A116
- Cox, B. S.**, See Parham, S. N.
- Coyle, J. E.**, See Ashcroft, A. E.
- Cozzone, A. J.**, See Doublet, P.
- Crabbe, M. J. C.**, See Cooper, L. R.
- Craik, J. D.**
—; Markovich, D.
Hexose transport in erythrocytes from adult frugivorous bats, A389
- Cranz, S.**
—; Beck, C.; Roth, M.; Jeltsch, A.
Molecular enzymology of the adenine-N⁶ DNA methyltransferase M.EcoRV: site-directed mutagenesis analysis of DNA sequence and target base recognition, A309
- Creagh, E. M.**
—; Cotter, T. G.
Stress proteins and the regulation of apoptosis in tumour cells, A27
- Creighton, P.**
—; Buckley, A.; Costello, E.; Doyle, B.; Donlon, J.
Expression of growth hormone gene in bovine mammary gland, A41
—; Galvin, L.; Donlon, J.
Peptidylglycine mono-oxygenase activity of recombinant bovine growth hormone, A40
- Cresnar, B.**, See Cernila, B.
- Crinella, R.**, See Magnani, M.
- Crissman, H. A.**, See Th'ng, J.
- Cristofolletti, P. T.**
—; Dias, A. B.; Terra, W. R.
Midgut alpha-glucosidases from *Tenebrio molitor*, A321
- Critchley, A.**, See Elbeshbishy, H.
- Crofts, A.**
—; The bc₁ complex: new insights into the function provided by the structure, A101
- Cromsigt, J.**
—; Structural and functional importance of mutations in hepatitis B virus pregenomic RNA studied by NMR, A446
- Crosato, M.**, See Th'ng, J.
- Cross, D. A. E.**
—; Culbert, A. A.; Chalmers, K. A.; Facci, L.; Skaper, S. D.; Reith, A. D.
Glycogen synthase kinase-3 inhibitors protect primary cerebellar granule neurons and sensory neurones from phosphatidylinositol 3-kinase-mediated apoptotic cell death, A427
- Crow, M.**, See Carrington, M.
- Cruchley, A. T.**, See McEllone, M.
- Cruz, H. J. S.**
—; Carrondo, M. J. T.
Modulation of BHK cell metabolism by nutrient manipulation, A291
- Cryer, A.**, See Irvine, S. A.
- Csatary, C. M.**, See Fábíán, Zs.
- Csatary, L. K.**, See Fábíán, Zs.
- Cserzo, M.**, See Moorhouse, M. J.
- Cserzo, M.**, See Tusnády, G. E.
- Cubeddu, L.**
—; Kornfeld, G. D.; Dawes, I. W.; Mabbutt, B. C.
Forming an active spliceosome: characterization of Sm proteins from yeast, A246
- Cuervo, A. M.**
—; Dice, J. F.; Gomes, A. V.; Barnes, J. A.
Lysosomal targeting and degradation of annexins, A349
- Culbert, A.**, See Rowe, D.
- Culbert, A. A.**, See Cross, D. A. E.
- Culligan, K.**
—; Ohlendieck, K.
Characterization of the brain dystrophin-glycoprotein complex, A31
- Cuniasse, P.**, See Dive, V.
- Cunliffe, W. J.**, See Jeremy, A. H. T.
- Cunnigaipur, A.**
—; RGD-containing peptides induce apoptosis in human leukaemia HL-60 cells by caspase-3 activation, A445
- Cunningham, G. A.**
—; Marsden, M. E.; Porteous, D. J.; Haslett, C.; Sallenave, J.-M.
Human elafin (elastase-specific inhibitor) mRNA expression is up-regulated by lipopolysaccharide (LPS) in elafin-transgenic mice, A493
- Curwen, V. A.**
—; The Human Genome Mapping Project (HGMP) resource centre, EMBnet and training, A68
- Cusimano, A.**, See Cervello, M.
- Cutler, P.**, See Gray, J.
- Cvetkovic, I.**, See Vidakovic, M.
- Cvrckova, F.**
—; Bavlínka, B.; Zarsky, V.
Identification and cloning of AtFORMIN1, an *Arabidopsis thaliana* formin homologue, A208
- Cypriani, B.**, See Nemos, C.
- Czarnecki, J.**, See Bugía, M. B.
- Czerlinski, G.**
—; Levin, R.; Ypma, T.
Detecting intermediaries in hemoglobin-oxygen systems, A326
- Dabelić, S.**
—; Breen, K. C.; Flögel, M.
Sialyltransferase activity in liver and spleen of rats exposed to acute and chronic stress, A458
- Dabina, I.**, See Tretjakovs, P.
- Da Costa, C. R.**
—; Johnstone, A. P.; Cartwright, J. E.; Whitley, G. St. J.; Williams, G. T.
The role of endogenous nitric oxide in endothelial cell apoptosis studied using anti-sense technology, A376
- Dadlez, M.**, See Zdanowski, K.
- Daggett, V.**
—; Towards characterization of protein folding/unfolding at atomic resolution, A52
- Daghiani, F.**, See Ostad, S. N.
- Dahlqvist, A.**, See Banaś, A.; Sandager, L.
- D'Alessandro, N.**, See Cervello, M.
- D'Alonzo, R.**
—; Interaction between the transcription factors core binding factor $\alpha 1$ (Cbf $\alpha 1$) and the activator protein-1 (AP-1) subunits c-Jun and c-Fos, A455
- Daly, D. J.**
—; O'Sullivan, C. K.; Guilbault, G. G.
The use of electrochemically grown polymers on metallized electrodes to reduce electrode fouling in biological matrices, 89
- Daman, O. A.**
—; Wallace, J.; Phoenix, D. A.
Hydrophobic moment and hydrophobicity correlation for transmembrane helices, A148
- Dani, P.**, See Siviter, R. J.
- Daniel, H.**, See Theis, S.
- Daniel, S. E.**, See Gillet, S.
- Daniels, R. H.**
—; Wong, E. Y.; Jiang, J.; Philips, V. E.; Hyun, W.; Bittner, M.; Kononen, J.; Kallioniemi, O.-P.; Bruchez, M. P.
Quantum dot semiconductor nanocrystals: a novel luminescent label for multicolor gene and protein analysis, A291
- Danielsson Thorell, H.**
—; Stencko, K.; Nilsson, T.
Cloning and sequencing of the gene encoding chlorite dismutase from the chlorate-metabolizing bacterium *Ideonella dechloratans*, A322
- Dann, E. J.**, See Gilkes, A. F.; Mills, K. I.
- Daood, H. G.**, See Biacs, P. A.
- Daoud Ben Miled, D.**
—; Smaoui, A.; Zarrouk, M.; Chérif, A.
Do extraction procedures affect olive oil quality and stability?, 929
—; Zarrouk, M.; Chérif, A.
Sodium chloride effects on lipase activity in germinating rape seeds, 899
- Darbre, P. D.**, See Higman, J. R.
- Darbre, P. D.**
—; Higman, J. R.; Shaw, L.; Sauer, M. J.
Mammalian cell assay systems for endocrine disrupting chemicals, A435
- Darbre, P. P.**, See Shaw, L. E.
- d'Arcy-Lameta, A.**, See Marcel, G. C. F.; Matos, A. R.
- Dariva, Z. A.**, See Lasunskaja, E. B.
—; Pospelov, V. A.; Pospelova, T. V.
Constitutive activation of NF- κ B/RelA in E1A+cHa-ras-transformed fibroblasts depends on Ras/Raf mitogen-activated protein kinase signaling pathway, A295
- Darjanja, L.**
—; Ichise, N.; Ichikawa, S.; Okamoto, T.; Okuyama, H.; Thompson, G. A., Jr.
Metabolism of glycosylphosphatidylinositol-anchored proteins in *Arabidopsis*, 725
- Darke, S.**, See Khattab, A. D.
- Darley, R. L.**, See Gilkes, A. F.
- Darroch, P.**, See McKie, A.
—; McKie, A.; Pyne, S.

- Lipid phosphate phosphatase isoform expression, partial purification and characterization, A357
- Das, N.**, See Chhabra, S.; Luthra, K.
- Das, S. K.**
—; Tsao, F. H. C.; Mukherjee, S.
Effects of smoking on Ca²⁺-dependent phospholipid binding protein in guinea pig alveolar type II cells, A349
- Das, T.**
—; Thurmond, J. M.; Bobik, E.; Leonard, A. E.; Parker-Barnes, J. M.; Huang, Y.-S.; Mukerji, P.
Polyunsaturated fatty acid-specific elongation enzymes, 658
- Dascombe, M. J.**, See Nahrevanian, H.
- Dasgupta, D.**, See Padmanabhan, U.
- Dasgupta, S.**, See Padmanabhan, U.
- Dashper, S.**, See Slakeski, N.
- da Silva, E. R.**
—; Pioker, F. C.; Castilho, T. M.; Floeter-Winter, L. M.
Genomic organization, transcription characterization and protein structure prediction of *Leishmania amazonensis* arginase, A247
Genomic organization, transcription characterization and protein structure prediction of *Leishmania (L.) amazonensis* arginase, A479
- da Silva, L. M. L.**, See Lasunskaja, E. B.
- da Silva, W. D.**, See Lasunskaja, E. B.
- Daunes, S.**, See D'Silva, C.
- Davenport, B.**, See O'Sullivan, J. M.
- Davenport, E.**, See Kanke, T.
- Davey, G. C.**
—; Powell, R.
A survey of expressed genes from the Atlantic salmon (*Salmo salar*), A171
- David, C.**, See Reaux, A.
- Davidson, B. E.**, See Dixon, M.
- Davidson, B. R.**, See Punshon, G.
- Davidson, C. J.**
—; Tuddenham, E. G. D.; McVey, J. H.
Molecular evolution of haemostasis, A185
- Davies, R. A.**, See Brocklehurst, K. J.
- Davies, R. J. H.**, See Starrs, S.
- Davies, Y.**, See Allsop, D.; Moore, S.
- Davis, A.**, See Guo, C.
- Davis, J.**, See Lindley, C. H.
- Davis, J. B.**, See Gray, J.
- Davis, J. L.**, See Fishbein, W. N.
- Davis, R.**, See Karlyshev, A. V.
- Davison, F. D.**, See D'Cruz, L. G.
- Davison, M.**, See Chevalier, S.
- Davydov, V. V.**
—; Shvets, V. N.
Age-related alteration of myofibril isoenzyme creatine kinase from hearts of rats during stress, A155
- Davydovsky, A. G.**, See Nikandrov, V. N.
- Dawes, I. W.**, See Cubeddu, L.
- Day, A. J.**, See Williamson, G.
- Day, C.**
—; Structural analysis of caspase-recruitment domains (CARDs), A456
- Day, C. P.**, See Benitez, J.
- Day, P.**, See Argent, R.
- Dayanandan, R.**, See Gibb, G. M.
—; Ljungberg, M. C.; Pearce, J.; Anderton, B. H.; Lovestone, S.
Monitoring the intracellular fate of apolipoprotein E: implications for Alzheimer's disease, A37
- D'Cruz, L. G.**
—; Phillimore, H. E.; Elliott, P. M.; Davison, F. D.; McKenna, W. J.; Carter, N. D.; Baboonian, C.
Cytosine methylation confers genetic instability on the cardiac troponin T gene in hypertrophic cardiomyopathy, A154
- De, S.**
—; Jehl, M. M.; Wise, J. G.; Trommer, W. E.
Structure-function relationship in BDH: kinetics and EPR studies, A320
- Deacon, K.**
—; Blank, J. L.
Evidence for p70S6K regulation by the Raf/MEK/ERK pathway downstream of muscarinic acetylcholine receptors and receptor tyrosine kinases, A428
- Deacon, S.**, See Mahmoud, K. M. A. G.
- Deacu, M.**, See Aschie, M.
- de Andrade, T. C. B.**, See Alves, C. R.
- De Arcangelis, V.**, See Negri, R.
- deAtauri, P.**
—; Magret, M. D.; Cascante, M.; Centelles, J. J.
Hyperammonemia caused by deficiency of urea cycle enzymes is explained by Metabolic Control Analysis, A325
- de Becemberg, I. L.**, See Borges, A.
- Dębski, H.**, See Banaś, A.
- Declais, A.-C.**, See Hadden, J. M.
- De Fazio, P.**, See Trubiani, O.
- DeFea, K.**
—; Schmidlin, F.; Déry, O.; Grady, E. F.; Bunnett, N. W.
Mechanisms of initiation and termination of signalling by neuropeptide receptors: a comparison with the proteinase-activated receptors, 419
- Dehm, S.**, See Bonham, K.
- Deivanayagam, S.**
—; Armugam, A.; Wintour, E. M.; Jeyaseelan, K.
Toxicogenomics: effects of toxins on aquaporin genes, A171
- de Kroon, A. I. P. M.**, See Janssen, M. J. F. W.
- de Kruijff, B.**, See Janssen, M. J. F. W.
- de la Canal, L.**, See Regente, M. C.
- de la Fuente, J.**, See García-García, J. C.
- Delcarte, J.**, See Fauconnier, M.-L.
- Delgado, R.**, See Sandy, J.
- Dell, A.**, See Koistinen, H.
- Dellow, W. J.**, See Paton, M. B.
—; Betaine metabolism in health and disease, A155
- Delomenie, C.**, See Mushtaq, A.
- Delorme, V.**, See Kim, D.-J.
- Delseny, M.**, See Maisonneuve, S.
- DeLucas, L.**, See Finley, J. B.
- Demidchik, V. V.**, See Naydun, S. N.
—; Nonspecific permeability changes and H⁺-ATPase inhibition induced in the *Nitella* cell plasmalemma by Cu²⁺, A389
- Deneke, J.**
—; Endoplasmic reticulum, A59
- Deng, Y.**, See Samarba-Zadeh, A. R.
- Déniz, A.**, See Marrero, I.
- Denmukhametova, S. V.**, See Schmatchenko, V. V.
- Dennis, C.**
—; Glykos, N.; Parsons, M.; Phillips, S.
X-ray crystal structure of the hexameric arginine repressor/activator protein (AhrC) from *Bacillus subtilis*, A95
- Dennis, R. P.**
—; MCGown, E.; Su, M.
Measurement of molecular beacons in the SPECTRAMax GEMINI spectrofluorometer, A214
- Denny, P. W.**, See Williamson, D. H.
—; Field, M. C.; Smith, D. F.
DRMs, secretion and lipid architecture in Trypanosomatidae, A477
- Denovan-Wright, E. M.**, See Wright, J. M.
- Denovan-Wright, E. M.; Hamilton, L. C.; Robertson, H. A.**
—; Differential gene expression in the striatum of transgenic Huntington's disease mice, A304
- Denyer, M. C. T.**, See Yeung, C. K.
- de Oliveira, A. H. C.**, See Ward, R. J.
- de Paula, E.**, See Pinto, L. M. A.
- Derekh, U.**, See Weselake, R. J.
- Derjard, B.**, See Cabane, C.
- Derjuga, A.**, See Th'ng, J.
- Déry, O.**, See DeFea, K.
- Desamero, N. V.**, See Aldemita, R. R.
- des Bordes, C.**, See Lea, M. A.
- De-Simone, S. G.**, See Alves, C. R.
- Desirazu, N.R.**
—; Reddy, Y. V.
Targetted DNA distortion by EcoP15I DNA methyltransferase, A309
- Dettmar, P.**, See Howling, G.
- Deutsch, J.**, See Espinosa, G.
- Devery, S.**
—; Qin, W.; Tomkins, P. T.
DNA damage and repair analysis in primary cells and tissue-comparable cell lines, A39
- Devery, S. M.**
—; Tomkins, P. T.
Rapid screening of single nucleotide mutations and clastogenic damage by real time PCR and endonuclease and glycosylase dependent mechanisms, A164
- Devés, R.**, See Suárez, G.
- De Veylder, L.**
—; The plant cell cycle and its relation to plant growth rates and morphogenesis, A129
- Devon, R. S.**, See Millar, J. K.; Taylor, M. S.
- Dias, A. B.**, See Cristofoletti, P. T.
- Dias Correia, A. A.**, See Mestre Prates, J. A.
- Diaz, Z.**
—; Lee, M.
Effect of a shak liver oil dietary supplementation on the plasma, liver and aortic lipids of cholesterol-fed rabbits, A343
- Díaz-Laviada, I.**, See Velasco, M. L.
- Díaz-Mireles, E.**
—; Torres-Márquez, M. E.; Moreno-Sánchez, R.; González de la Vara, L.; Loza-Tavera, H.
The 24RNP from spinach chloroplast is phosphorylated by a CDPK, A431
- Dice, J. F.**, See Cuervo, A. M.
- Di Clero, L.**
—; Toyama, M. H.; Pascholati, S. F.; Novello, J. C.; Marangoni, S.
Bactericidal activity of PLA2 isoform isolated from the South American rattlesnake *Crotalus durissus terrificus*, A291
- Di clero, L.**
—; Pascholati, S.; Novello, J. C.; Marangoni, S.
Bauhinia variegata proteinase inhibitor—physical-chemical properties and biological activities, A416
- Dieryck, W.**, See Puyaubert, J.
- Dietrich, A.**, See Fey, J.
- Diez, J. C.**, See Olmos, G.
- DiGirolamo, C.**, See Prockop, D. J.
- Dillmore, W. S.**, See Trotter, J. A.
- Dils, R. R.**, See Khattab, A. D.
- Di Luccia, A.**, See Rullo, R.
- Di Mauro, E.**, See Negri, R.
- Di Meglio, S.**, See Atorino, L.

- Dimitrakopoulos, J.**, See Kotoula, V.
Dimitriadou, A., See Kotoula, V.
Dimova, D.
 —; Ghochikyan, A.; Braun, F.; Snapyan, M.; Sakanyan, V. ArgR-mediated transcription regulation in hyperthermophilic microorganisms, A242
Dimovski, A. J., See Plaseska-Karanfilska, D.
 —; Stefanovska, A.-M.; Plaseska-Karanfilska, D.; Jasar, D.; Zografski, G.; Panovski, M.; Efremov, G. D. Microsatellite instability of colorectal cancers among Macedonian patients, A220
Dinne, I., See Tretjakovs, P.
Di Primio, R., See Trubiani, O.
Dirican, M., See Tokullugil, A.
Ditrich, O., See Pedraza-Díaz, S.
Dive, C.
 —; Suppression of drug-induced apoptosis by B lymphoma microenvironmental survival signals, A13
Dive, V.
 —; Lucet-Levannier, K.; Georgiadis, D.; Cotton, J.; Vassiliou, S.; Cuniase, P.; Yiotakis, A. Phosphinic peptide inhibitors as tools in the study of the function of zinc metalloproteinases, 455
 —; Phosphinic peptide chemistry for developing zinc metalloproteinase inhibitors: achievements and perspectives, A61
Dixon, A. F. G., See Urbanska, A.
Dixon, G., See Uronen, H.
 —; Murphy, E.; Nolan, J.; Newsholme, P. Mechanisms of serum induced pancreatic beta-cell dysfunction, A274
Dixon, G. L. J.
 —; Newton, P.; Andersen, S. R.; van der Ley, P.; Chain, B.; Klein, N. J.; Callard, R. E. Endotoxin-independent activation of dendritic cells by meningococci, A493
Dixon, J. E., See Ratcliffe, C. F.
Dixon, M.
 —; Howlett, G. J.; Sawyer, W. H.; Davidson, B. E. Functional analyses of the central domain of the regulatory protein TyrR, A176
Dixon, N. E.
 —; Hamdan, S.; Brown, S. E.; Keniry, M. A.; Carr, P. D.; Ollis, D. L.; Otting, G. Studies of the structures of core subunits of *Escherichia coli* DNA polymerase III, A416
Dixon, R. A., See Ray, P.
Djavanbakht, T.
 —; Jolles, B.; Laigle, A. Intracellular stability of antisense oligonucleotides protected by the d(GCGAAGC) hairpin, A201
Dlamini, Z., See Skepu, A.
Dobbins, A., See Gostick, D.
Dobi, A., See Agoston, D. v.
Dobo, J., See Nemeth, A.
Dobson, C.
 —; Protein folding, misfolding and disease, A50
 —; Protein folding and aggregation and its relationship to disease, A137
Dobson, C. M., See Fändrich, M.; Greene, L. H.
Dobson, G.
 —; Leaf lipids of *Ribes nigrum*: a plant containing 16:3, α -18:3, γ -18:3 and 18:4 fatty acids, 583
Dobson, P. R. M., See Pham, T. N. Q.
Dockery, P.
 —; Bermingham, J.; Jenkins, D. Structure-function relations in the human placenta, 202
 —; Structure-function relations in the human placenta, A19
Doering, F., See Theis, S.
Doig, A. J., See Andrew, C. D.; Cochran, D. A. E.; Hughes, E.A72; Morrison, R. G.; Wilson, C. L.
 —; Structure, stability and folding of the α -helix, A52
Doig, S.
 —; Andrews, S. C. Functional elucidation of conserved unidentified open reading frames (cURFs) in *Escherichia coli*, A228
Dolnik, A. V.
 —; Lukjanov, D. V.; Erukashvily, N. I.; Podgornaya, O. I. Visualization of proteins that specifically bind to the repetitive DNA sequences in human spermatozooids, A246
Dolphin, A. C., See Hanlon, M. R.
Dolphin, A. C., See Hanlon, M. R.
Dolphin, C. T., See Charon, C. M.
Domanska-Janik, K., See Zablocka, B.
Domergue, F.
 —; Post-Beittenmiller, D. Biochemical characterization of 3-ketoacyl-acyl carrier protein synthase II from leek epidermis, 610
Domingues, F. S., See Prlic, A.
Donachie, W. D., See Geddes, A.
Donadelli, M., See Faggioli, L.
Donaldson, E.
 —; Nelson, J.; Scott, W.; Gardiner, T. Characterization of the 67 kDa laminin receptor in breast cancer, A24
Dong, L., See Mingcai, L.
Donko, M., See Abram, V.
Donko, M.
 —; Abram, V. A change of total peroxidase activity as a stress indicator in tomato *Lycopersicon esculentum* Mill cv. Arletta leaves, A401
Donlon, J., See Connolly, E.; Creighton, P.; Flanagan, A. F.
Dooley, D. M., See Allardyce, C.; Firbank, S. J.
Doonan, J., See Weingartner, M.
Doran, E., See Halestrap, A. P.
Dormer, R. L., See Harris, C. M.; Stratford, F. L. L.
Dornish, J. M., See Howling, G.
Doronina, V. A.
 —; Murray, N. E. Proteolytic control of restriction by the Type I restriction enzyme *EcoKI*, A177
Dosztányi, Zs.
 —; Torda, A. E. Substitution matrices based on force fields, A146
Doublet, P.
 —; Duclos, B.; Vincent, C.; Grangeasse, C.; Prost, J. F.; Preneta, R.; Vaganay, E.; Riberty, M.; Cozzone, A. J. Involvement of protein phosphorylation at tyrosine in the production of exopolysaccharides in bacteria, A428
Doufexis, M.
 —; Frändberg, P.-A.; Kapas, S.; Chhajlani, V. Cysteine residues are involved in the structure and function of melanocortin 1 receptors, A266
Douglas, K. T., See Fedorova, O. S.; Ishchenko, A. A.
Douglas-Jones, A. G., See Harris, C. M.
Doullis, A., See Rizov, I.
Dove, S. K., See McEwen, R. K.
Doyle, B., See Creighton, P.
Doyle, S., See Ennis, O.
Doyle, V.
 —; O'Brien, M.; Tomkins, P. T. Analysis of gene expression following target cell contact with a material support in a 3-D rotary wall vessel (RWV) bioreactor, A172
Drayson, M., See Hughes, P.
Drbal, K., See Sedo, A.
Dreesen, R., See Breyne, P.
Drickamer, K.
 —; Animal lectins that mediate cell-cell recognition, A133
Driscoll, P. C., See Galbraith, T. P.
Dronnesund, E.A., See Poussu, A. M.
Droppelmann, C. A., See Yañez, A. J.
Drouin, R., See Bachvarov, D.
D'Silva, C.
 —; Daunes, S. The importance of log P on the antiparasitic activity of glutathione derivatives *in vitro*, A477
Du, L.-F., See Li, S.-C.
 —; The conformational changes induced by modification of the Trp241 in the 33 kD extrinsic protein leads to loss of its ability of binding to photosystem II, A401
Duan, J., See Taguchi, T.
Duan, K.-J., See Lin, C.-T.
Duarte, C. B., See Gomes, E. R.
Dubanov, A. V., See Ivanov, A. S.
Dubey, I., See Shcherbakova, A.
Dubey, R. S., See Shah, K.
Duce, J.
 —; Hartog, C.; Elliston, L.; Caswell, R.; Jones, A. L. Transcriptional regulation in Huntington's disease, A304
Duce, J. A.
 —; Caswell, R.; Elliston, L.; Jones, A. L. Characterization of the huntingtin interaction with the nuclear receptor co-repressor (N-CoR), A83
Duclos, B., See Doublet, P.
Dudnik, L. B., See Alessenko, A. V.
Duff, K.
 —; Amyloid and tau mice: phenotype and phenotype modulation, A128
 —; Transgenic mouse models of Alzheimer's disease: phenotype and mechanisms of pathogenesis, A18
Duggleby, R. G., See Pang, S. S.
Dugina, T., See Kuptsova, S.
du Jardin, P., See Fauconnier, M.-L.
Dumitru, E., See Aschie, M.
Duncan, D., See Price, N. C.
Duncanson, A., See Wain, H.
Duncanson, P., See Terry, R. S.
 —; Terry, R. S.; Smith, J. E.; Hide, G. The use of direct PCR from sheep tissue to investigate the ecology of *Toxoplasma* infection, A478
Dunn, A., See Hogg, J. C.
Dunn, A. M., See Ironside, J. E.; Sharpe, R. G.
Dunn, J.
 —; Elias, C.; Hryshko, L.; Lytton, J. Residues involved in the isoform specific ionic regulation of Na⁺/Ca²⁺ exchanger function, A389
Dunn, M., See Yan, J.
Dunn, M. J., See Harry, R. A.; Westbrook, J. A.
Dunne, J., See Svistunenko, D. A.
Dupret, J. M., See Mushtaq, A.

- Durak, I.**, See Elgun, S.; Gokhun, I. H.; Kacmaz, M.; Öztürk, H. S.
- ; Karaayvaz, M.; Cimen, M. Y. B.; Avcý, A.; Ozbek, H.; Buyukkocak, S.; Özturk, H. S.
- Cisplatin induces acute renal failure by impairing the antioxidant system in guinea pigs, A200
- Durham, J.**, See Hughes, P.
- Durrant, J. R.**, See Topoglidis, E.
- Durst, F.**, See Pinot, F.
- Duszyński, J.**, See Makowska, A.
- Duszynski, J.**, See Zablocki, K.
- Dutla, B. M.**, See Selvarajah, S.
- Duvlis, S.**, See Plaseska-Karanfilska, D.
- Dvilansky, A.**, See Lichstenstein, A.
- Dyas, S.**, See Martin, H.
- Dyczkowski, J.**, See Skowronski, K.
- Dyer, J. L.**, See Khan, S. Z.
- ; Michelangeli, F.
- Characterisation of transient kinetics of inositol 1,4,5-trisphosphate-induced Ca^{2+} release from permeabilised cells which express specific inositol 1,4,5-trisphosphate receptor isoforms, A274
- Dziki, A.**, See Smolarz, B.
- Dzisiuk, N. V.**, See Ajtkhozina, N. A.; Balmukhanov, T. S.
- Dziurdzia, I.**, See Kuszczak, D.
- Dzyuba, A. N.**, See Flegontova, V. V.
- Eady, N. A. J.**
- ; Nagy, J. M.; Cass, A. E. G.; Brown, K. A.
- Kinetic characterization of the catalase-peroxidase enzyme from *Mycobacterium tuberculosis*, A326
- East, J. M.**, See Twine, S. M.
- Eastlake, J. L.**, See Gibson, W.
- Eastmond, P. J.**
- ; Graham, I. A.
- The multifunctional protein AtMFP2 is co-ordinately expressed with other genes of fatty acid β -oxidation during seed germination in *Arabidopsis thaliana* (L.) Heynh, 95
- ; Hooks, M.; Graham, I. A.
- The *Arabidopsis* acyl-CoA oxidase gene family, 755
- Easton, R. L.**, See Koistinen, H.
- Eaton, S.**, See New, K. J.
- ; Bursby, T.; Middleton, B.; Pourfarzam, M.; Mills, K.; Johnson, A. W.; Bartlett, K.
- The mitochondrial trifunctional protein: centre of a β -oxidation metabolon?, 177
- ; Trifunctional protein of mitochondrial β -oxidation, A11
- Ebrithimzadeh, M.-E.**
- ; Identification of lymphocyte cells in acute lymphoblastic leukemia based on monoclonal antibody-defined cell surface antigens, A220
- Economou, T.**
- ; ATP-catalysis by the protein translocase machine, A116
- Edlin, D. A. N.**
- ; Kille, P.; Wilkinson, M. D.; Jones, H. D.; Harwood, J. L.
- Morphological and metabolic changes in transgenic wheat with altered glycerol-3-phosphate acyltransferase or acyl-acyl carrier protein (ACP) thioesterase activities, 682
- Edmonds, S. D.**
- ; Ostergaard, H. L.
- Association of the protein tyrosine phosphatase CD45 with the protein tyrosine kinase LCK and the adapter protein LAT, A428
- Edqvist, J.**
- ; Farbos, I.
- Characterization of a *Euphorbia lagascae* epoxide hydrolase gene that is induced early during germination, 855
- Edwards, R. M.**, See Wigglesworth, M. J.
- Efremov, G. D.**, See Dimovski, A. J.; Plaseska-Karanfilska, D.
- Eglen, R. M.**, See Hornigold, D. C.
- Ehrlich, R.**, See Arons, E.; Martinez, C.
- Eibl, R. H.**
- ; From leukocyte trafficking to tumour cell metastasis: I: a new approach for the development of antimetastatic drugs, A350
- Einollahi, N.**
- ; Zarchipour, S.; Keyhani, E.
- Effect of Ni^{++} on kinetic properties of horseradish peroxidase, A310
- Eisenberg, D.**
- ; From genome sequences to protein functions, A120
- Eissa, S.**, See El-Ahmady, O.; Khalifa, A.
- ; Ali, R.; Khalifa, A.
- Deletion of p16 and p15 genes in schistosomiasis-associated bladder cancer (SABC), A221
- Eksittikul, T.**
- ; Limpaseni, T.; Chulavatnatol, M.
- Sucrose uptake in leaves of cassava *Manihot esculenta* crantz, A390
- Ekuban, F. A.**, See Quayle, I. K. E.
- El-Agnaf, O.**, See Allsop, D.; Moore, S.
- El-Agnaf, O. M. A.**, See Sheridan, J. M.
- El-Agnaf, O. M. A.; Sheridan, J. M.; Siligardi, G.; Austen, B. M.**
- ; Conformation and toxicity of the fibrillogenic ABri peptide in familial British dementia, A305
- El-Ahmady, O.**
- ; El-Dardery, Z.; Gamal El-Din, A.; Shafie, M. A.; Eissa, S.; Khalifa, A.
- Expression of epidermal growth factor and epidermal growth factor receptor in bladder cancer, A218
- El-Akhras, A. I.**, See Abdalla, E. M.
- El Alami, W.**, See Roobol, A.
- El-Asmar, M. F.**
- ; Basyouni, A.; Hodhod, S.
- A metalloproteinase having platelet aggregation inhibitory activity from *Cerastes cerastes* venom, A308
- El Ayadi, A.**
- ; Errami, M.
- Effects of VDCC antagonists on monoamines release in the striatum of young and aged rats, A304
- Elazhary, Y.**, See Harpin, S.
- Elbeshbishy, H.**
- ; Critchley, A.; Avis, J. M.
- Cloning and expression of tetrapeptide proteins of anaphase promoting complex (APC), A172
- El-Dardery, Z.**, See El-Ahmady, O.
- El-Fattah, M. M. A.**, See Khafagy, E. Z.
- Elger, C. E.**, See Vielhaber, S.
- El-Gewely, M. R.**, See Xu, H.
- Elgun, S.**
- ; Özturk, H. S.; Cimen, M. Y. B.; Yalcýn, S.; Durak, I.
- Erythrocyte nitric oxide metabolism in patients with chronic renal failure, A310
- Elias, C.**, See Dunn, J.
- El-Kader, A. H. A.**, See Khafagy, E. Z.
- Elkeles, R. S.**, See Landham, P. R.
- Elliott, J.**, See Goulter, A. B.
- Elliott, K. R. F.**, See New, K. J.
- Elliott, P. M.**, See D'Cruz, L. G.
- Ellis, A. J.**, See Roy, A. B.
- Elliston, L.**, See Duce, J.; Duce, J. A.
- Elmendorf, H.**, See Sánchez, L. B.
- Elmqvist, A.**, See Soomets, U.
- Elsässer, H.-P.**, See Göllner, H.
- El-Serafy, T. I.**, See Hassan, F. M.
- Elsharkawy, S.**, See Abdalla, E. M.
- Emsley, J.**
- ; Knight, C. G.; Farndale, R. W.; Barnes, M. J.; Liddington, R. C.
- Structure of the integrin $\alpha 2\beta 1$ inserted domain in complex with a homotrimeric collagen peptide, A86
- Encío, I.**, See Lana, I.
- Enery, E.**
- ; Lyamouri, M.; Froyland, C.; Lambertsson, A.
- Conserved synteny of a tightly linked gene cluster in *D. melanogaster* and *D. virilis*, A247
- Eng, K. H.**
- ; using PBL techniques to teach biochemistry to medical students in a revised traditional curriculum, A134
- Engel, A.**
- ; Progress in biological atomic force microscopy, A132
- Engel, P.**, See Griffin, J.; O'Reilly, L.
- Engel, P. C.**, See Au, S. W. N.; Irwin, J. A.; Lynch, S. V.; McCrohan, O.
- Engel, P. C.**, See Mc Loughlin, N.
- Engel, P. C.**, See O'Reilly, L. P.
- ; The Merville lay seminars: University College Dublin's biochemists meet the public, A2
- Engelberth, J.**
- ; Differential signalling and plant-volatile biosynthesis, 871
- Engelhardt, M.**, See Martens, U. M.
- Englaro, W.**, See Cabane, C.
- Engstler, M.**
- ; Riek, T.; Boshart, M.
- A 'naturally' yellow fluorescent variant surface glycoprotein (VSG) from *Trypanosoma brucei*, A478
- Engström, Y.**, See Miele, R.
- Ennis, O.**
- ; Doyle, S.
- Cloning and expression of human parvovirus B19 NS1 protein, A30
- Enoru, J.**
- ; t, D.; Thia-Toong, T.-L.; Glansdorff, N.; Charlier, D.
- Sulpholobus acidocaldarius* Lrp, a homologue of the eubacterial leucine-responsive regulatory protein, is an archaeal transcriptional regulator that binds to its own control region, A459
- Enukashvily, N. I.**, See Dolnik, A. V.; Goloudina, A. R.
- Ephrussi, A.**
- ; Establishment of *Drosophila* embryonic polarity by RNA localization and translational control, A98
- Erdem, B.**, See Kocabyýyk, S.
- Erduran, I.**
- ; Kocabyiyk, S.
- The effects of external factors on the activities of mutant *Thermoplasma* citrate synthases, A310
- Erensoy, N.**, See Süsleyici, B.
- Erglis, A.**, See Tretjakovs, P.
- Ermolaeva, J. B.**, See Mittenberg, A. G.
- Errami, M.**, See El Ayadi, A.
- Ersfeld, K.**, See Lawson, G.; Wickstead, B.
- ; Gull, K.
- Flagellar targeting of proteins in *Trypanosoma brucei*, A478
- Ershova, N.**, See Nevinsky, G.
- Erusalimsky, J. D.**, See Mathur, A.
- Escamilla, M. J. E.**, See Jaramillo, L. R. D.
- Escobedo, S.**, See Celis, H.
- Esipov, S. E.**, See Zaitseva, L. G.
- Esipova, N. G.**, See Berezovsky, I. N.
- Esparza-Lopez, J.**

- ; Okadome, T.; Miyazono, K.; Lopez-Casillas, F.
Functional characterization of the ligand binding domains of betaglycan, A266
- Espinosa, G.**, See Robainas Barcia, A.
- ; Jager, M.; Borrell, Y.; Garcia, E.; Corona, N.; Robainas, A.; Deutsch, J.
Microsatellites genetic markers for white shrimp (*Penaeus schmitti*), A185
- Essenberg, R. C.**, See Clough, J. L.
- Esser, D.**
—; Kretzschmar, A. K.; Amanuma, H.; Rudolph, R.; Böhm, G.
A new vector for drug delivery: the thermostable bacterial histone TmHU, A214
- Esteves, A.**, See Martinez, C.
- Etebary, M.**, See Azizi, E.
- Eubank, D. W.**
—; Beale, E. G.
Cross talk between two PPAR γ response elements on the same promoter, A175
- Evan, G.**
—; Using animal models to study apoptosis and cancer, A12
- Evangelou, A.**, See Kolettas, E.
- Evans, A. T.**, See Yeung, C. K.
- Evans, D. E.**, See Andreeva, A. V.
- Evans, R. D.**
—; Bennett, M. J.; Hauton, D.
Perfused heart studies to investigate lipid metabolism, 113
—; Perfused heart studies to investigate substrate metabolism, A9
- Evans, S. E.**, See Young, N. M.
- Evarsson, A. A.**, See Wynn, R. M.
- Everall, I. P.**, See Williamson, R.
- Evtseva, I. N.**, See Mittenberg, A. G.
- Evtodienko, A. Y.**, See Smirnova, E. V.
- Eyada, M. K.**, See Abdalla, E. M.
- Eyzaguirre, J.**
—; Chávez, R.; Almarza, C.; Peirano, A.; Sandoval, P.
Endoxylanase A from *Penicillium purpurogenum* is a family 10 glycanase: sequencing and characterization of its gene, A179
- Fábíán, Zs.**
—; Töröcsik, B.; Kiss, K.; Tigyí, J.; Freeman, A.; Csatory, L. K.; Csatory, C. M.; Liszka, V.; Szeberényi, J.
Virus induced apoptosis in PC12 rat pheochromocytoma cells, A374
- Faça, V. M.**, See Ward, R. J.
- Facci, L.**, See Cross, D. A. E.
- Fadilah, H. H.**, See Parveez, G. K. A.
- Faehnrich, K.**
—; O'Sullivan, C. K.; Guilbault, G. G.
An optical immunosensor system based on the electrogenerated chemiluminescence of ruthenium(II)-tris-(bipyridyl) (Ru(bpy) $_3^{2+}$), A45
- Faggioli, L.**, See Sasso, M. P.
- ; Costanzo, C.; Donadelli, M.; Furia, A.; Palmieri, M.
Jun N-terminal kinase and c-Jun are involved in the control of IL-6 gene expression by IL-1 and TNF α , A241
- Failli, P.**
—; Franchi-Micheli, S.; Mazzetti, L.; Ciuffi, M.; Zilletti, L.
Inhibition of cyclooxygenase reveals a lipoxygenase-dependent contraction in isolated rat aortic strips, A326
- Fairweather, N.**, See Sangiambut, S.
- Falcoff, N.**, See Caballero, F.
- Falk, A.**, See Weerasena, S. J.
- Fallarero, A.**
—; Loikkanen, J.; Castaneda, O.; Vidal, A.; Mannisto, P.
Neuroprotective effects of *Halimeda incrassata* and *Bryothamnium triquetrum* aqueous extracts on *in vitro* models of oxidative stress, A344
- Fan, D. S. P.**, See Leung, Y. F.
- Fando, J. L.**, See Muñoz, F. M.
- Fändrich, M.**
—; Dobson, C. M.
Amyloid-type fibrillation of the all alpha protein myoglobin, A408
- Fanning, L. J.**, See Mullan, B. M.
- Faragher, R. G. A.**
—; Cell senescence and human aging: where's the link?, A2, 221
- Farbos, I.**, See Edqvist, J.
- Farhud, D. D.**, See Bagheri, A.
- Farina, B.**, See Atorino, L.
- Farkas, T.**, See Várkonyi, Z.
- Farndale, R. W.**, See Emsley, J.; Onley, D. J.
- Farquhar, M. J.**, See Bates, R. L.
- ; Soomet, U.; Brown, C.; Martin, A.; Bates, R. L.; Langel, Ü.; Howl, J.
Independent activation of 5-hydroxytryptamine secretion and phospholipase D: a study with chimeric mastoparan-containing secretagogues in RBL-2H3 cells, A205
- Farthing, M. J. G.**, See Bajaj-Elliott, M.
- Farthing, P. M.**, See Hagi-Pavli, E.
- Fassio, A.**, See Benham, A. M.
- Fast, B.**
—; Blundell, P.; Vogt, A.; Barry, J. D.; Boshart, M.
Diverse functions of aconitase during cyclical development of *Trypanosoma brucei*, A476
- Fastbom, J.**, See Bonkale, W. L.
- Fastermann, D.**
—; Bolwien, C.; Hehn, D.; Schlesinger, R.; Heberle, J.
Time-resolved vibrational spectroscopy of the halorhodopsin photocycle, A188
- Fatemi, M.**, See Hermann, A.
- Fatland, B.**
—; Anderson, M.; Nikolau, B. J.; Wurtele, E. S.
Molecular biology of cytosolic acetyl-CoA generation, 593
- Fattouch, S.**, See Marzouki, N.
- Fauconnier, M.-L.**
—; Delcarte, J.; Hoyaux, P.; du Jardin, P.; Marlier, M.
Potato tubers exhibit both homolytic and heterolytic hydroperoxide fatty acid-cleaving activities, 853
- Faulkner, A.**, See Gow, I. F.
- Fawcett, T.**, See Hayman, M. W.; Honeyman, G.; O'Hara, P.; Slabas, A. R.
- Fawzy, H.**, See Khalil, F. K.
- Fearon, D.**
—; From innate immunity to regulation of B cell differentiation in the germinal centre, A487
- Fearon, P.**
—; Reynolds, N. J.
Cyclophilin A: intracellular localization in human keratocytes, A350
- Fedo, C. M.**, See Bailey, J. M.
- Fedorov, O. V.**, See Polosina, Y. Y.
- Fedorova, O.**, See Koval, V.
- Fedorova, O. S.**
—; Koval, V. V.; Ishchenko, A. A.; Douglas, K. T.; Nevinsky, G. A.
Non-specific interaction of Fpg protein from *Escherichia coli* with DNA: affinity and dynamics study, A164
- Fedoryak, D.**, See Shcherbakova, A.
- Fedoryak, O.**, See Shcherbakova, A.
- Felcher, J.**, See Taylor, V.
- Fell, D. A.**, See Brightman, F. A.; Poolman, M. G.
- Feltl, T.**, See Novotna, Z.
- Feniouk, B.**
—; ATP-synthase of *Rhodobacter capsulatus*: investigating the coupling mechanism, A448
- Fennelly, C.**, See O'Connor, R.
- Fenton, B.**
—; Mendez, F.; Arreguin, B.; Garcia, E.; Arreguin, R.
Purification of skin lectins in a Mexican lizard, A335
- Ferguson, M.**
—; Structure and biosynthesis of trypanosomatid surface molecules, A474
- Ferguson, M. A. J.**, See Mehler, A.; Roper, J. R.
- Ferguson, N.**, See Capaldi, A.
- Ferguson-Miller, S.**
—; The ins and outs of electrons and protons in cytochrome c oxidase, A100
- Ferguson-Smith, A. C.**, See Westbury, J.
- Ferhan, S.**, See Yýldýrým, E.
- Fernholz, E.**, See Nemetz, C.; Zais, K.
- Ferreira, C.**, See Genta, F. A.; Marana, S. R.
- Ferreira, C. V.**, See Granjeiro, P. A.
—; Aoyama, H.
Role of *Glycine max* lectin in the regulation of mature soybean seeds acid phosphatase, A459
- Ferreira, L. H.**, See Tolezano, J. E.
- Ferreira, S.**, See Ramirez-Silva, L.
- Ferrer, A.**
—; Wells, K. E.; Wells, D. J.
Immune responses to dystrophin: implications for gene therapy of DMD, A299
- Fersht, A. R.**
—; Designing new enzymes, A53
- Feussner, I.**, See Hornung, E.; Weichert, H.
- Fey, J.**
—; Tomita, K.; Dietrich, A.; Small, I.; Marechal-Drouard, L.; Weil, J. H.
Editing of plant mitochondrial tRNAs, A407
- Field, M. C.**, See Denny, P. W.; Morgan, G. W.
- Figueiredo, J. F.**, See Belline, P.
- Figueiredo, L. J. O.**, See Alves, C. R.
- Figueiredo, L. J. O.**, See Gomes, L. P.
- Fijalkowska, I. J.**, See Banach, M.; Gawel, D.; Maliszewska-Tkaczyk, M.
- Fik, E.**
—; Wolun-Cholewa, M.; Kistowska, M.; Gozdzička-Jozefiak, A.; Warchol, J.
Induction of apoptosis in tumor cells by lectin from *Chelidonium majus* L. (CML), A374
- Fikus, M. U.**, See Koprowski, P.
- Filek, M.**, See Marcińska, I.
—; Borzecka-Prokop, B.; Biesaga-Kościełniak, J.; Marcińska, I.
Interaction of zearalenone and inositol in artificial cellular membranes: I: influence of zearalenone on inositol recrystallization process in aqueous solution, A338
- Filimonov, V. V.**, See Polosina, Y. Y.
- Filimonov, V. V.**, See Zamyatkin, D. F.
- Filimonova, M. N.**, See Bogomolnaya, L. M.
- Filipski, J.**, See Fiszer-Kierzkowska, A.
- Filosa, A.**
—; H $_2$ O $_2$ -induced cytochrome c damage: an apoptotic trigger?, A449

- Findlay, J. B. C.**, See Barkagianni, E.; Stambouli, E.; Wigglesworth, M. J.
- Fink, M.**
—; Vergès, P.; Andrianjara, C.; Allen, J.
Mutagenesis analysis of IP₄ binding sites in the PH domain of Bruton's tyrosine kinase, A428
- Finkel, T.**
—; Signal transduction by oxygen radicals, A138
- Finley, J. B.**
—; Collingsworth, P.; Reboul, J.; Baglio, P.; Vidal, M.; Lin, X.; Moore, T.; DeLucas, L.; Luo, M.
Structural genomics for the *C. elegans* genome, A228
- Fiocco, D.**, See Miele, R.
- Firbank, S. J.**
—; Rogers, M. S.; Wilmot, C. M.; Dooley, D. M.; McPherson, M. J.; Knowles, P. F.; Phillips, S. E. V.
Crystal structure of the precursor of galactose oxidase, A77
- Fischer, J. A.**, See Leuthäuser, K.
- Fish, B. C.**, See Twine, S. M.
- Fishbein, W. N.**
—; Davis, J. I.; Merezhinskaya, N.; Foellmer, J. W.; Hubbs, A. E.; Mena, H.
Myo-adenylate deaminase deficiency (mADD): a catalogue of etiologies, A300
- Fisher, A. J.**, See MacRae, I. J.
- Fisher, R. A.**, See Wynn, S. L.
- Fiszer-Kierzkowska, A.**
—; Krol, J.; Filipski, J.
Chromatin organisation in yeast artificial chromosome (YAC) carrying human DNA, A247
- Fitchett, C. J.**
—; Howl, J.; Martin, A.
Lysophosphatidic acid (LPA) and sphingosine 1-phosphate (S1P) stimulate mitogenesis in rat-1 fibroblasts, but LPA does not stimulate mitogenesis in endothelial cells, A357
- Fitzgerald, K.**
—; Motherway, M.; Frobert, Y.; McCaffrey, M.
Endosomal prion protein (PrP) trafficking, A35
- Fitzsimmons, S.**, See Parkinson, E. K.
- Flachs, P.**, See Brauner, P.
- Flanagan, A. F.**
—; Donlon, J.; Palmer, R.; Kane, M.
Bioanalytical detection of azaspiracid, a newly discovered phycotoxin, A46
- Flanagan, J.**
—; Solving complex structures in the 21st century, A132
- Flaskos, J.**, See Sachana, M.
- Flatt, P.**, See Shine, A.
- Flaus, A.**, See Whitehouse, I.
- Flegontov, V. P.**, See Flegontova, V. V.
- Flegontova, V. V.**
—; Gaidash, I. S.; Kasimirko, N. K.; Flegontov, V. P.; Shanko, V. M.; Saphonov, Yu. P.; Dzyuba, A. N.
Cellular immunity in patients with multiple sclerosis, A344
- Fleischer, S.**, See Sharma, M. R.
- Fleming, J.**, See Ghose, A.
- Fletcher, S.**, See Horsnell, W. G. C.
- Fletcher, T. M.**, See Hager, G. L.
- Flinn, E. M.**, See Wallberg, A. E.
- Flint, D. G.**, See Booth, V. K.
—; Smart, O. S.; Kumita, J. R.; Woolley, G. A.
Design and simulation of a short peptide whose helix content can be photo-regulated by means of an azobenzene-based cross-linker, A146
- Floeter-Winter, L. M.**, See da Silva, E. R.; Stempluk, V. A.; Tolezano, J. E.
- Floettmann, J. E.**, See Paraoan, L.
- Flögel, M.**, See Dabelić, S.
- Florian, S.**, See Marinovic, M.
- Florian, S.**
—; Wingler, K.; Schmehl, K.; Brigelius-Flohe, R.; Jacobasch, G.
Changes in distribution and intracellular localization of the gastrointestinal glutathione peroxidase in human colorectal cancer tissue A221
- Flynn, J.**
—; McBean, G. J.
Kinetic and pharmacological analysis of L-[³⁵S]cystine transport into rat brain synaptosomes, A38
- Focke, M.**, See Ohlrogge, J.
- Fodor, B.**, See Takacs, M.
- Foellmer, J. W.**, See Fishbein, W. N.
- Foglia, T. A.**, See Abigor, R. D.; Nuñez, A.; Solaiman, D. K. Y.
- Fomishina, R. M.**, See Mykhaylendko, N. F.
- Fong, W. F.**, See Cheng, S. H.
- Fontecave, M.**
—; Class III ribonucleotide reductase: occurrence, structure and mechanism, A123
- Foot, S.**, See Poetter, K.
- Forbes, B. E.**, See Lucic, M. R.
- Forcella, M.**, See Pugliese, A.
- Ford, J.**, See Sheridan, J. M.
- Ford, J. R.**, See Hammarton, T. C.
- Ford, R. J.**, See Naula, C.
- Ford, R. L.**, See Lake, B. B.
- Formenti, E.**, See Sala, C. F.
- Forster, M.**, See Fowler, S.
- Forsyth, K.**, See Wilmer, J. A.
- Forsyth, N.**, See Parkinson, E. K.
- Foster, G. A.**, See Price, I. K.
- Foster, K.**, See McMahon, J. M.
- Foster, M. R.**
—; Hood, C.; Priest, R. C.; McDowell, W.; Malhotra, R.
Complement activation in inflammatory diseases, A491
- Fothergill-Gilmore, L. A.**
—; *Leishmania* pyruvate kinase: the crystal structure reveals the structural basis of its unique regulatory properties, A12
- ; Rigden, D. J.; Michels, P. A. M.; Phillips, S. E. V.
Leishmania pyruvate kinase: the crystal structure reveals the structural basis of its unique regulatory properties, 186
- Fotheringham, M. W.**
—; Ginger, M. L.; Barry, J. D.
Regulation of metacyclic VSG gene expression in *Trypanosoma brucei*, A479
- Fournier, P. A.**, See Popovski, S.
- Fournie-Zaluski, M.-C.**, See Reaux, A.
- Fowler, S.**
—; Forster, M.; Bolgiano, B.
Pertussis toxin 'activation' and NAD-binding: molecular characterization by modelling and fluorescence, A77
- Fox, B. A.**
—; Bzik, D. J.
Genetic analysis of de novo pyrimidine synthesis in *Toxoplasma gondii*: construction of pyrimidine auxotroph mutants in parasitic protozoa, A479
- Fox, S. R.**
—; Rawsthorne, S.; Hills, M. J.
Role of acyl-CoAs and acyl-CoA-binding protein in regulation of carbon supply for fatty acid biosynthesis, 672
- Fraaije, M. W.**, See van den Heuvel, R. H. H.
- Fragkiadakis, G. A.**
—; Vakalounakis, D. J.
Analysis of isozyme patterns in *Fusarium oxysporum* f. sp. *cucumerinum* and f. sp. *radicis-cucumerinum*, A363
- França, M.**, See Matos, A. R.
- Franchi-Micheli, S.**, See Failli, P.
- Francis, D.**, See Baldwin, A.
- Francis, G. L.**, See Surinya, K. H.
- Francis, S.**, See Pullen, T. J.
—; Pullen, T.; Bastin, P.; Gull, K.
Genetic and biochemical dissection of a complex flagellar structure in trypanosomes, A216
- Frändberg, P.-A.**, See Doufexis, M.
- Frank, J.**, See Agrawal, R. K.
—; The dynamics of translation studied by cryo-electron microscopy, A109
- Franklin, F. C. H.**, See Wheeler, M. J.
—; Caryl, A. P.; Armstrong, S. J.; Jones, G. H.
Characterisation of *ASY*, a meiotic mutant of *Arabidopsis*, A209
- Franklin-Tong, V. E.**, See Wheeler, M. J.
- Fraser, P. E.**
—; Presenilin function: connections to Alzheimer's disease and signal transduction, A16
- Fraser, T.**, See Chatrattanakunchai, S.; Othman, A.
—; Stobart, K.
Partial purification and phosaffinity labelling of sunflower acyl-CoA: lysophosphatidylcholine acyltransferase, 715
- ; Waters, A.; Chatrattanakunchai, S.; Stobart, K.
Does triacylglycerol biosynthesis require diacylglycerol acyltransferase (*DGAT*)?, 698
- Frecklington, D.**, See Lawrenson, I.
- Freed, K. A.**
—; Moses, E. K.; Cooper, D. W.; Brennecke, S. P.
Trinucleotide repeat expansion mutation and pre-eclampsia, A300
- Freeman, A.**, See Fábíán, Zs.
- Freitas, A. R. O.**
—; Martins, V. R.; Brentani, R. R.
Signaling mediated by PrPc interaction with laminin and the 66 kDa ligand protein, A347
- Frenkel, J.**, See Waterham, H. R.
- Fridman, V.**
—; Wollenberger, U.; Bogdanovskaya, V.; Lisdat, F.; Ruzgas, T.; Lindgren, A.; Gorton, L.; Scheller, F. W.
Electrochemical investigation of cellobiose oxidation by cellobiose dehydrogenase in the presence of cytochrome *c* as mediator, 63
- Friedlein, A.**, See Wyss, A.
- Friedman, J.**
—; Leptin and the neural circuit regulating body weight, A104
- Friel, C.**, See Capaldi, A.
- Friesen, W.**, See Katavic, V.
- Frobert, Y.**, See Fitzgerald, K.
- Fromm, H.**, See Arazi, T.
—; Cyclic nucleotide- and calcium/calmodulin-regulated channels in plants: targets for manipulating heavy-metal tolerance, and possible physiological roles, A56
- Froyland, C.**, See Enerly, E.
- Frybarger, J. R.**, See Panuganti, S. D.
- Fu, M.**, See Liu, D.
- Fu, R.-H.**, See Lin, C.-L.
- Fu, X.**, See Koul, S.
- Fu, Y.-f.**, See Li, S.-q.
- Fuchs, D.**, See Messahel, S.

- Fuellen, G.**
—; Biocomputing teaching via Internet — the need for an electronic bioinformatics classroom, A67
- Fuerst, D. O.**
—; Wiesner, S.; Auerbach, D.; Himmel, M.; Kempa, S.; Hayeß, K.; Pacholsky, D.; Schroeder, R.; van der Ven, P. F. M.
The interaction of filamin-C with myotilin: a novel link in the limb girdle muscular dystrophy pathway, A300
- Fujiki, Y.**
—; Peroxisome biogenesis and human peroxisomal disorders, A117
- Fujimoto, K., See Tomomura, A.**
- Fujimoto, Z., See Suvd, D.**
—; Kuno, A.; Kaneko, S.; Kusakabe, I.; Mixuno, H.
Structural comparison of the ricin-type lectin in the plant toxin ricin and xylanase, A417
- Fujimoto-Sakata, S., See Tamaki, N.**
- Fujisawa, K., See Okumoto, M.**
- Fujishiro, K., See Motojima, K.**
- Fujiwara, K., See Okamura-Ikeda, K.**
- Fujiwara, K.**
—; Takeuchi, S.; Okamura-Ikeda, K.; Motokawa, Y.
Purification and cDNA cloning of lipoate-activating enzyme from bovine liver, A326
- Fujiwara, T., See Sugase, K.**
- Fukami, Y., See Sato, K.-I.; Tokmakov, A. A.**
- Fukuda, H., See Iritani, N.**
- Fukul, Y., See Motojima, K.**
- Fukunaga, K., See Takada, T.**
- Fukushige, H., See Hildebrand, D. F.**
- Fukuyama, K., See Nakagawa, N.**
- Fuller, B. J., See Punshon, G.**
- Funahashi, J.**
—; Takano, K.; Yamagata, Y.; Nakasako, M.; Yutani, K.
Role of surface residues in conformational stability of human lysozyme, A410
- Funakoshi, M., See Sonoda, Y.**
- Fung, K. P., See Cheng, S. H.**
- Furia, A., See Faggioli, L.; Sasso, M. P.**
- Furlong, C. E., See Li, W. F.**
- Furmanowa, M., See Skorupińska-Tudek, K.**
- Furness, P. N., See Jethwa, V. K.**
- Furukawa, A., See Furukawa, K.**
- Furukawa, K.**
—; Furukawa, A.; Shirai, H.; Nakamura, H.; Azuma, T.
CDR-H3 conformation determining the maturation pathway of an antibody, A255
- Furukawa, Y., See Torimitsu, K.**
- Furuno, T., See Utsumi, K.**
- Furuno, T.**
—; Hirashima, N.; Nishio, M.; Nakanishi, M.
Nuclear translocation of NF- κ B with GFP in PC12 cells, A274
- Furuse, M., See Hasegawa, S.**
- Furuya, H., See Kuroki, Y.**
- Furuya, N., See Hasegawa, S.**
- Futai, M., See Nakamura, N.; Sambongi, Y.**
- Gabal, A. A. A.**
—; Abdel-Aziz, a.
Trotogenic and ontogenic alternations in newborn rats maintained on drinking water collected from polluted and improved regions, A534
- Gacesa, P., See Whittaker, M.**
- Gage, P. W., See Khoury, R.**
- Gaidash, I. S., See Flegontova, V. V.**
- Gaitanaki, C. J., See Aggeli, I.-C. S.**
- Gajewska, B.**
—; Kamińska, J.; Jesionowska, A.; Martin, N. C.; Hopper, A. K.; Zoladek, T.
Indifical WW domains of Rsp5p differently affect fluid phase endocytosis and internalization of uracil permease, A350
- Gakh, O.**
—; Adamec, J.; Obsil, T.; Kalousek, F.; Spizek, J.; Amler, E.; Janata, J.
Biochemical and biophysical study of the yeast mitochondrial processing peptidase, A350
- Gal, P., See Nemeth, A.**
- Galbraith, T. P.**
—; Harris, R.; Driscoll, P. C.; Wallace, B. A.
Solution NMR studies of anti-amoebin I, and ion-channel-forming polypeptide, A87
- Galembek, E., See Yokaichiya, D. K.**
- Galkin, A.**
—; Determination of H⁺/2e⁻ stoichiometry in NADH: quinone reductase reactions catalysed by mitochondrial Complex I, A450
- Gallagher, M. P., See Hadden, D. A.; Patching, S. G.; Xie, H.**
- Gallet, X., See Soomets, U.**
- Gallo, G., See Panfoli, I.**
- Galperin, E., See Rotem-Yehudar, R.**
- Galperin, E. I., See Alessenko, A. V.**
- Galvin, L., See Creighton, P.**
- Gal'vita, A., See Nevinsky, G.**
- Gamal El-Din, A., See El-Ahmady, O.**
- Gambetti, P., See Wong, B.-S.**
- Gami, M., See Stancombe, P. R.**
- Gandhi, N. N.**
—; Mukherjee, K. D.
Papaya (*Carica papaya*) lipase with some distinct acyl and alkyl specificities as compared with microbial lipases, 977
- Gandilo, C., See Lewis, P. N.**
- Gao, F., See Sharp, P. M.**
- Gao, R.**
—; Kini, R. M.; Gopalakrishnakone, P.
Isolation and characterization of a prothrombin activator, mikarin from *Micropechis ikaheka* venom, A311
- Garab, G., See Várkonyi, Z.**
- Garbay, B., See Puyaubert, J.**
- Garber, N. C.**
—; Katcoff, D. J.; Gilboa-Garber, N.
Identification and characterization of *Pseudomonas aeruginosa* PA-IIL lectin gene and protein compared with PA-IL, A180
- Garcés, R., See Martínez-Force, E.**
- García, E., See Espinosa, G.; Fenton, B.**
- García, L., See Rueda, A.**
- García-Díaz, M. T., See Martínez-Rivas, J. M.**
- García-García, J. C.**
—; González, I. L.; González, D. M.; Izquierdo, G. B.; de la Fuente, J.
Sequence variations in the *Boophilus microplus* Bm86 locus and implications for immunoprotection in cattle vaccinated with this antigen, A201
- García Machado, E., See Robainas Barcia, A.**
- Gardiner, T., See Donaldson, E.**
- Garg, N., See Vasudha, S.**
- Garmanchouk, L., See Lisovskiy, I.**
- Garner, A., See Cook, S. J.**
- Garnier, P. C.**
—; Gibbs, R. V.; Rider, C. C.
The binding of the Th1-stimulatory cytokine IL-12 to heparin and heparan sulphate, A492
- Garratt, A. N., See Green, L. J.**
- Garratt, A. N., See Green, L. J.**
—; Voiculescu, O.; Topilko, P.; Charnay, P.; Birchmeier, C.
A dual role of *erbB2* in myelination and in expansion of the Schwann cell precursor pool, A386
- Garza-Ramos, G., See Cabrera, N.**
- Gasarov, R. A., See Iskenderova, S. G.**
- Gasumov, K. G.**
—; Shichijo, C.; Hashimoto, T.
The responses of cNMP phosphodiesterases on the action of phytochrome absorbed lights, A275
- Gatti, D. L., See Bhattacharjee, H.**
- Gatti, S.**
—; Bartfai, T.; Alberati, D.
Uncoupling protein 2 expression in hypothalamus of rodents during fever and in different metabolic conditions, A156
- Gauze, L. N., See Mittenberg, A. G.**
- Gawdi, G., See Misra, U. K.**
- Gawel, D.**
—; Jonczyk, P.; Fijalkowska, I. J.; Shapper, R. M.
The role of the τ subunit in the fidelity of replication of leading and lagging DNA strands in *Escherichia coli*, A164
- Gazarian, K. G.**
—; Ananian-Gazarian, T. G.; Selisko, B.; Herion, P.
Identification and structural characterization of a conformational epitope of noxiustoxin from scorpion *Centruroides noxius* Hoffmann by phage display peptide selection with monoclonal antibody, A255
- Gazzinelli, R.**
—; Pro-inflammatory activity of protozoan derived GPI-anchors and its potential role in the genesis of myocarditis induced by *Trypanosoma cruzi*, A111
- Geddes, A.**
—; Donachie, W. D.
Antisense regulation of cell division in *E. coli*, A367
- Gellerich, F. N.**
—; Function of mitochondrial outer membrane as a diffusion barrier in health and disease, A11
- Gellerich, F. N.**
—; Trumbeckaite, S.; Opalka, J. R.; Seppet, E.; Rasmussen, H. N.; Neuhoff, C.; Zierz, S.
Function of the mitochondrial outer membrane as a diffusion barrier in health and diseases, 164
- Genever, P. G., See Maxfield, S. J.**
- Genta, F. A.**
—; Terra, W. R.; Ferreira, C.
Beta-glucanases from *Periplaneta americana* midgut, A310
- Gentilini, L., See Magnani, M.**
- Georgiadis, D., See Dive, V.**
- Georgiou, E., See Kotoula, V.**
- Gerardy-Schahn, R., See Baker, K. N.**
- Gerez, E., See Caballero, F.**
- Ghazi-Saeidi, K., See Rahbar, M.**
- Ghibelli, L., See Coppola, S.**
—; Cytochrome *c* release as a response to redox imbalance in apoptotic and viable cells, A12
- Ghindilis, A.**
—; Direct electron transfer catalysed by enzymes: application for biosensor development, 84
- Ghindilis, A. L.**
—; Direct electron transfer catalysed by enzymes: application for biosensor development, A22

- Ghirlando, R.**, See Mimura, Y.
Ghochikyan, A., See Dimova, D.
Ghogomu, S. M., See Titanji, V. P. K.
Ghorbal, M. H., See Jemal, F.
Ghose, A.
 —; Fleming, J.; Harrison, P. R.
 Molecular events mediating the induction of apoptosis by chemopreventive selenium compounds, A221
Giacchini, R., See Pugliese, A.
Gianello, R., See Libinaki, R.
Gianello, R., See Ogru, E.
Gianello, R.
 —; Libinaki, R.; Heffernan, M.; Ogru, E.; Ng, F.
 An ELISA for the detection of an anti-obesity compound after oral administration in rats, A192
Giannoulla, K.
 —; Haralampidis, K.; Poghosyan, Z.; Murphy, D. J.; Hatzopoulos, P.
 Differential expression of diacylglycerol acyltransferase (*DGAT*) genes in olive tissues, 695
Gibb, G. M.
 —; Connell, J. W.; Dayanandan, R.; Lovestone, S.; Hutton, M.; Anderton, B. H.
 Effects of exonic frontotemporal dementia and parkinsonism linked to chromosome 17 (FTDP-17) missense mutations on the phosphorylation of tau proteins, A37
Gibbs, R. V., See Garnier, P. C.
Giblin, E. M., See Katavic, V.
Gibney, B. R., See Ugulava, N. B.
Gibson, T. J.
 —; Evidence in favour of ancient octaploidy in the vertebrate genome, A23
 —; Spring, J.
 Evidence in favour of ancient octaploidy in the vertebrate genome, 259
Gibson, W., See Asbeck, K.
 —; Bingle, L. E. H.; Eastlake, J. L.; Bailey, M.
 Analysis of genetic exchange in *Trypanosoma brucei* using Green Fluorescent Protein under control of the Tet repressor, A479
Gibson, W. C., See Backhouse, T. E.
Gierasch, L. M.
 —; Interdomain communication in Hsp70 chaperones, A51
Giffin, W., See Soubeyrand, S.
Gigot, D., See Enoru, J.
Gilardi, G., See Topoglidis, E.
Gilboa-Garber, N., See Garber, N. C.; Lerrer, B.; Melamed, N.
Gilchrist, A., See Thomas, T. O.
Gilkes, A. F.
 —; Walsh, V.; Darley, R. L.; Dann, E. J.; Burnett, A. K.; Mills, K. I.
 The effect of histone deacetylase inhibitors on the growth, viability and differentiation of 32C cells over-expressing AML1, or expressing the fusion AML1-ETO or AML1-MDS genes, A221
Gill, N., See Griffiths, G.
Gillespie, J. P., See Halestrap, A. P.
Gillespie, L. L., See Post, J. N.
Gillet, S.
 —; Revesz, T.; Daniel, S. E.; Anderton, B. H.; Hanger, D. P.
 α -Synuclein in Alzheimer's disease and multiple system atrophy, A33
Gilpin, M. L., See Sangiambut, S.
Gilroy, J., See Slabas, A. R.
Gilroy, J. S., See Hayman, M. W.
Gincel, D.
 —; Ziad, H.; Shoshan-Barmatz, V.
 Calcium binding and translocation by VDAC: a possible regulatory mechanism in mitochondrial function, A390
Gineitis, A., See Kulyté, A.; Treigyte, G.
Ginger, M. L., See Fotheringham, M. W.
Girgin, K., See Yýldýrym, E.
Girin, S. V.
 —; Lipid peroxidation and the state of the antioxidant system in an induced mutation process caused by an acute action of nickel sulphate, A459
Girke, T., See Ohlogge, J.
Gisselbrecht, S., See Verdier, F.
Glansdorff, N., See Enoru, J.
Glaser, S., See Martens, U. M.
Glatt, H. R.
 —; An overview of bioactivation of chemical carcinogens, A6, 1
Gleeson, P. A., See van Vliet, C.
Gloddek, K., See Schwabe, T. M. E.
Glykos, N., See Dennis, C.
Gobran, F., See Abdalla, E. M.
Goda, Y., See Okunuki, H.; Sakushima, J.
Goddard, P. A., See Howling, G.
Godovikova, T. S., See Bozhenok, L. N.
Goedert, M.
 —; Tau mutations in frontotemporal dementia and parkinsonism linked to chromosome 17 (FTDP-17) and their relevance for Alzheimer's disease, A15
Goffe, R. A.
 —; Rosler, R. J.; Mersberg, M. A.; Stanaway, I. B.; Senn, J. A.; Brusig, S. A.; Berninger, R. W.
 Overproduction of recombinant protein from transfected plasmid DNA in CHO-k1 mammalian cells, A172
Goffeau, A.
 —; Regulation of multiple drug-resistance in *S. cerevisiae*, A122
Gogichaeva, N. V., See Berezov, T. T.
Gokhun, I. H.
 —; Yasa, M. H.; Bektas, A.; Kacmaz, M.; Cimen, M. Y. B.; Ozturk, H. S.; Durak, I.
 Mucosal antioxidant defence is not impaired in ulcerative colitis, A311
Goliaei, B., See Andi, B.; Minucheher, Z.
 —; Soheili, Z.
 Transforming growth factor beta2 upregulates GM-CSF gene in human bladder carcinoma cell line HTB 5637, A341
Golkhoo, Sh., See Keyhani, E.
Golkhoo, Sh.
 —; Keyhani, E.
 Cytochromes biosynthesis in the presence of Ni²⁺, Cd²⁺ and Zn²⁺ in *Paracoccus denitrificans* (P.d.), A435
Göllner, H.
 —; Bouwman, P.; Elsässer, H.-P.; Grosveld, F.; Philipsen, S.; Suske, G.
 Identification of Sp3 target genes *in vivo*, A286
Golostenova, L. M., See Petrovich, Y. A.
Goloudina, A. R.
 —; Voronin, A. P.; Kukalev, A. S.; Erukashvily, N. I.
 Sequence-specific nuclear matrix proteins share rod-domain with intermediate filaments, A248
Gombos, Z., See Várkonyi, Z.
Gomes, A. V., See Cuervo, A. M.
 —; Barnes, J. A.; Potter, J. D.
 Role of the C-terminal iNOS calmodulin-binding region in Ca²⁺-dependent interactions with calmodulin, A275
Gomes, E. R.
 —; Carvalho, A. P.; Duarte, C. B.
 Nitric oxide inhibits cell death induced by photodynamic therapy through a caspase S-nitrosylation-independent mechanism, A374
Gomes, L. P.
 —; Figueiredo, L. J. O.; Antunes, O. A. C.
 Molecular modelling design strategy on novel drugs for HIV-1 Tat/TAR complex, A436
Gomes, S. L., See Simão, R. C. G.
Gomez Casati, D. F., See Aon, M. A.
Gómez-Fabre, P., See Pérez-Gómez, C.
Gómez-Puyou, A., See Cabrera, N.; Ramírez-Silva, L.
Goncharova, S. N., See Sanina, N. M.
 —; Sanina, N. M.; Kostetsky, E. Y.
 Role of lipids in molecular thermoadaptation mechanisms of seagrass *Zostera marina*, 887
Gong, H. Y., See Weng, C. F.
Gonos, E. S., See Kolettas, E.
Gonsalvez, I. S.
 —; Littlechild, J. A.; Isupov, M.; Taylor, S. J.; Brown, R.
 Characterization and preliminary crystallographic studies of a novel γ -lactamase enzyme used in the synthesis of an anti-HIV drug, A417
Gonsalvez, I. S.
 —; Littlechild, J. A.; Taylor, S.; Brown, R.
 Characterization of a novel γ -lactamase enzyme used in the synthesis of an anti-HIV drug, A75
Gontier, E.
 —; Boussouel, N.; Terrasse, C.; Jannoyer, M.; Ménard, M.; Thomasset, B.; Bourgaud, F.
Litchi chinensis fatty acid diversity: occurrence of the unusual cyclopropanoic fatty acids, 578
Gontijo, J. A., See Belline, P.
González, D. M., See García-García, J. C.
González, F.
 —; ATP-dependent phosphoenolpyruvate carboxykinases: homology modelling and active site analysis, A442
Gonzalez, F. J., See Orphanides, G.
González, I. L., See García-García, J. C.
González de Alfonso, R., See Borges, A.
González de la Vara, L., See Díaz-Mireles, E.
Gooch, J. T., See Love, J. D.
Goodall, M., See Mimura, Y.
Gooday, G. W., See Kuszczak, D.
Goode, D., See Lee, A.
Goode, N. T., See Horsnell, W. G. C.
Gooley, P. R., See van Vliet, C.
Gopalakrishnakone, P., See Balaji, R. A.
Gopalakrishnakone, P., See Gao, R.
Gopalakrishnakone, P., See Nirthanan, S.
Gopalakrishnakone, P., See Scrivivasan, K. N.
Gorbulonova, E. Yu., See Ovchinnikova, T. V.
Gordon, J., See Hussain, T. B.
Gore, M., See Ruzhenikov, S. N.
Gore, M. G., See Twine, S. M.
Gorina, A. S., See Kolesnichenko, L. S.
Görlich, D.
 —; Transport in and out of the cell nucleus, A97
Gorrell, M. D., See Abbott, C. A.
Gorski, S., See Capaldi, A.
 —; Capaldi, A.; Kleanthous, C.; Moore, G.; Radford, S.
 Partially folded states in helical protein folding, A69
Gorton, L., See Fridman, V.

- Gossen, K. K.**, See Katavic, V.
- Gostick, D.**
—; Brown, J.; Dobbins, A.; Kapp, E.; O'Malley, R.; Langridge, J.; Howes, K.; Bordoli, R.; Slyker, T.; Randell, J.; Jacobson, A.; Larsen, E.; Walker, D.
Automated protein identification using MALDI mass spectrometry, A260
- ; Langridge, J.; Bordoli, R.; Hoyes, J.; Hughes, C.; Kapp, E.; Choudhary, J.; Ward, M.; Blackstock, W.
Rapid automated protein identification using direct flow control capillary chromatography coupled to ESI-MS/MS, A260
- ; Langridge, J.; Rachubinski, R.; Wozniak, R.; Smith, J.; Cottrell, J.; Hoyes, J.; Kapp, E.; Skilling, J.; Bordoli, R.
Q-ToF ESI-MS/MS and automated software interpretation for *de novo* sequencing of tryptic peptides from gel separated proteins A260
- Goto, T.**, See Nagamune, H.; Ohkura, K.
- Goto, Y.**, See Hiroto-Nakaoka, N.
- Gotoh, S.**, See Karasaki, Y.
- Gotthardt Olsen, J.**, See von Wettstein-Knowles, P.
- Gottstein, B.**, See Hemphill, A.
- Goulding, C.**
—; Structural and functional studies of proteins with predicted 'novel' folds in *Pyrobaculum aerophilum*, A446
- Goulter, A. B.**
—; Elliott, J.; Botham, K. M.
The effects of hylomycin remnants on basal release of nitric oxide in porcine coronary artery, A357
- Gouveia, A. M.**, See Reguenga, C.
- Gover, S.**, See Au, S. W. N.
- Gow, I. F.**
—; Faulkner, A.
Changes in serum ionized magnesium in lactating sheep during an intravenous glucose-tolerance test, A26
- Gower, D.**, See Hickling, T. P.
- Gower, E.**, See Chapman, S. C.
- Gower, N. J. D.**
—; Temple, G.; Walker, D.; Baylis, H. A.
The dissection of the upstream regulatory elements of the inositol 1,4,5-trisphosphate receptor gene in *Caenorhabditis elegans*, A177
- Gowhar, H.**, See Jeltsch, A.
- Gowher, H.**
—; Leismann, O.; Jeltsch, A.
DNA of *Drosophila melanogaster* contains 5-methylcytosine, A248
- Goya, T.**, See Kuroki, Y.
- Goździcka-Jozefiak, A.**, See Fik, E.; Obrepalska, A.
- Gozes, I.**, See Brennehan, D. E.
- Grabinska, K.**
—; Berges, T.; Karst, F.; Palamarczyk, G.
Mechanisms involved in proteolytic degradation of yeast farnesyl diphosphate synthase, A327
- Grabowska, D.**
—; Lewandowska, I.; Plochocka, D.; Jablonska-Skwieciniska, E.; Burzynska, B.
The novel mutation of glucose-6-phosphate dehydrogenase gene in subjects with chronic hemolytic anemia and expression of this gene in the yeast *S. cerevisiae*, A300
- Grady, E. F.**, See DeFea, K.
- Grafton, G.**, See Hussain, T. B.
- Graham, I. A.**, See Lange, P. R.; Larson, T. R.; Eastmond, P. J.
—; The acyl-CoA oxidase gene family in *Arabidopsis thaliana*: establishing gene function through reverse genetics, A8
- Grahl Johansson, M.**, See Stenklo, K.
- Grajdeanu, I.**, See Aschie, I.
- Grandmougin-Ferjani, A.**, See Muchembled, J.
- Grangeasse, C.**, See Doublet, P.
- Granjeiro, J. M.**, See Granjeiro, P. A.
- Granjeiro, P. A.**
—; Ferreira, C. V.; Granjeiro, J. M.; Aoyama, H.
Effect of amino acid modifying reagents on the activity of castor bean (*Ricinus communis*) seed acid phosphatase, A327
- Grant, M. M.**
—; Briggs, D. E.; Fitchett, C. S.; Deery, M.; Stimson, E.
Partial purification of α -L-arabinosidase from germinated wheat (*Triticum aestivum*), A402
- Grant, P.**, See Veeranna, P. S.
- Grantham, J.**, See Roobol, A.
- Grasser, K. D.**, See Krohn, N. M.
- Gray, J.**
—; Haran, M.; Schneider, K.; Cutler, P.; Davis, J. B.
Cathepsin B is a target for the protection of neuronal cells by caspase inhibitor ac-YVAD-cmk, A28
- Gray, J. E.**, See McAinsh, M. R.
- Grdovic, N.**
—; Poznanovic, G.
Biochemical characterization of a nuclear matrix associated nuclease, A311
- Greagg, M. A.**, See Bommer, U.-A.
- Grechkin, A. N.**, See Tarchevsky, I. A.
- ; Mukhtarova, L. S.; Hamberg, M.
Lipoxygenase pathway in tulip: biosynthesis of ketols, 851
- Green, A.**, See Liu, Q.; Singh, S.
- Green, A. G.**, See Stoutjesdijk, P. A.
- Green, I. C.**, See Conroy, S.
- Green, K. C.**, See Whitaker, B. D.
- Green, L. J.**, See Ward, R. J.
—; Garratt, A. N.; Humphries, M. J.
Activation state-dependent integrin signalling, A266
- Green, M. T.**
—; Richmond, S. A.; Morris, D.; Ball, P.
A nylon membrane optimised for automated macroarraying applications, A363
- Green, S. M.**, See Samarbaaf-Zadeh, A. R.
- Greene, L. H.**
—; Hon, W. C.; Dobson, C. M.; Redfield, C.
Merging of the classes: structural relationship between two distinct protein classes, A417
- Gregersen, N.**, See O'Reilly, L.; O'Reilly, L. P.
- Gregg, K.**, See Shi, J.
- Gregory, R. B.**, See Wang, Y.-J.
- Grennan, K.**, See Killard, A. J.
- Griep, M. A.**
—; Bhattacharyya, S.; Johnson, S. K.
E. coli DnaB helicase stimulates *E. coli* primase activity and alters its initiation specificity, A248
- Griffin, J.**
—; Engel, P.
Examination of coenzyme specificity in clostridial glutamate dehydrogenase by site-directed mutagenesis, A73
- Griffith, J. K.**, See Ward, A.
- Griffiths, D. E.**
—; ATP synthase: intrinsic cations of subunit-c and F_0 , A188
- Griffiths, G.**
—; Leverentz, M.; Silkowski, H.; Gill, N.; Sánchez-Serrano, J. J.
Lipid hydroperoxide in plants, 837
- Griffiths, M.**, See Appleford, P. J.; Hyde, R. J.
- Grigoriev, I. S.**, See Chernobelskaya, I. A.
- ; Vorobjev, I. A.
Organization of microtubules in lamellae of polarized cells, A217
- Grimalt, J. O.**, See Turk, M.
- Grimm, S.**, See Albayrak, T.; Schoenfeld, N.
- Grindley, P. B.**
—; Omoruyi, F. O.; Asemota, H. N.; Morrison, E. Y.
Effect of extracts from yam (*Dioscorea cayenensis*) and dasheen (*Colocassia esculenta*) on the kidney of streptozotocin-induced diabetic rats, A156
- Grineva, G. M.**, See Baranova, E. N.
- Grinkevich, V. A.**, See Zaitseva, L. G.
- Grishanova, A. Y. U.**, See Zueva, T. V.
- Grishanova, A. Yu.**, See Sidorava, Y. A.
- Grishko, V. N.**
—; Activity of glutathione reductase in some agricultural plants under HF influence, A402
- Gromadsky, K. B.**, See Lapin, M. V.
- Gromak, N.**
—; Smith, C. W. J.
Role of CUG-binding proteins in the regulation of alternative splicing of α -tropomyosin and α -actinin genes, A177
- Grootveld, M.**, See Claxson, A.; Lynch, E.; Mills, B.; Silwood, C.
—; Silwood, C.; Lynch, E.
Proton $^1\text{H-NMR}$ investigations of the complexation of salivary Ca^{2+} by endogenous and exogenous citrate, A45
- Grosclaude, J.**, See Jean, L.
- Grosveld, F.**, See Göllner, H.
- Grover, S. K.**, See Pasha, M. A. Q.
- Grundy, C.**, See Haye, H. R.
- Grzesiak, A.**, See Cierpicki, T.
—; Krowarsch, D.; Buczek, O.; Dadlez, M.; Krokoszynska, I.; Otlewski, J.
Inhibition of six proteinases of the human blood-coagulation system by mutants of bovine pancreatic trypsin inhibitor, A459
- Grzesiuk, E.**, See Nowosielska, A.
- Gschwendt, M.**, See Baehr, C.
- Gu, Y.**
—; Publicover, S.
Metabotropic glutamate receptors expressed in bone cells, A390
- Gudmundsson, H. M.**, See Irwin, J. A.
- Guerrero-Hernandez, A.**, See Rueda, A.
- Guescini, M.**, See Polidori, E.
- Guilbault, G. G.**, See Daly, D. J.; Faehrich, K.; Kreuzer, M. P.; O'Connell, P. J.; Vaughan, R. D.
—; Biosensors: 38 years and counting, A20
- Guimei, Z.**, See Mingcai, L.
- Guinovart, J.**
—; Glycogen biosynthesis: a new vision, A99
- Gujer, R.**, See Leuthäuser, K.
- Guliev, N. M.**
—; Allahverdiev, T. I.; Bayramov, Sh. M.; Aliyev, J. A.
Phosphoglycerate kinase from the C_4 plant *Amaranthus cruentus* L., A311
- Gull, K.**, See Bastin, P.; Ersfeld, K.; Francis, S.; Lawson, G.; Moreira-

- Leite, F. F.; Pullen, T. J.; Vaughan, S.; Wickstead, B.
 —; Genomics and post-genomics in parasitology: genome babble or a real opportunity?, 541
- Gummeson, P.-O.**, See Banaś, A.
Gunaratne, R. S., See Brown, D. R.
Gunde-Cimerman, N., See Petrovic, U.; Turk, M.
Günther, C., See Schmidt, U.
Günther, G., See Johnston, I.
Guo, C.
 —; Yu, S.; Davis, A.; Ahmed, K.
 Protective role of protein kinase CK2 against drug-induced apoptosis in prostate cancer cells, A371
- Gupta, D.**, See Baquer, N. Z.
Gupta, S., See Bala, M.
Gupta, S.
 —; Verma, A. K.; Chand, L.
 Cloning and characterization of complementary DNA for vicilin(7S), a major seed storage protein, in pigeonpea *Cajanus cajan* (L.) Var.UPAS-120, A402
- Gur, D.**
 —; Segal, D.; Shalitin, Y.
 The interaction of butyrylcholinesterase with anthrolycholine, A204
- Gurling, H. M. D.**, See Vincent, J. B.
Gurrell, I. K., See Brocklehurst, K. J.
Guschin, D., See Wolffe, A. P.
Guschina, I. A.
 —; Harwood, J. L.
 Effect of copper and lead on lipid metabolism in bryophytes and lichens, 910
- Gustafsson, C.**, See Heijbel, A.
Gustafsson, J.-A., See Pike, A. C. W.; Wallberg, A. E.
Gustavsson, M., See Sandager, L.
Güther, M. L. S., See Roper, J. R.
Guthrie, D. J. S., See Bodles, A. M.
Gutteridge, J. M. C., See Suzuki, K.
Guy, G. R.
 —; Lim, J.; Wong, E.; Ong, S. H.; Low, B. C.
 Sprouty proteins are targeted to membrane ruffles upon growth factor receptor tyrosine kinase activation: identification of a novel translocation domain, A275
- Guzhova, I.**
 —; Komarova, Y.; Nelioudova, A.; Margulis, B.
 Hsp70 binds NF- κ B and procaspases during apoptosis, A380
- Gwee, M. C. E.**, See Nirthanan, S.
Gwee, M. C. E., See Scrivinasan, K. N.
Gyan, B. A., See Quaye, I. K. E.
- Ha, H.**, See Jung, Y.
Ha, J., See Hong, F.; Kang, I.; Kim, S. S.
Ha, J.
 —; Kim, J. M.; Kim, S. S.; Kang, I. S.
 A new role of 5' AMP-activated protein kinase in Ras/Raf/Erk pathway, A429
- Haas, M. J.**, See Abigor, R. D.
Haché, R. J. G., See Soubeyrand, S.
Hackl, E.
 —; Kornilova, S.; Blagoi, Y.
 DNA structural transitions under divalent metal ions action in aqueous solution, A460
- Hadden, D. A.**
 —; Clarke, A.; Litherland, G. J.; Henderson, P. J. F.; Cass, C. E.; Young, J. D.; Baldwin, S. A.; Gallagher, M. P.
 Overexpression of the bacterial transporter NupC—a model for mammalian active nucleoside transporters, A93
- Hadden, J. M.**
 —; Convery, M. A.; Declais, A.-C.; Lilley, D. M. J.; Phillips, S. E. V.
 Crystal structure of bacteriophage T7 endonuclease I: a Holliday junction resolving enzyme, A96
- Hadden, T. J.**
 —; Kadura, I.; Miller, R. E.
 Glutamine synthetase gene transcription is controlled by CAAT/enhancer binding protein (C/EBP), A235
- Hafiz, F. B.**, See Brown, D. R.
Haga, S., See Ohno, H.
Hagen, T., See Li, W. F.
Hager, G. L.
 —; Dynamics of steroid receptor interaction with chromosomal targets, A64
 —; Fletcher, T. M.; Xiao, N.; Baumann, C. T.; Müller, W. G.; McNally, J. G.
 Dynamics of gene targeting and chromatin remodelling by nuclear receptors, 405
- Hagiawra, T.**, See Nakashima, K.
Hagio, M., See Sato, N.
Hagi-Pavli, E., See Kapas, S.; McEllone, M.
 —; Farthing, P. M.; Kapas, S.
 Induction of E-selectin by vasoactive peptides on keratinocytes *in vitro*, A231
- Hagiwara, K.**
 —; Osaza, H.; Horikawa, S.
 Regulation and immunohistochemical analysis of heme oxygenase-1 in rat kidney with myoglobinuric acute renal failure, A156
- Hagiwara, S.**, See Okuyama, H.
Hahn, D. H., See Kim, H. Y.
Hahn, K.-S., See Lee, D. G.
Hahn, B. H., See Sharp, P. M.
Hahn, M., See Wilhelm, J.
 —; Overexpression of Bcl-2 in PC-12 cells activates extracellular-signal-regulated kinase 1 (ERK1) and ERK2 via a protein kinase C (PKC)-dependent mechanism, A456
- Haigh, T.**, See Aplin, J. D.
Hainer, V., See Mikulová, R.
Hajdu, J., See Wilmot, C. M.
Häkl, M., See Jänne, O. A.
Halestrap, A. P.
 —; Doran, E.; Gillespie, J. P.; O'Toole, A.
 Mitochondria and cell death, 170
 —; Mitochondria and cell death, A11
- Hall, B. S.**, See Morgan, G. W.
Hall, E. A. H.
 —; A peptide library on a surface plasmon resonance (SPR) chip as an analytical tool at the heart of the matter, A21
- Hall, S. K.**, See Assender, J. W.; Messahel, S.
Hallberg, E., See Pooga, M.
Hällbrink, M., See Pooga, M.; Soomets, U.
Hallett, F. R., See Booth, V. K.
Hallett, M. B., See Hiscox, S.
Halliday, M. I., See Prendergast, D. P.
Hama-Inaba, H., See Nakajima, T.
Hamberg, M., See Grechkin, A. N.
Hamdan, S., See Dixon, N. E.
Hamid, N. A., See Younis, H. M.
Hamid, Q. A., See Tewari, M.
Hamilton, L. C., See Denovan-Wright, E. M.
Hamm, H. E., See Thomas, T. O.
Hammarström, A. K. M., See Khoury, R.
Hammarton, T. C.
 —; van Hellemond, J. J.; Ford, J. R.; Mottram, J. C.
 Analysis of *Trypanosoma brucei* cyclins and cyclin-dependent kinases, A480
- Hampel, G.**, See Hosseini, R.
Hampson, F. C., See Howling, G.
Hampton, I. P., See Haye, H. R.
Han, H. M., See Jung, K. K.
Han, J.-S., See Kim, J.-H.; Shin, I.
 —; Choi, E.-J.; Yon, C.-S.; Kim, Y.-S.; Shin, I.
 D609-sensitive tyrosine phosphorylation is involved in Fas-induced phospholipase D activation, A357
- Han, S.-J.**, See Lee, W.-J.
Han, Y. H., See Kang, B. Y.
Haneskog, L.
 —; Heijbel, A.; Johansson, H. J.
 Rapid purification of GST-fusion proteins from large sample volumes, A261
- Hanger, D. P.**, See Gillet, S.
Hankamer, B. D., See Morris, E. P.
Hanke, P., See Johnston, I.
Hanks, S. K., See Sonoda, Y.
Hanlon, M. R.
 —; Berrow, N. S.; Butcher, A.; Dolphin, A. C.; Wallace, B. A.
 Experimental and modelling studies of the voltage-dependent calcium channel β subunit, A417
- Hanlon, M. R.**
 —; Berrow, N. S.; Dolphin, A. C.; Wallace, B. A.
 Secondary structure of a guanylate kinase (GK)-like domain of the voltage-dependent calcium channel β subunit: modelling and experimental studies, A43
- Hänninen, P. E.**, See Soini, E.
Hanozet, G. M., See Pugliese, A.
Hanseitova, A. K., See Ajtkhozina, N. A.
Hanson, P. J., See Bersimbaev, R. I.
Hara, E., See Huot, T. J. G.
Hara, N., See Shingu, T.; Terashima, M.
 —; Terashima, M.; Shimoyama, M.; Tsuchiya, M.
 Mouse T-cell antigen Rt6.1 has thiol-dependent NAD glycohydrolase activity, A312
- Hara, T.**, See Taguchi, T.
Haralampidis, K., See Giannoulia, K.
Haran, M., See Gray, J.
Harashima, S., See Koyanagi, T.
Hardingham, G. E.
 —; Bading, H.
 Calcium signal processing in neuronal nuclei controls synaptically-evoked gene expression, A275
- Hardy, J.**
 —; Genetic dissection of the dementias, A15
- Hargreaves, A. J.**, See Sachana, M.
Harison, M. A., See Wigglesworth, M. J.
Harland, M. L., See Breerton, H. M.
Haro, D., See Baldán, A.
Harpin, S.
 —; St-Onge, S.; Mbikay, M.; Elazhary, Y.; Talbot, B. G.
 Neuroendocrine-specific promoter in a DNA vaccine drives antigen expression in both skin and muscle cells and elicits both humoral and cellular immune responses mice, A258
- Harries, J. C.**
 —; Sheppard, H. M.; Heery, D. M.
 SRC1 and the pointed domain of Ets-2 share a binding site on CREB binding protein, A286
- Harrington, L. S.**
 —; Walker, D. S.; Jackson, T. R.; Baylis, H. A.
C. elegans centaurins: putative receptors for PtdIns 3,4,5- p_3 , A358

- Harriott, P.**, See Bodles, A. M.
- Harris, C. M.**
—; Douglas-Jones, A.G.; Jasani, B.; Becq, F.; McPherson, M. A.; Dormer, R. L.
Localization of CFTR in airway gland cells in nasal polyp tissues, A351
- Harris, F.**, See Brandenburg, K.; Wallace, J.
- Harris, R.**, See Galbraith, T. P.
- Harris, T.**
—; High throughput X-ray crystallography for drug discovery, A131
- Harrison, D.**
—; Apoptosis as a target for chemopreventive agents, A6
- Harrison, J. G.**
—; Clerk, A.
Phosphorylation of histone (H3) in cardiac myocytes subjected to hyperosmotic shock, A429
- Harrison, M. J.**
—; Phosphate transport in roots and arbuscular mycorrhizas, A56
- Harrison, P. R.**, See Ghose, A.
- Harry, R.**, See Yan, J.
- Harry, R. A.**
—; Yan, J. X.; Spibey, C.; Dunn, M. J.
Study of SYPRO fluorescent staining on two dimensional gel electrophoresis, A151
- Hart, C. A.**, See Zhu, H.
- Hart, P. E.**, See Muddle, J. R.
- Härtel, H.**
—; Benning, C.
Can digalactosyldiacylglycerol substitute for phosphatidylcholine upon phosphate deprivation in leaves and roots of *Arabidopsis*?, 729
- Hartl, F. U.**
—; Molecular chaperones in protein folding in the cell, A51
- Hartl, U.**
—; Pathways of chaperone-assisted protein folding in the cytosol, A140
- Hartl, U. F.**, See Ashcroft, A. E.
- Hartmann, K.**, See Schreiber, L.
- Hartmann, M.-A.**
—; Wentzinger, L.; Hemmerlin, A.; Bach, T. J.
Metabolism of farnesyl diphosphate in tobacco BY-2 cells treated with squalestatin, 794
- Hartog, C.**, See Duce, J.
- Harvey, K.**
—; All three WW domains of murine Nedd4 are involved in the regulation of the epithelial sodium channel, A453
- Harwood, J. L.**, See Al-Malki, A.; Baldwin, A.; Edlin, D. A. N.; Guschina, I. A.; Roy, A. B.; Williams, M.
- Hasegawa, S.**
—; Yagi, K.; Honda, K.; Kamisoyama, H.; Furuya, N.; Sugawara, K.; Furuse, M.; Motoki, T.
Biochemical study on physiological function of secretin/glucagon family in chicken, A206
- Hashimoto, M.**, See Moffatt, J.
- Hashimoto, T.**, See Gasumov, K. G.
- Haslett, C.**, See Cunningham, G. A.
- Hasnah Parman, S.**, See Sambanthamurthi, R.
- Hassan, A. M.**, See Abdalla, E. M.
- Hassan, B.**, See Cobbe, N.
- Hassan, F. M.**
—; El-Serafy, T. I.; Al-Saady, A.; Al-Shebany, S.
Role of tumour necrosis factor in the aetiology of lipid abnormalities and cachexia in breast cancer patients, A222
- ; El-Serafy, T. I.; Qiary, A.; Radman, A.
Effect of Khat ingestion on some glucogenic hormones and related biochemical activities in diabetic Yemeni patients, A156
- Hassan, M. I.**
—; Ahmed, A. A.; Al-Lithy, G. A.; Abou-louz, S. K.; Al-Said, M. M.
Evaluation of superoxide dismutase (SOD) levels in ovarian neoplasms: relationship to cancer antigen 125 (CA125) and patient survival, A222
- Hassan, P.**
—; Kloeckner, T.; Wild, N.; Schimpf, S.; Vassella, E.; Boshart, M.
Genetic analysis of cAMP signalling during differentiation of *Trypanosoma brucei*, A480
- Hassouna, S.**, See Zaghoul, T. I.
- Haswell, S.**, See Wong, B.-S.
- Hatayama, T.**
—; Ishihara, K.; Yasuda, K.
Mammalian stress protein HSP105 is phosphorylated by casein kinase II, A411
- Hatcher, M. J.**, See Hogg, J. C.
- Hattori, K.**, See Nagamune, H.; Ohkura, K.
- Hatzopoulos, P.**, See Giannoulia, K.
- Haun, M.**, See Belline, P.; Pinto, L. M. A.
- Hauri, H. P.**
—; Lectins and protein traffic in the secretory pathway, A133
- Hauton, D.**, See Evans, R. D.
- Havas, K.**, See Whitehouse, I.
- Hawes, C. R.**, See Andreeva, A. V.
- Hay, D. L.**
—; Suthar, T.; Al-Almed, S. H.; Bloom, S. R.; Smith, D. M.
Adrenomedullin receptors in Rat-2 fibroblasts show adrenomedullin mediated desensitisation, A267
- Hayashi, H.**, See Olmo, M. T.
- Hayashi, K.**, See Selvakumar, P.
- Hayashi, S.**, See Kasahara, M.
- Haye, H. R.**
—; Blowers, D. P.; Hampton, I. P.; Taylor, I. W.; Grundy, C.; Tonge, D. W.
Peptide binding studies of GST and 6His-cmyc tagged forms of the Fas binding PDZ domain of the protein tyrosine phosphatase FAP-1, A429
- Hayeß, K.**, See Fuerst, D. O.
- Hayes, J. D.**
—; Chanas, S. A.; Henderson, C. J.; McMahon, M.; Sun, C.; Moffat, G. J.; Wolf, C. R.; Yamamoto, M.
The Nrf2 transcription factor contributes both to the basal expression of glutathione S-transferases in mouse liver and to their induction by the chemopreventive synthetic antioxidants, butylated hydroxyanisole and ethoxyquin, 33
- ; Inducible expression of antioxidant and detoxication enzymes as a mechanism of cancer chemoprevention, A5
- Hayes, N. V. L.**, See Newcombe, J.
- Hayman, C. M.**, See Paton, M. B.
- Hayman, M.**, See Slabas, A. R.
- Hayman, M. W.**
—; Fawcett, T.; Schierer, T. F.; Simon, J. W.; Kroon, J. T. M.; Gilroy, J. S.; Rice, D. W.; Rafferty, J.; Turnbull, A. P.; Sedelnikova, S. E.; Slabas, A. R.
Mutagenesis of squash (*Cucurbita moschata*) glycerol-3-phosphate acyltransferase (GPAT) to produce an enzyme with altered substrate selectivity, 680
- Hazrati-tappe, K.**
—; Zarghami, N.; Rahbar, M.; Shahi, H.
The effect of vitamin B12 on the cultivation of *T. vaginalis* in Diamond medium, A157
- He, Q.**
—; Welander, I.; Skog, S.
Improved measurements of DNA-PK and its activity in X-irradiated cells by isoelectric focusing, A214
- Heales, S. J. R.**, See Stone, R.
- Healy, M.**, See Jones, S.
- Heath, J.**
—; Receptor recognition by gp130 cytokines, A109
- Heath, S.**, See Carne, S. B.
- Heberle, J.**, See Bolwien, C.; Fastermann, D.; Heitbrink, D.
- ; Time-resolved observation of proton transfer reactions across and along energy-transducing membranes, A110
- Heberle-Bors, E.**, See Weingartner, M.
- Heck, M. S.**, See Cobbe, N.
- Hedfalk, K.**, See Bill, R. M.
- Heeley, D. H.**
—; Belknap, B.; White, H. D.
Calcium regulation of phosphate dissociation from actomyosin-ADP-Pi by thin filament proteins, A217
- Heerklotz, D.**
—; Calligaris, R.; Winkelhaus, S.; Kirschner, M.; Nover, L.; Scharf, K.-D.
Nuclear export and interaction with cytoplasmic chaperone complexes of tomato heat stress transcription factor HsfA2, A351
- Heery, D. M.**, See Harries, J. C.
- Heffernan, M.**, See Gianello, R.; Libinaki, R.
- Heffernan, M.**, See Ogru, E.
- Heffron, J. J. A.**, See McIntosh, J. M.
- Hehn, D.**, See Fastermann, D.
- Heidaran, M. A.**, See Spiro, R. C.
- Heijbel, A.**, See Haneskog, L.
- ; Andersson, K.; Carlsson, M.; Gustafsson, C.
Purification of poly(His)-tagged recombinant proteins using HisTrap, A261
- Heinz, E.**, See Leipelt, M.; Sperling, P.
- Heitbrink, D.**
—; Heberle, J.; Bolwien, C.; Sigurdson, H.; Brzesinski, P.
Time-resolved FTIR spectroscopy on fully-reduced CO bound cytochrome c oxidase, A189
- Hejkalova, V.**, See Strnad, H.
- Helenius, A.**
—; Co-translational protein folding in the living cell, A140
- Helliger, W.**, See Talasz, H.
- Hemmerlin, A.**, See Hartmann, M.-A.
- Hemphill, A.**
—; Sonda, S.; Cannas, A.; Keller, N.; Gottstein, B.
Molecular characterization of NcMIC3 in the apicomplexan parasite *Neospora caninum*, A480
- Henderson, C. J.**, See Hayes, J. D.
- ; Cytochrome P450s and chemoprevention, A6
- ; Sahraoui, A.; Wolf, C. R.
Cytochrome P450s and chemoprevention, 42
- Henderson, P. J. F.**, See Clough, J. L.; Hadden, D. A.; Hoyle, C. K.; Patching, S. G.; Pos, K. M.; Venter, H.; Ward, A.; Xie, H.

- ; Expression, purification and properties of multidrug efflux proteins, A65
- ; Hoyle, C. K.; Ward, A. Expression, purification and properties of multidrug efflux proteins, 513
- Hendriks, E.**
- ; van Deursen, F. J.; Wilson, J.; Sarkar, M.; Timms, M.; Matthews, K. R. Life-cycle differentiation in *Trypanosoma brucei*: molecules and mutants, 531
- Henis, Y. I.**, See Keren, T. A351
- Henneberry, A. L.**
- ; McMaster, C. R. A novel phosphotransferase motif unique to phospholipid synthesis: molecular analysis of substrate specificity determinants, A460
- Herbert, J.**, See Noursadeghi, M.
- Herbert, R. B.**, See Patching, S. G.; Venter, H.
- Herbrick, J.-A.**, See Vincent, J. B.
- Herion, P.**, See Gazarian, K. G.
- Hermann, A.**
- ; Fatemi, M.; Jeltsch, A. Molecular enzymology of the Dnmt1 DNA methyltransferase explains the mechanism of cis-spreading of DNA methylation, A248
- Hermann, M.**, See Rumpold, H.
- Hermon-Taylor, J.**, See Sheridan, J. M.
- Hernandez-Pinzon, I.**, See Murphy, D. J.
- Herráez, A.**, See Olmos, G.
- Herrera, R.**, See Moya, M. A.
- Herrera-Estrella, L.**
- ; Metabolic engineering of plants to improve fertilizer utilization, A98
- Hesse, L.**
- ; Ruppert, T.; Malcherek, S.; Cappai, R.; Masters, C. L.; Beyreuther, K.; Multhaup, G. The cysteine-rich domain of the amyloid precursor protein (APP) contains six disulphide bridges in two subdomains, A87
- Hetherington, A. M.**, See McAinsh, M. R.
- Heuer, A. H.**, See Trotter, J. A.
- Hewage, C.**, See Shine, A.
- Hibl, T.**, See Nakanishi, M.
- Hibino, Y.**, See Hiraga, K.
- ; Morita, Y.; Hirose, N.; Sugano, N.; Hiraga, K. Transcriptional activation by nuclear matrix protein P130/Mat3 associated with MAR, A249
- Hickey, G. I.**, See Hutchinson, O. C.
- Hickling, T. P.**, See Laich, A.
- ; Bright, H.; Wing, K.; Gower, D.; Martin, S. L.; Sim, R. B.; Malhotra, R. SP-A and SP-D modulate the infectivity of RSV, A490
- Hicks, K. B.**, See Moreau, R. A.
- Hidalgo, C.**
- ; Redox modulation of calcium release channels (ryanodine receptors) from excitable cells, A136
- Hide, G.**, See Duncanson, P.; Terry, R. S.; Tilley, A.
- ; Tilley, A.; Welburn, S. C.; Maudlin, I.; Tait, A. *Trypanosoma brucei*: Identification of trypanosomes with genotypic similarity to human infective isolates in tsetse isolated from a region free of human sleeping sickness, A480
- Higgins, C. F.**
- ; ATP-binding cassette (ABC) transporters and multidrug resistance, A66
- Higgs, P. G.**, See Hoyle, D. C.; Savill, N. J.
- High, S.**, See Russell, S. J.
- High, S.**
- ; Carbohydrates and cross-linking in the lumen of the endoplasmic reticulum, A124
- Higman, J. R.**, See Darbre, P. D.
- Higman, J. R.**
- ; Pope, G. S.; Sauer, M. J.; Darbre, P. D. Oestrogenic action of parabens on human breast cancer cells, A341
- Higuchi, Y.**, See Sugino, H.
- Hilcenko, C.**
- ; Berry, A.; Kalverda, A. P.; Homans, S. W. Multi-dimensional NMR spectroscopy to study the structure and dynamics of the class II fructose-1,6-bisphosphate adolase, See Williams, G.
- Hildebrand, D. F.**
- ; Afithile, M.; Fukushige, H. Regulation of oxylipin synthesis, 847
- Hill, C.**
- ; Signalling to the nucleus by TGF- β family members and regulation of transcription, A119
- Hill, L. M.**
- ; Rawsthorne, S. Carbon supply for storage-product synthesis in developing seeds of oilseed rape, 667
- Hills, M. J.**, See Fox, S. R.; Hobbs, D. H.
- Hiltunen, R.**, See Tammela, P.
- Himmel, M.**, See Fuerst, D. O.
- Hino, M.**, See Shinohara, Y.
- Hiraga, K.**, See Hibino, Y.
- ; Ya, azaki, K.; Kawai, A.; Hibino, Y. A presumable role of rat hepatic galectin 3 as a member of signaling cascades downstream from a tyrosine kinase during recovery from CC14-induced injury, A276
- Hirama, T.**, See Young, N. M.
- Hirashima, N.**, See Furuno, T.; Nakanishi, M.
- Hirata, M.**, See Kanematsu, T.; Takeuchi, H.
- Hirata, T.**
- ; Hubschwerlen, C.; Pirson, W.; Locher, H.; Page, M. Transport study of hydroxamic acid derivatives, novel inhibitors of bacterial peptide deformylase (PDF), A90
- Hirata, Y.**, See Xiao, H.
- Hirose, N.**, See Hibino, Y.
- Hirota, K.**, See Nagamune, H.
- Hiroto, K.**, See Ohkura, K.
- Hiroto-Nakaoka, N.**
- ; Goto, Y. Thiol group titration as a tool for understanding the effect of alcohol on proteins, A460
- Hirsch, V. M.**, See Sharp, P. M.
- Hisada, M.**, See Satake, H.
- Hisamitsu, A.**, See Matsui, K.
- Hiscox, S.**
- ; Hallett, M. B.; van den Berg, C. W. Expression of GPI-linked green fluorescent protein on the surface of CHO cells, A396
- Hitomi, Y.**, See Ohno, H.
- Ho, R.**, See Wynn, R. M.
- Hobbs, D. H.**
- ; Hills, M. J. Expression and characterization of diacylglycerol acyltransferase from *Arabidopsis thaliana* in insect cell cultures, 687
- Hobbs, A.**, See Lisovskiy, I.
- Hodgman, T. C.**
- ; Graduate skills desired by the pharmaceutical industry, A67
- Hodhod, S.**, See El-Asmar, M. F.
- Hodneland, C.**, See Trotter, J. A.
- Hoeljmackers, J.**
- ; DNA damage, repair, cancer and ageing in man and mice, A102
- Hoffmeyer, J.**
- ; Making sense of the cellular economy and its regulation: a framework for biotechnological manipulation, A106
- Hofslagare, A. L.**
- ; Thelander, L. Characterization of the promoter region of the mouse ribonucleotide reductase R2 gene, A286
- Hogg, J. C.**
- ; Smith, J.; Hatcher, M. J.; Dunn, A. Discrimination of cryptic species of transovarially transmitted microsporidia, A481
- Hohansson, H. J.**, See Haneskog, L.
- Hohmann, S.**, See Bill, R. M.
- Hojo, I.**, See Nakashima, K.
- Hol, W. G. J.**, See Wynn, R. M.
- Holgate, S.**
- ; Gene-environment interactions in the origin and progression of asthma, A105
- Holland, D. B.**, See Jeremy, A. H. T.
- Hollande, F.**
- ; Blanc, E.; Choquet, A.; Shulkes, A.; Bali, J. P.; Baldwin, G. S. Differential effect of glycine-extended and amidated gastrins on a new gastric epithelial cell line, A294
- Holländer, G. A.**, See Kulyté, A.
- Hollingsworth, E. J.**
- ; Brown, R.; Isupov, M. N.; Taylor, S.; Littlechild, J. A. Cloning, expression and purification of a thermostable aminoacylase from *Thermococcus litoralis*, A78
- Holliss, C. A.**, See Lott, J. S.
- Holloway, K. A.**, See Mansion, M. M.
- Holmes, D.**, See Trotter, J. A.
- Holt, I.**
- ; Clements, L.; Manilal, S.; Morris, G. E. The molecular pathogenesis of a disease-causing mutation (g993t) in the emerlin gene: an *in vitro* mutagenesis study, A301
- Holtman, W. L.**
- ; Roberts, M. R.; Wang, M. 14-3-3 Proteins and a 13-lipoxygenase form associations in a phosphorylation-dependent manner, 834
- Holzenburg, A. K. H.**, See Xie, H.
- Homans, S. W.**, See Hilcenko, C.; Venter, H.
- Homma, H.**
- ; Long, Z.; Imai, K. D-Aspartate in the rat testis, A342
- Hon, W. C.**, See Greene, L. H.
- Honda, K.**, See Hasegawa, S.
- Honeyman, G.**
- ; Fawcett, T. Protein interactions of fatty acid synthase II, 615
- Hong, D. P.**, See Okumoto, M.
- Hong, F.**, See Kang, I.; Kim, S. S.
- ; Chun, Y. K.; Ha, J.; Kim, S. S. Core promoter mutations, viral replication and liver damage are not related with each other in chronic hepatitis B infection, A211
- Hong, J.-R.**
- ; Wu, J.-L. A novel Bcl-2 family member from aquabirnavirus with anti-apoptotic

- death function but without transmembrane domain, A375
- Hong, Y.**, See Mathur, A.
- Hong, Y.-R.**, See Chen, C.-H.
- Honma, M.**, See Yao, M.
- Hood, C.**, See Foster, M. R.
- Hood, D. B.**, See Nayyar, T.
- Hoodbhoy, Z. A.**, See Saeed, S. A.
- Hooker, T.**, See Kunst, L.
- Hooks, M.**, See Eastmond, P. J.
- Hooper, N. M.**, See Canet-Aviles, R. M.; Cottrell, G. S.; Lindley, C. H.; Ofner, L.; Pang, S.; Parkin, E. T.; Perera, W. S. S.; Tipnis, S. R.; Walmsley, A. R.; Watt, N. T.; Zeng, F.
- ; Protein-processing mechanisms: from angiotensin-converting enzyme (ACE) to Alzheimer's, A60
- ; Turner, A. J.
- Protein processing mechanisms: from angiotensin-converting enzyme to Alzheimer's disease, 441
- Hope, I. A.**, See Appleford, P. J.
- Hope, R. G.**, See Murphy, D. J.
- Hopia, A.**, See Tammela, P.
- Hopper, A. K.**, See Gajewska, B.
- Horak, V.**, See Pohlreich, P.
- Horan, I.**
- ; Tomkins, P. T.
- Biological and chemical analysis of complex natural products, A46
- Horasanly, E.**, See Öztürk, H. S.
- Hori, C.**, See Hori, S.
- Hori, K.**, See Kurotsu, T.
- ; Takeda, H.; Ishigaki, T.; Kaya, K.; Tsjita, J.; Hori, S.
- Regulation of energy balance in Zucker fatty rats and lean rats during cold acclimation and deacclimation, A193
- Hori, S.**, See Hori, K.
- ; Ohtani, S.; Hori, C.; Yamada, M.; Yokomizo, T.; Nokihara, K.; Seyama, Y.
- Myonase is a chymotrypsin-like proteinase which is localized in myofibril, A344
- Horikawa, S.**, See Hagiwara, K.
- Horikawa, Y.**, See Tamaki, N.
- Horikoshi, K.**, See Kaneko, H.
- Horiuchi, A.**, See Yao, M.
- Horiuchi, D.**, See Sato, K.-I.
- Horn, W. T.**
- ; Convery, M. A.; Stonehouse, N. J.; Trinh, C.; Stockley, P. G.; Phillips, S. E. V.
- Studies of RNA-protein interactions and RNA structure utilizing the bacteriophage MS2 capsid, A71
- Hornigold, D. C.**
- ; Blank, J. L.; Eglan, R. M.; Challiss, R. A. J.
- Muscarinic receptor crosstalk in the regulation of ERK and JNK activities in CHO-m2m3 cells, A429
- Hörnle, C.**, See Ignatova, Z.
- Hornung, E.**
- ; Rosahl, S.; Kühn, H.; Feussner, I.
- Creating lipoygenases with new positional specificities by site-directed mutagenesis, 825
- Horowitz, M.**, See Rotem-Yehudar, R.
- Horsnell, W. G. C.**
- ; Fletcher, S.; Bredl, J.; Goode, N. T.
- Activation of protein kinase C increases neurotransmitter levels in murine neuroblastoma cells, A83
- Horton, A.**, See Utsumi, K.
- Horton, A. A.**
- ; Yamamoto, S.; Tamai, H.; Yoshioka, T.; Utsumi, K.
- Mechanism of α -tocopheryl succinate-induced apoptosis of HL-60 cells, A375
- Hosokawa, Y.**, See Nabika, T.
- ; Kajita, Y.; Tanigawa, Y.; Totani, M.
- Regulation of human cysteine dioxygenase in HEPG2 cells, A193
- Hossain, M. A.**
- ; Corzo, G.; Nakajima, T.
- Identification and characterization of Na⁺ channel blocker spider peptide toxin binding-proteins from the crop pest *Spodoptera litura*, A276
- Hosseini, R.**
- ; Hampel, G.; Jung, K.; Rankohi, K. E.
- Study on secretion of matrix metalloproteinases and their biological tissue inhibitors by cultured human glomerular mesangial cells, A170
- Hosseinkhani, S.**
- ; Nemat-Gorgani, M.
- Interaction of a hydrophobic ligand with the FAD-binding site of glucose oxidase, A418
- Hottiger, M. O.**
- ; Hübscher, U.; Stagljar, I.
- Detection of protein-protein interactions by variations of the yeast two-hybrid system, A260
- Hou, Y.-D.**, See Li, J.
- Houard, X.**, See Siviter, R. J.
- House, J. D.**, See Stead, L. M.
- Houten, S. M.**, See Waterham, H. R.
- Howard, C. R.**, See Kanellos, T.
- Howard, M.**, See Patrakitkomjorn, P.
- Howard, V. J.**
- ; Belyaeva, T.; Busby, S. J. W.; Hyde, E. I.
- DNA binding of the *E. coli* transcription activator MeIR, A287
- Howells, L. M.**, See Mansion, M. M.
- Howes, K.**, See Gostick, D.
- Howl, J.**, See Bates, R. L.; Farquhar, M. J.; Fitchett, C. J.
- Howlett, G. J.**, See Dixon, M.
- Howling, G.**
- ; Dettmar, P.; Goddard, P. A.; Hampson, F. C.; Dornish, J. M.; Wood, E. J.
- Effect of chitosan on human dermal fibroblasts *in vitro*: evidence for two donor-dependent populations of fibroblasts, A84
- Howng, S.-L.**, See Chen, C.-H.
- Hoyaux, P.**, See Fauconnier, M.-L.
- Hoyes, J.**, See Gostick, D.
- Hoyle, C.**, See Carne, S. B.
- Hoyle, C. K.**, See Clough, J. L.; Henderson, P. J. F.; Ward, A.
- ; Morrison, S. M.; Henderson, P. J. F.; Ward, A.
- Expression in *Escherichia coli*, purification and characterization of the NorA(His)₆ multidrug efflux protein, from *Staphylococcus aureus*, A88
- Hoyle, D. C.**
- ; Higgs, P. G.; Savill, N. J.
- RNA sequence evolution with secondary structure constraints, A185
- Hryshko, L.**, See Dunn, J.
- Hsu, H. K.**, See Chang, H. C.
- Hsu, W.-B.**, See Chen, J.-H.
- ; Chen, J.-H.
- Isolation and characterization of the IS1 element (IS1SB) from *Shigella boydii*, A180
- Hsu, Y. D.**, See Shyu, W. C.
- Hu, H. Y.**, See Xu, G. J.
- Hu, N.-T.**, See Tsai, R.-T.
- Huang, C.-Y. F.**, See Wang, C.-Y.
- Huang, G.-C.**, See Zhou, J.-M.
- Huang, W.-C.**
- ; Wang, Ai. Y.; Sung, H.-Y.
- Cloning, characterization and heterologous expression of a cDNA encoding vacuolar invertase from sweet potato leaves, A406
- Huang, Y.**, See Liang, X.
- Huang, Y.-J.**
- ; Lin, C.-H.; Wang, A.-Y.
- Biochemical and molecular characterization of sucrose synthase from shoots of bamboo *Leleba oldhami*, A403
- Huang, Y.-S.**, See Das, T.
- Huang, Z.-X.**, See Wang, Z.-Q.
- Hubbard, P. A.**
- ; Paschke, R.; Shen, A. L.; Kasper, C. B.; Kim, J. J.-P.
- Structural perturbations of NADPH-cytochrome P450 oxidoreductase: implications for π - π orbital overlap, A327
- Hubbard, R. E.**, See Pike, A. C. W.
- ; Structural aspects of agonism and antagonism in the oestrogen receptor, A63
- Hubbard, S. J.**, See Wilson, C. L.
- Hubbs, A. E.**, See Fishbein, W. N.
- Hube, B.**, See Leipelt, M.
- Huber, P. A. J.**, See Medhurst, A. L.
- Hubert, N.**, See Verdier, F.
- Hübscher, U.**, See Hottiger, M. O.
- Hubschwerien, C.**, See Hirata, T.
- Huckerby, T. N.**, See Moore, S.
- Hudson, E. A.**, See Mansion, M. M.
- Hudson, T.**
- ; From genomes to populations: relevance to human genetic diseases, A103
- Huggett, J.**
- ; Mason, D. J.
- Characterisation of glutamate transporters in bone, A391
- Hughes, A. A.**, See Augusteyn, R. C.
- Hughes, C.**, See Gostick, D.
- Hughes, E.**
- ; Burke, R.; Doig, A. J.
- Inhibition of toxicity in the Alzheimer's disease peptide fragment β (25-35) using N-methylated derivatives, A72
- Hughes, G. A.**, See Jeanplong, F.
- Hughes, J. P.**
- ; Staton, P.; Wilkinson, M. G.; Kee, W. J.; Strijbos, P. J. L. M.; Skaper, S. D.; Reith, A. D.
- Regulators and effectors of ERK/MAPK activation in synaptically-mediated excitotoxicity in hippocampal neurones, A430
- Hughes, P.**
- ; Twist, L.; Durham, J.; Choudhry, A.; Drayson, M.; Chandraratna, R.; Michell, R.; Kirk, C.; Brown, G.
- Steroid sulphatase activity is up-regulated during retinoid and vitamin D₃-induced differentiation of HL60 cells, A292
- Hulme, E. C.**, See Lu, Z.-L.
- Hult, K.**, See Ottosson, J.; Viklund, F.
- Humlova, Z.**, See Bartosova, M.
- Humphrey, T.**
- ; Translational response to stress in fission yeast, A108
- Humphries, M. J.**, See Green, L. J.; Mostafavi-Pour, Z.
- ; Integrin structure, 311
- ; The year 2000 integrin model: unleaded petrol, single propeller, traction control, and 0-125 in the shake of a cam's tail, A49
- Hung, V. S.**, See Skorupińska-Tudek, K.
- Hung, W. C.**, See Chang, H. C.

- Hunt, D.**
—; Proteomics: automated identification of peptides and proteins at the attomole level in complex mixtures by mass spectrometry, A124
- Hunt, D. M.,** See Newbold, R. J.
- Hunter, G.,** See Kanke, T.
- Hunter, M.,** See Kad, N.
- Hunziker, W.,** See Wyss, A.
- Huot, T. J. G.**
—; Hara, E.; Peters, G.
Modulation of Id function during the cell cycle by Cdk-dependent phosphorylation, A368
- Hur, M.-W.,** See Cha, J.-Y.
- Hur, M.-W.,** See Lee, W.-J.
- Hurd, H.,** See Al-Olayan, E.
- Hurlstone, C.,** See Stoutjesdijk, P. A.
- Hurst, D.,** See Siviter, R. J.
- Hurst, R. D.,** See Stone, R.
- Husimi, Y.,** See Ito, Y.
- Hussain, A.,** See Sheikh, M. A.
- Hussain, T. B.**
—; Grafton, G.; Gordon, J.
Studies with L-type Ca²⁺ channel antagonists provide evidence for induction of apoptosis in Burkitt lymphoma group I cells, A375
- Hussein, D. E.,** See Zaghoul, T. I.
- Husselstein, T.,** See Rahier, A.
- Hutchinson, O. C.**
—; Hickey, G. I.; Wisdom, G. B.
Purification and characterization of lectins from the fungi *Xylaria polymorpha* and *Beauveria bassiana*, A40
- Hutter, A.**
—; Panoutsopoulou, K.; Jones, P.; Oliver, S. G.
Multiple gene deletions in industrial yeasts, A150
- Hutton, M.,** See Gibb, G. M.
- Hwang, I.,** See Roh, T.
- Hwang, I.-T.**
—; Lee, Y.-H.; Ahn, K.-Y.; Chun, J.-Y.
Identification and characterization of a new member of the placental prolactin-like protein-C (PLP-C) subfamily, PLP-C β that produces an alternative isoform, A287
- Hwang, P. P.,** See Weng, C. F.
- Hyde, E. I.,** See Howard, V. J.
- Hyde, E. I.,** See Lovering, A. L.; Ray, P.
- Hyde, R. J.,** See Parker, M. D.
- ; Abidi, F.; Griffiths, M.; Yao, S. Y. M.; Sundaram, M.; Phillips, S. E. V.; Cass, C. E.; Young, J. D.; Baldwin, S. A.
Sensitivity of mammalian equilibrative nucleoside transporters to nitrobenzyl thioinosine (NBMPR): identification of an amino acid residue fundamental in sensitivity, A93
- Hytioglou, P.,** See Kotoula, V.
- Hyun, W.,** See Daniels, R. H.
- Hyvonen, M.**
—; Blundell, T. L.
Analysis of protein-protein interactions in eukaryotic signalling, A146
- Ichikawa, H.,** See Kojima, A.
- Ichikawa, S.,** See Darjania, L.
- Ichise, N.,** See Darjania, L.
- Ichiyama, S.**
—; The cyanoalanine residue as an intermediate structure in the catalytic reaction of L-2- aloacid dehalogenase Asp¹⁰Asn mutant, A452
- Ide, T.,** See Taguchi, T.
- Iglesias, A. A.,** See Aon, M. A.
- Ignatova, Z.**
—; Hörnle, C.; Kasche, V.
Penicillin amidases from different sources—variety of translocation mechanisms, A74
- Ihara, Y.**
—; Yamaguchi, M.; Kageyama, K.; Urata, Y.; Kondo, T.
Hyper glucose-effect on PI3K/Akt signalling pathway leads to enhancement of oxidative cell damage in insulinoma BetaTC cells, A430
- Iizuka, M.,** See Yoshida, H.
- Ikebuchi, H.,** See Teshima, R.
- Ikegami, S.,** See Sugino, H.
- Ikematsu, S.,** See Muramatsu, H.
- Iko, Y.,** See Sambongi, Y.
- Iles, R. A.,** See Burns, S. P.
- Ilkavets, I.**
—; Role of calcium in phytohormone transduction as studied using aequorin-containing transgenic tobacco, A450
- Imada, K.,** See Nabika, T.
- Imagawa, T.,** See Abe, K.
- Imagawa, T.,** See Kanagawa, M.
- Imagawa, T.**
—; Teramachi, S.; Kaya, S.; Taniguchi, K.
Functional consequences of mutation Lys-501 in the rat alpha-1 subunits of Na, K-ATPase, A189
- Imai, H.,** See Nishiura, H.; Tamura, K.
- Imai, K.,** See Homma, H.
- Imanaka, T.,** See Kitano, K.
- Inaba, A.,** See Tomomura, A.
- Inagaki, K.,** See Takada, T.
- ; Noguchi, T.; Takada, T.; Tsuda, M.; Takeda, H.; Matozaki, T.; Kasuga, M.
Negative regulation of integrin-mediated signalling by SAP-1, a transmembrane-type protein-tyrosine phosphatase, A430
- Inayat-Hussain, S.**
—; Differential involvement of caspases in hydroquinone-induced apoptosis in leukaemic HL-60 and Jurkat T cells, A447
- Ingram, J. C.,** See Barnes, K.; Booth, Z. A.
- Innis, C. A.**
—; Shi, J.; Blundell, T. L.
Evolutionary trace analysis of TGF- β and related growth factors, A267
- Inokuchi, N.,** See Ohgi, K.
- Inoue, T.,** See Okumura, T.
- Ireland, H.,** See Parkinson, E. K.
- Irie, M.,** See Ohgi, K.
- Iritani, N.**
—; Fukuda, H.
Coordinate regulation of leptin and lipogenic transcription by glucose/insulin, A177
- Ironsides, J. E.**
—; Dunn, A. M.; Smith, J. E.
Diversity of a mitochondrial gene reveals patterns of parasite transmission, A481
- Irvine, G. B.,** See Bodles, A. M.
- Irvine, S. A.**
—; Cryer, A.; Ramji, D. P.
Regulation of macrophage lipoprotein lipase by transforming growth factor- β , A338
- Irvine, N.,** See McLoughlin, D. M.
- Irwin, J. A.**
—; Gudmundsson, H. M.; Alfredsson, G. A.; Engel, P. C.
A novel serine proteinase from the psychrophile *Vibrio* PA-43, A312
- Isaac, R. E.,** See Appleford, P. J.; Coates, D.; Siviter, R. J.; Stancombe, P. R.
- ; Conserved roles for peptidases in the processing of invertebrate neuropeptides, A61
- ; Siviter, R. J.; Stancombe, P.; Coates, D.; Shirras, A. D.
Conserved roles for peptidases in the processing of invertebrate neuropeptides, 460
- Ishchenko, A. A.,** See Fedorova, O. S.
- ; Sinityna, O. I.; Vasunina, E. A.; Krysanova, J. S.; Douglas, K. T.; Nevinsky, G. A.
Excision of 8-oxoguanine and hypoxanthine from DNA in hepatocytes of Wistar rats and rats with overgeneration of free radicals, A165
- Ishibashi, T.,** See Nishino, H.
- Ishida, T.,** See Shinohara, Y.
- Ishigaki, T.,** See Hori, K.
- Ishiguro, M.,** See Sugase, K.
- Ishihara, K.,** See Hatayama, T.
- Ishii, A.,** See Kumazawa, T.; Taguchi, T.
- Ishisaka, R.,** See Utsumi, T.
- Ishizuka, M.**
—; Shibahara, Y.; Okura, F.; Kato, M.; Nakatogawa, H.; Ushio, K.
Molecular cloning of the genes coding for thermostable lipases from several *Pseudomonas* strains induced by fatty alcohols, A193
- Iskenderova, S. G.**
—; Gasanov, R. A.
The state of delayed luminescence characteristics of microalgae in condition of oil hydrocarbons treatment, A403
- Ismayilov, M. A.,** See Aliyev, J. A.
- Isobe, K.,** See Xiao, H.
- Isobe, T.,** See Natsume, T.
- Isokpehi, R. D.**
—; Coker, A. O.
In silico evidence for horizontal gene transfer of Type II restriction-modification genes in *Helicobacter pylori*, A185
- Isupov, M.,** See Gonsalvez, I. S.
- Isupov, M. N.,** See Hollingsworth, E. J.; Schröder, E.
- Itaya, A.,** See Tanaka, Y.
- Ito, K.,** See Adcock, I. M.
- Ito, S.,** See Okumura, T.
- Ito, Y.,** See Toyoda, Y.
- ; Suzuki, M.; Husimi, Y.
A mutant of green fluorescent protein with enhanced sensitivity at 488nm excitation and its application, A263
- Iturriz, X.,** See Reaux, A.
- ; Vazeux, G.; Corvol, P.; Llorens-Cortès, C.
Structure-function relationships of aminopeptidase A, A82
- Ivanov, A. S.**
—; Dubanov, A. V.; Sechenykh, A. A.; Skvortsov, V. S.; Archakov, A. I.
Rational approaches to the homology modelling of 3D structures of cytochromes P450, A418
- Ivanov, G.**
—; Increased adhesion of lymphoid cells to glycosylated proteins, A449
- Ivanov, I.**
—; Teaching biochemistry to students trained in chemistry, A121
- Ivanov, Yu. D.,** See Archakov, A. I.
- Ivanova, V. P.**
—; Mindukshev, I. V.; Kovalyova, Z. V.; Anokhina, V. V.; Krivchenko, A. I.
Novel peptide-activator of CHO cell aggregation, A206
- Ivanovlene, L.**
—; Up-dating of biochemistry teaching, A111

- Ivens, A., *See* Myler, P. J.
 Iwabuchi, K., *See* Ohno, H.
 Iwadate, H.
 —; Kawamata, K.; Kudo, M.; Kizuki, K.
 Immunohistochemical demonstration of tissue kalikrein in the neuronal nuclei of the developing rat brains, A312
 Iwama, M., *See* Ohgi, K.
 Iwamoto-Kihara, A., *See* Sambongi, Y.
 Iwasaki, T., *See* Sato, K.-I.; Tokmakov, A. A.
 Iwasaki, W., *See* Tanokura, M.
 Iwashita, T., *See* Sugase, K.
 Iwata, S., *See* Byrne, B.
 Iwata, S.
 —; Structural studies on the respiratory complexes: cytochrome *bc₁* complex and terminal oxidases, A100
 Izquierdo, G. B., *See* García-García, J. C.
 Izzard, T. D., *See* Birkett, S. D.
- Jablonska-Skwieciniska, E., *See* Grabowska, D.
 Jackson, T. R., *See* Harrington, L. S.
 Jackson, Z. E., *See* Price, I. K.
 Jacobasch, G., *See* Florian, S.
 Jacobasch, G., *See* Marinovic, M.
 Jacobasch, G.
 —; Lindhammer, A.; Schulz, J.
 Inhibition of *P. falciparum* invasion in PK- and PGI-deficient red blood cells by inducing band 3 protein degradation, A217
 Jacobs, R. L.
 —; Brosnan, M. E.; Brosnan, J. T.
 Effects of glucagon treatment on homocysteine metabolism in the rat, A460
 Jacobs-Lorena, M., *See* Marana, S. R.
 Jacobson, A., *See* Gostick, D.
 Jadidi, M., *See* Mansilla, F.
 Jagannathan, A.
 —; Constantinidou, C.; Penn, C. W.
 The role of *rpoN*, *nirC* and *flaA* in flagellar expression in *Campylobacter jejuni*, A178
 Jager, M., *See* Espinosa, G.
 Jagger, W. S., *See* Augusteyn, R. C.
 Jagodzinski, P. P.
 —; Trzeciak, W. H.
 The effect of polysaccharide sulphates on the production of interleukin-8 in an *ex vivo* model, A257
 Jahanzad, I., *See* Azizi, E.
 Jain, R. K.
 —; Coffey, M.; Lai, K.; Kumar, A.; MacKenzie, S. L.
 Enhancement of seed oil content by expression of glycerol-3-phosphate acyltransferase genes, 959
 James, D., *See* Sage, E.; Weeks, M.
 James, D. C., *See* Baker, K. N.
 James, N. H., *See* Orphanides, G.
 James, R., *See* Millar, J. K.
 Jamil, A., *See* Sheikh, M. A.
 —; Martinson, H. G.
 Kinetics of mRNA polyadenylation and its relation to transcription termination in eukaryotes, A461
 Janata, J., *See* Gakh, O.
 Jang, S. Y., *See* Lee, D. G.
 Jankiewicz, U., *See* Bielawski, W.
 Janku, F., *See* Kleibl, Z.
 Jänne, O. A.
 —; Androgen receptor-interacting nuclear proteins, A64
 —; Moilanen, A.-M.; Poukka, H.; Rouleau, N.; Karvonen, U.; Kotaja, N.; Häkli, M.; Palvimo, J. J.
 Androgen-receptor-interacting nuclear proteins, 401
 Jannoyer, M., *See* Gontier, E.
- Jansen, G. A., *See* Wanders, R. J. A.
 Jansome, I., *See* Baumanis, V.
 Janssen, M. J. F. W.; van Voorst, F.; de Kroon, A. I. P. M.; de Kruijff, B.
 —; Development of a novel strategy for studying mitochondrial import of phosphatidylcholine involving photocrosslinking, A397
 Jansson, O., *See* Natsume, T.
 Jaramillo, L. R. D.
 —; Barraza, A. B.; Polo, B. A.; Sara, M.; Escamilla, M. J. E.
 On the aerobic respiratory system of *Eikenella corrodens*, A189
 Jargiello, M. B., *See* Antosz, H. Z.
 Jarosz-Wilkolazka, A.
 —; Malarczyk, E.
 The level of glutathione (GSH) and GSH-related enzymes after the exposure of white-rot fungi to heavy metals, A24
 Jarra, W., *See* Kaviratne, M.
 Jarrett, J. T., *See* Ugulava, N. B.
 Järvi, J., *See* Sak, S.
 Järvik, G. P., *See* Li, W. F.
 Jarvis, S. M., *See* Leadsham, J. E.; Liang, W.-J.
 Jasani, B., *See* Harris, C. M.
 Jasar, D., *See* Dimovski, A. J.
 Jaschinski, F.
 —; Spinas, G. A.; Trüb, T.
 Tyrosine phosphorylation of the insulin receptor (IR) is induced by binding to insulin receptor substrates (IRS) 1 and 2, A267
 Jastrzebska, B.
 —; Calcyclin binding protein (CacyBP) is present in neurons of rat brain, A443
 Jaworski, A., *See* Majchrzak, M. J.; Parniewski, P.
 Jayasena, S.
 —; A heat shock protein 70 gene from the filarial nematode, *Setaria digitata*, A444
 Jean, L.
 —; Soldati, D.; Grosclaude, J.; Labbe, M.; Tomley, F.; Pery, P.
 Trafficking and function of a GPI-anchored aspartyl proteinase from *Eimeria* species, A481
 Jeang, C.-L.
 —; Chen, L.-S.; Chen, M.-Y.; Shiau, R.-J.
 Cloning and expression of raw starch digesting amylase gene from *Cytophaga* sp. in *Escherichia coli*, A214
 Jeanplong, F.
 —; Nicholas, G. D.; Hughes, G. A.; Kambadur, R.; Bass, J. J.; Oldham, J. M.
 Effect of long-term malnutrition on myostatin and IGF-II expression in ovine skeletal muscle, A172
 Jeffers, R., *See* Mimura, Y.
 Jeffrey, I. W., *See* Bommer, U.-A.
 Jeffries, T. R., *See* Morgan, G. W.
 Jehl, M. M., *See* De, S.
 Jelski, B., *See* Cabane, C.
 Jeltsch, A., *See* Franz, S.; Gowher, H.; Hermann, A.
 —; Gowhar, H.
 Molecular enzymology of the DNA-(adenine-N6)-methyltransferase M.EcoRV: kinetic mechanism, kinetics of DNA binding and bending, and linear diffusion, A312
 Jemal, F.
 —; Zarrouk, M.; Ghorbal, M. H.
 Effect of cadmium on lipid composition of pepper, 907
 Jemiola-Rzemińska, M.
 —; Myśliwa-Kurdiel, B.; Kruk, J.; Strzalka, K.
- Comparative differential scanning calorimetry (DSC) and fluorescence studies on the significance of quinone structure on its interaction with model membranes, A461
 Jenkins, D., *See* Birmingham, J.; Dockery, P.
 Jenkins, R.
 —; Bioinformatics in the undergraduate curriculum, A66
 Jenkinson, D., *See* Khattab, A. D.
 Jennings, R.
 —; Kelliher, M.; O'Neill, C.
 Markedly reduced levels of soluble β -catenin in Alzheimer's disease brain, A35
 Jensen, M., *See* Johnston, J. A.
 Jeong, C. S., *See* Kang, C. D.
 Jeremy, A. H. T.
 —; Aldana, O. L.; Roberts, S. G.; Holland, D. B.; Cunliffe, W. J.
 Aberrant integrin expression in acne, A85
 Jeremy, J. Y., *See* Rowe, D.
 Jeronicic, A.
 —; Prediction of protein-folding initiation sites with α -helix preferences, A446
 Jesionowska, A., *See* Gajewska, B.
 Jesmin
 —; Nagy, J. M.; Cass, A. E. G.; Brown, K. A.
 Construction, expression and characterization of site-directed mutants of the *katG* gene from *Mycobacterium tuberculosis*, A327
 Jespersen, L. K., *See* Schmidt, M. C.
 Jethwa, V. K.
 —; Thomas, W. M.; McHale, M.; Shelton, P.; Furness, P. N.
 Gene expression analysis of inflammatory bowel disease, A157
 Jeyakumar, L., *See* Sharma, M. R.
 Jeyaseelan, K., *See* Deivanayagam, S.; Ma, D. H.
 Jezek, P., *See* Borecky, J.
 Jezierski, G., *See* Kedzierska, S.
 Jiang, J., *See* Daniels, R. H.
 Jiang, W. J., *See* Ogru, E.
 Jimbo, Y., *See* Torimitsu, K.
 Jimenez, L.
 —; Landa, A.
 Sequencing, cloning and expression of the *Taenia solium* triose phosphate isomerase and glyceraldehyde 3-phosphate dehydrogenase, A313
 Jiménez, M. A., *See* Vila, R.
 Jin, S., *See* Liao, K.
 Jin, Y.-Z., *See* Matsubara, K.
 Jiricny, J.
 —; Mismatch repair defects in hereditary colon cancer, A101
 Joe, Y. A., *See* Chang, S.-I.
 John, D. C. A., *See* Bulleid, N. J.
 Johnson, A. W., *See* Eaton, S.
 Johnson, B., *See* Baker, A.
 Johnson, C. A., *See* Barlow, A. L.; White, D. A.
 Johnson, D., *See* Liang, W.-J.
 Johnson, P., *See* Wilson, D. O.
 Johnson, P. M., *See* Vince, G. S.
 —; Leucocyte populations and cytokine regulation in human uteroplacental tissues, A18
 Johnson, S. K., *See* Griep, M. A.
 Johnston, I.
 —; Hanke, P.; Caselmann, W.; Günther, G.; Schmitz, J.
 A novel way to immunoprecipitate proteins using super-paramagnetic MicroBeads, A215
 Johnston, J. A.
 —; Jensen, M.; Lannfelt, L.; Walker, B.; Williams, C.

- Inhibition of prolylendopeptidase does not affect γ -secretase processing of amyloid precursor protein, A33
- Johnstone, A. P.**, See Da Costa, C. R.
- Johnstone, S. R.**, See Saxty, B. A.
- Jolles, B.**, See Djavanbakht, T.
- Jonczyk, P.**, See Banach, M.; Gawel, D.; Maliszewska-Tkaczyk, M.
- Jones, A. L.**, See Duce, J.; Duce, J. A.
- Jones, C. J. P.**, See Aplin, J. D.
- Jones, G. H.**, See Franklin, F. C. H.
- Jones, G. R.**, See Andrew, C. D.; Cochran, D. A. E.
- Jones, H. D.**, See Edlin, D. A. N.
- Jones, I. M.**, See Wong, B.-S.
- Jones, K. C.**, See Abigor, R. D.
- Jones, P.**, See Hutter, A.
- Jones, R.**, See Atorino, L.
- Jones, S.**
—; Reader, J. S.; Healy, M.; Smith, D. A.; Radford, S. E.
Unfolding of the β -sheet protein Y74W apo-pseudoazurin: evidence of an equilibrium intermediate species, A69
- Jones, T. H. D.**, See Choi, W. S.
- Jones-Heiland, T.**
—; Carey, I.; Smith, A. M.; Connolly, A.; Ray, J.
RAGE: a method for rapid gene expression profiling, A173
- Jordan, N. D.**, See Wheeler, M. J.
- Jormakka, M.**, See Byrne, B.
- Joseph, J. S.**, See Rao, V. S.
- Joseph, S. K.**, See Boehning, D.
- Jouvenot, M.**, See Nemos, C. Cypriani, B. A296
- Joyard, J.**, See Maréchal, E.
- Joyce, E.**, See Morgan, H. E.
- Jridi, T.**, See Belguith, H.
- Julkunen, I.**, See Matikainen, S.; Sareneva, T.
- Jun, X.**, See Bo, N.
—; Bo, N.; Kang, W. Y.; Wang, H. Z.; Chen, N. L.
Effect of rhTGF- β 1 on growth of NRK cells *in vitro*, A338
- Jung, K.**, See Hosseini, R.
- Jung, K. K.**
—; Yi, S. W.; Kang, S. Y.; Kim, T. G.; Kang, J. H.; Lee, J. H.; Kim, S. H.; Han, H. M.
Curcumin-induced inhibition of microglial activation, A305
- Jung, S.**, See Powell, G. L.
- Jung, S. H.**, See Jung, Y.
- Jung, Y.**
—; Ha, H.; Sohn, J. H.; Lee, H. W.; Jung, S. H.; Yeh, B. I.
Mutation of cystic fibrosis gene in patients with lung cancer, A303
- Junier, M.-P.**, See Lorino, H.
- Juntawong, N.**
—; Kumthornjaroen, P.; Komdhat, J.
The transfer of reporter genes to seeds of chilli (*Capsicum frutescens* L.) by using the pollen tube pathway, A403
- Jupp, O. J.**, See McFarlane, S. M.
- Jurka, A.**, See Tretjakovs, P.
- Jurukovska, N.**, See Markova, N. G.
- Kaback, R.**
—; The lactose permease of *Escherichia coli*: what to do while awaiting crystals of a membrane transport protein and thereafter, A143
- Kabov, O. K.**, See Luchkina, L. A.
- Kacmaz, M.**, See Öztürk, H. S.
- Kacmaz, M.**, See Gokhun, I. H.
—; Karaayvaz, M.; Cimen, M. Y. B.; Avey, A.; Cimen, O. B.; Buyukkocak, S.; Ozbek, H.; Durak, I.
- Aspirin impairs the antioxidant system and causes peroxidation, A202
- Kacprzak, M.**
—; Lewandowska, I.; Balinska, M.; Paszewski, A.
Pleiotropic effects of mutation in the methionine synthase gene in *Aspergillus nidulans* A194
- Kaczanowski, Sz.**
—; Zielenkiewicz, P.
Log-odds scoring matrices calculated from designed protein sequences, A261
- Kad, N.**
—; McParland, V.; Smith, D.; Brown, A.; Hunter, M.; Radford, S.
From native state to amyloid: an investigation into partial unfolding of β -2 microglobulin, A68
- Kader, J.-C.**, See Marcel, G. C. F.
- Kadler, K.**, See Trotter, J. A.
- Kadler, K. E.**, See Bulleid, N. J.
- Kadowaki, T.**
—; Molecular pathogenesis of Type 2 diabetes mellitus and obesity in knockout mice models, A104
- Kadura, I.**, See Hadden, T. J.
- Kadykov, V. A.**, See Baranova, E. N.; Kononenko, N. V.
- Kaffarova, S. A.**
—; Alkane degrading microorganisms isolated from the Caspian Sea, A229
- Kageyama, K.**, See Ihara, Y.
- Kahmann, U.**, See Schwabe, T. M. E.
- Kahn, N. N.**
—; Sinha, A. K.; Bauman, W. A.
Prostacyclin receptor antibody: a possible marker for cardiovascular disease, A157
- Kajino, T.**
—; Ohto, C.; Muramatsu, M.; Obata, S.; Yamada, Y.; Takahashi, H.
A protein disulfide isomerase gene fusion expression system that suppresses the aggregation of heterologous proteins, A215
- Kajita, Y.**, See Hosokawa, Y.
- Kajiwara, T.**, See Koeduka, T.; Matsui, K.
- Takeki, K.**, See Kawabata, A.
- Kakumoto, M.**, See Sato, K.-I.
- Kalaria, R.**, See Beher, D.
- Kallioniemi, O.-P.**, See Daniels, R. H.
- Kalnins, U.**, See Tretjakovs, P.
- Kalousek, F.**, See Gakh, O.
- Kalousek, I.**
—; Krizkova, P.
Activity of the UBF gene during the first cell division cycle of PHA stimulated lymphocytes, A173
- Kalverda, A. P.**, See Hilcenko, C.
- Kamalinejad, M.**, See Sabzevari, O.
- Kambadur, R.**, See Jeanplong, F.
- Kamei, D.**, See Yamada, M.
- Kameoka, M.**, See Tanaka, Y.
- Kamińska, J.**, See Gajewska, B.
- Kaminska, J.**
—; Koscielak, J.
Effect of neutrophils upon release of alpha-6-fucosyltransferase from human platelets, A335
- Kamisaka, Y.**
—; Noda, N.
Intracellular transport of phosphatidic acid and phosphatidylcholine into lipid bodies: use of fluorescent lipids to study lipid-body formation in an oleaginous fungus, 723
- Kamisoyama, H.**, See Hasegawa, S.
- Kampan, J.**, See Yongvanit, P.
- Kanaeva, I. P.**, See Archakov, A. I.
- Kanagawa, M.**
—; Watanabe, S.; Kaya, S.; Nakamura, Y.; Umezu, H.
- Imagawa, T.; Shimada, A.; Taniguchi, K.
Characterization of enzyme systems responsible for reversible phosphorylation of Tyr and Ser residues of H/K-ATPase α -chain, A430
- Kanai, D.**, See Yamaryo, Y.
- Kane, M.**, See Flanagan, A. F.
- Kanehisa, M.**
—; Genomic perspectives of microbial metabolism and regulation, A121
- Kaneko, H.**
—; Obuchi, K.; Horikoshi, K.
Differential scanning calorimetry study on the inner membrane lipids prepared from barotolerant *Pseudomonas* sp. BT1, A397
- Kaneko, S.**, See Fujimoto, Z.
- Kaneko, T.**, See Sasaki, Y.
- Kaneko, Y.**, See Koyanagi, T.
- Kanellos, T.**
—; Partidos, H.; Russell, P. H.; Howard, C. R.
Evaluation of the immunomodulatory/immunostimulatory effect of CpG and GM-CSF in both higher and lower vertebrates, A492
- Kanematsu, T.**, See Takeuchi, H.
—; Yoshimura, K.; Akaike, N.; Nakayama, K.; Hirata, M.
The Possible role of p130, a new Ins(1,4,5) P_3 binding protein, related to GABA receptor signaling in hippocampal neurons, A358
- Kang, B. Y.**, See Kim, K. T.
—; Kim, K. T.; Han, Y. H.; Park, J. M.; Lee, C. C.
The association between the DNA sequence variations of lipoprotein lipase gene and Korean essential hypertensives, A157
- Kang, C.**, See Kang, I.
- Kang, C. D.**
—; Ahn, B. K.; Jeong, C. S.; Kim, K. W.; Lee, H. J.; Yoo, S. D.; Chung, B. S.; Kim, S. H.
The multidrug-resistant FM3A/M cells overexpressing Pgp develop the resistance to Pgp-unrelated drugs via downregulation of JNK/SAPK activity, A376
- Kang, I.**, See Kim, S. S.
—; Hong, F.; Lee, D. J.; Kim, S. S.; Ha, J.; Sohn, N. W.; Kang, C.
Insulin-like growth factor-1 protects H9c2 cardiac myoblasts from hydrogen peroxide-induced apoptosis via PI 3-kinase and ERK pathways, A276
- Kang, I. S.**, See Ha, J.
- Kang, J. H.**, See Jung, K. K.
- Kang, S. Y.**, See Jung, K. K.
- Kang, W. Y.**, See Jun, X.
- Kanke, T.**, See Scatter, M. J.
—; MacFarlane, S.; Scatter, M. J.; Davenport, E.; Scott, G.; Hunter, G.; Paul, A.; Plevin, R.
Differential regulation by PKC isotypes in activation of c-Jun N-terminal kinase (JNK) and p38 MAP kinase mediated by proteinase-activated receptor-2 (PAR-2), A267
- Kanno, T.**, See Utsumi, K.
- Kao, K. R.**, See Lake, B. B.
- Kao, M. C.**, See Shyu, W. C.
- Kapas, S.**, See Doufexis, M.; Hagi-Pavli, E.; Zihni, C.
—; Bansal, A.; Bhargava, V.; Maher, R.; Mali, D.; Hagi-Pavli, E.; Allaker, R. P.
Increased expression of adrenomedullin in pathogen-challenged oral epithelial cells, A231

- Kaplan, B.**, See Arazi, T.
Kapoor, V. K., See Singh, M. K.
Kapp, E., See Gostick, D.
Karaayvaz, M., See Durak, I.; Kacmaz, M.
Karakasis, N., See Kotoula, V.
Karasaki, Y.
 —; Tsukamoto, S.; Mizusaki, K.; Sugiura, T.; Gotoh, S.
 A garlic lectin inhibited the growth of human tumor cells, A403
Karimova, F. G., See Tarchevsky, I. A.
Karin, M.
 —; From inflammation to skin biology: protein kinase cascades that control NF- κ B activity, A119
Karlgren, S., See Bill, R. M.
Karlyshev, A. V.
 —; Oyston, P. C.; Williams, K.; Titball, R. W.; Davis, R.; Winzeler, E. A.; Wren, B. W.
 Development of high-density DNA array based signature-tagged mutagenesis and its application for the discovery of novel *Y. pseudotuberculosis* virulence-associated genes, A232
Karnaukhova, S., See Koval, V.
Kárová, B., See Křepela, E.
Karplus, M.
 —; Protein folding: insights from simulations, A52
Karpunina, L. V., See Kireev, R. A.
Karst, F., See Grabinska, K.; Szkopinska, A.
Karvonen, U., See Jänne, O. A.
Kasahara, M., See Kasahara, T.
 —; Maeda, M.; Hayashi, S.; Mori, Y.; Abe, T.
 Compound heterozygous mutation of Na⁺/glucose cotransporter (SGLT1) gene in a Japanese patient with congenital glucose-galactose malabsorption (GGM), A391
Kasahara, T., See Sonoda, Y.
 —; Kasahara, M.
 Interaction between the critical aromatic amino acid residues Tyr-352 and Phe-504 in the yeast Gal2 transporter, A391
Kasai, N., See Torimitsu, K.
Kasche, V., See Ignatova, Z.
Kashparov, I. V., See Popov, M. E.
Kashparov, I. V., See Ruzhenikov, S. N.
Kashulin, P. A.
 —; Merzlyak, M. N.; Zhiboedov, P. M.; Zhirov, V. K.
 Extremely rapid effects of polyunsaturated fatty acids and *N*-acetylglucosamine on free-radical metabolism in cultured potato plant cells, 865
Kasimirko, N. K., See Flegontova, V. V.
Kask, I., See Lushnikov, A.
Kasper, C. B., See Hubbard, P. A.
Kassim, S. K., See Khalil, F. K.
Kasuga, M., See Inagaki, K.; Takada, T.
Kataki, A., See Armakolas, A.
Katano, Y., See Kumazawa, T.
Katanuma, N., See Nagamune, H.
Katavic, V.
 —; Friesen, W.; Barton, D. L.; Gossen, K. K.; Giblin, E. M.; Luciw, T.; An, J.; Zou, J.; MacKenzie, S. L.; Keller, W. A.; Males, D.; Taylor, D. C.
 Utility of the *Arabidopsis* *FAEI* and yeast *SLCI1* genes for improvements in erucic acid and oil content in rapeseed, 935
Katcoff, D. J., See Garber, N. C.
Kato, K., See Okuyama, H.
Kato, M., See Ishizuka, M.
Kato, R., See Nakagawa, N.
Katoh, S., See Tomomura, A.; Yamada, H.
Katopodi, T., See Kotoula, V.
Katunuma, N., See Ohkura, K.
Katze, M. G., See Tan, S.-L.
Kaulen, A., See Siletsky, S.
Kaushik, N.
 —; Agnihotri, A.
 GLC analysis of Indian rapeseed-mustard to study the variability of fatty acid composition, 581
 —; Vir, S.
 Variations in fatty acid composition of neem seeds collected from the Rajasthan state of India, 880
Kaviratne, M.
 —; Khan, S.; Jarra, W.; Preiser, P.
 Analysis of the *stevor* multigene family of *Plasmodium falciparum*, A487
Kavutcu, M., See Öztürk, H. S.
Kawabata, A.
 —; Kinoshita, M.; Morimoto, N.; Nishikawa, H.; Kuroda, R.; Araki, H.; Kakehi, K.
 Modulation by protease-activated receptor-2 (PAR-2) of sublingual and gastric mucosal mucin secretion in the rat, A351
Kawabuchi, M., See Matsuki, T.
Kawada, T., See Satake, H.
Kawai, A., See Hiraga, K.
Kawai, S.
 —; Expression of Jak/Stat signaling system in a HL60 variant cell resistant to C₂-ceramide (HL60CF) is affected by perturbation in the membrane, A358
Kawamata, K., See Iwadate, H.
Kawamoto, S., See Matsubara, K.
Kawamura, A., See Sandy, J.; Upton, A.
Kawamura, H., See Yamada, M.
Kaya, K., See Hori, K.
Kaya, S., See Abe, K.; Imagawa, T.
Kaya, S., See Kanagawa, M.
Kearns, P., See Ryan, J. P.
Kearsey, M. J., See Wilkes, T. M.
Kedzia, A., See Obrepalska, A.
Kedzierska, S., See Matuszewska, E.
 —; Jezierski, G.; Matuszewska, E.; Taylor, A.
 Reactivation of thermally denatured *E. coli* FBP aldolase by molecular chaperones: DnaKJ, GroEL/ES and ClpB, A411
Kee, W. J., See Hughes, J. P.
Keen, C., See Birkett, S. D.
Keijer, J., See Koks, P. D.
Keinänen, K. P., See Schmidt, M. C.
Keith, G., See Przykorska, A.
Keller, M., See Steel, C. C.
Keller, N., See Hemphill, A.
Keller, W. A., See Katavic, V.
Kelley, L. P.
 —; Kinsella, B. T.
 Investigation of the role of N-linked glycosylation of the human thromboxane A₂ receptor, A34
Kelliher, M., See Carmody, M.; Jennings, R.
 —; O'Neill, C.
 Enrichment of full-length presenilin (PS) proteins in human brain soluble fractions: reduced levels of PS-2 in these fractions in Alzheimer's disease brain, A35
Kelloff, G.
 —; Molecular target based discovery and development of chemopreventive drugs, A142
Kelly, J. W.
 —; Structure-based design, synthesis and evaluation of amyloid fibril inhibitors, A51
Kelly, M. T.
 —; Butler, G.; Newsholme, P.
 Potential role of extracellular L-glutamine in the host immune response to yeast infection, A255
Kelly, S. M., See Cerasoli, E.
Kelly, T. A.
 —; O'Sullivan, A.
 Dengue virus infection of human endothelial and epithelial cells results in pro-inflammatory cytokine induction and viral persistence, A28
Kemp, B., See Mathur, A.
Kemp, G. J.
 —; Studying metabolic regulation in human muscle, A8, 100
Kempa, S., See Fuerst, D. O.
Kendrick, T. S.
 —; Lipscombe, R. J.; Bogoyevitch, M. A.
 Use of cell-permeable peptides to identify proteins interacting with phosphorylated tyrosine-763 of the granulocyte colony-stimulating factor receptor, A461
Kendrick-Jones, J.
 —; Molecular motors and the cytoskeleton, A118
Keniry, M. A., See Dixon, N. E.
Kennedy, D. O., See Moffatt, J.
Kenny, M.
 —; O'Neill, C.
 Selective impairment of the soluble neuronal nitric oxide synthase enzyme in Alzheimer's disease brain, A36
Kenny-Walsh, E., See Mullan, B. M.
Keppeler, D.
 —; Export pumps of the multidrug resistance protein (MRP) family mediating the release of conjugates with glutathione, glucuronate or sulphate from cells, A6
Keren, T.
 —; Roth, M. G.; Henis, Y. I.
 Binding of HA mutants containing internalization signals to AP-2 at the cell surface: evidence for stable association with clathrin-deficient multivalent AP-2 complexes, A351
Kerr, D., See Khattab, A. D.
Kershanskaya, O. I.
 —; Physiology-biochemical and molecular biological aspects of optimal photosynthetic wheat plant type, A404
Kessel, A.
 —; Cafiso, D. S.; Ben-Tal, N.
 Continuum solvent model calculations of alamethicin-membrane interactions: thermodynamic aspects, A147
Keyhani, E., See Einollahi, N.
Keyhani, E., See Golkhoo, Sh.
Keyhani, E., See Keyhani, J.; Minai-Tehrani, D.
 —; Golkhoo, Sh.; Lashgarblooki-Livani, T.; Nezami-Ghorbani, A.
 Purification and kinetic properties of catalase from *Salmonella typhimurium* and *Paracoccus denitrificans*, A313
Keyhani, J.
 —; Ahadi, M.; Keyhani, E.
 Detection of anti-dsDNA IgG in DLE patients by an electrophoretic mobility shift assay and by ELISA, A158
Khaduev, S. Kh., See Berezov, T. T.
Khafagy, E. Z.
 —; El-Fattah, M. M. A.; Sabri, G. M.; El-Kader, A. H. A.
 Studies on camel pancreatic lipase and colipase, A313
Khajeh, K.
 —; Nemat-Gorgani, M.

- Proteolysis of mesophilic and thermophilic α amylases; a comparative study, A418
- Khalifa, A.**, See Eissa, S.; El-Ahmady, O.; Khalil, F. K.
- ; Eissa, S.; Swelam, M.; Shaker, Y.; Abdel Fattah, M.
Expression of p21WAF1/CIP1 in bladder cancer: relations to schistosomiasis, A368
- Khalil, F. K.**
- ; Khalifa, A.; Al Rassad, M. M.; Kassim, S. K.; Al Sobky, E. S.; Fawzy, H.
Telomerase activity, and tissue polypeptide specific antigen (TPS) in Egyptian breast cancer patients, A222
- Khampitak, T.**, See Boonsiri, P.
- Khan, A.**, See Lewis, P. N.
- Khan, A. P.**, See Pasha, M. A. Q.
- Khan, I. M.**, See Wynn, S. L.
- Khan, S.**, See Kaviratne, M.
- Khan, S. Z.**
- ; Dyer, J. L.; Michelangeli, F.
The effects of calmodulin antagonists on the cerebellar inositol 1,4,5-trisphosphate receptor, A285
- Khanna, N.**
- ; Tuteja, N.; Singh, N.
Isolation of cDNA clones associated with apoptosis in rat thymocytes, A376
- Khattab, A. D.**
- ; Ali, I. S.; Dils, R. R.; Darke, S.; Kerr, D.; Jenkinson, D.; Allen, S.; Rana, M. Z.
Longitudinal study of the relationship between glycaemia peripheral arterial disease and mortality in diabetic patients, A155
- Khazina, E. B.**, See Bozhenok, L. N.
- Khoo, H. E.**, See Nirthanan, S.
- Khorana, H. G.**, See Allen, S. J.
- Khoury, R.**
- ; Gage, P. W.; Hammarström, A. K. M.
Nitric oxide modulates the persistent sodium current in inside-out patches from rat ventricular myocytes, A461
- Khozin-Goldberg, I.**, See Cohen, Z.
- Kibenge, F. S. B.**, See Cepica, A.
- Kicińska, A.**
- ; Szewczyk, A.
Expression and purification of mitochondrial Na^+/H^+ exchanger, A462
- Kiechl, S.**, See Perschinka, H.
- Kierzek, A.**, See Plochocka, D.
- Kierzek, A.**, See Skowronski, K.
- Kietchusakul, P.**, See Boonsiri, P.
- Kihlmark, M.**, See Pooga, M.
- Kikkawa, Y.**, See Sindhu, R. K.
- Kikuchi, A.**
- ; Regulation of β -catenin signalling in Wnt pathway, A128
- Kilincer, S.**, See Bozkurt, A. I.
- Killard, A. J.**
- ; Smyth, M. R.; Grennan, K.; Micheli, L.; Palleschi, G.
Rapid antibody biosensor assays for environmental analysis, 81
- Kille, P.**, See Edlin, D. A. N.; Price, I. K.
- Kilmartin, J.**
- ; Identification of yeast mitotic spindle proteins by MALDI mass spectrometry, A118
- Kim, A. A.**, See Shamansurova, Z. M.
- Kim, D.-H.**, See Lee, D. G.
- Kim, D.-J.**
- ; Delorme, V.; McCabe, P. F.; Leaver, C. J.
Cucumber matrix metalloproteinase gene and the gene expression during senescence, A173
- Kim, H.**
- ; Kim, J.; Kim, S. H.; Cha, J.; Kim, K.; Ahn, Y.
Identification and functional characterization of peroxisomal proliferator activated receptor response element in rat GLUT2 promoter, A178
- Kim, H.-H.**
- ; Shin, J. H.; Lee, Z. H.
RANK recruits multiple TRAF family adaptors and activates c-Jun N-terminal kinase and NF- κ B, A277
- Kim, H. I.**, See Cha, J.-Y.
- Kim, H.-P.**, See Yim, M. B.
- Kim, H. Y.**
- ; Hahm, D. H.; Yeom, M. J.; Lee, E. H.; Oh, J. S.; Shim, I.; Lee, H. J.
Scutellariae radix as a novel antibacterial herb targeting *ppk* (polyphosphate kinase) of *Salmonella typhimurium*, A194
- Kim, I.-S.**
- ; Lee, I.-H.; Lee, J.-H.; Lee, S.-Y.
Biosynthesis of haptoglobin by all-*trans* retinoic acid in THP-1 human monocytic cell line, A255
- Kim, J.**, See Kim, H.; Kim, S. S.
- Kim, J.**, See Kim, T. D.
- Kim, J.-H.**
- ; Oh, D.-Y.; Han, J.-S.
Phosphatidylcholine-specific phospholipase C and RhoA are involved in thyrotropin-induced activation of phospholipase D in FRTL-5 thyroid cells, A359
- Kim, J. H.**, See Roh, T.
- Kim, J.-I.**, See Lee, J.-S.
- Kim, J. J.-P.**, See Hubbard, P. A.
- Kim, J.-M.**, See Allen, S. J.
- Kim, J. M.**, See Ha, J.
- Kim, J. M.**, See Kim, S. S.
- Kim, J.-S.**, See Chang, S.-I.
- Kim, K.**, See Kim, H.
- Kim, K. S.**, See Cha, J.-Y.; Moon, Y. A.
- Kim, K. T.**, See Kang, B. Y.
- ; Kang, B. Y.; Yoon, S. Y.; Bae, J. S.; Yoon, T. J.; Lee, C. C.
Two DNA polymorphisms of apolipoprotein(a) gene in Korean essential hypertensives, A158
- Kim, K. W.**, See Kang, C. D.
- Kim, M.**, See Roh, T.
- Kim, S. H.**, See Jung, K. K.; Kang, C. D.; Kim, H.
- Kim, S.-Ho.**, See Lee, W.-J.
- Kim, S. J.**, See Sohn, B. H.
- Kim, S. S.**, See Ha, J.
- Kim, S. S.**, See Hong, F.; Kang, I.
- ; Kim, J.; Kwon, S.; Moon, K.; Lee, I.; Choi, S. L.; Kim, J. M.; Hong, F.; Chun, Y.; Kang, I.; Ha, J.
PI3-kinase activates p38 MAPK independently of PKB/Akt during myogenic differentiation of H9c2 cardiac myoblasts, A292
- Kim, S. Y.**, See Park, H. S.
- Kim, T. D.**
- ; Yang, Ch.h.; Kim, J.
Heat-induced structural changes of proteins, A411
- Kim, T. G.**, See Jung, K. K.
- Kim, T. Y.**, See Sohn, B. H.
- Kim, Y.-S.**, See Han, J.-S.
- Kim, Y.-S.**, See Lee, W.-J.
- Kim, Y.-S.**, See Shin, I.
- Kimber, I.**, See Orphanides, G.
- ; Genomic analyses of the molecular bases for toxic responses, A141
- Kimoto, M.**, See Sato, K.-I.
- Kimura, M.**, See Park, S.-S.
- Kindl, H.**, See Porschewski, P.
- King, A.**, See Loke, Y. W.
- King, G. J.**, See Teakle, G. R.
- King, L. A.**, See Lee, A.
- King, M. D. A.**, See Roobol, A.
- King, N.**
- ; McGiven, J. D.; Suleiman, M. S.
Expression and function of glutamate/aspartate transporter, EAAC-1, in rat heart, A391
- Kini, R. M.**, See Balaji, R. A.
- Kini, R. M.**, See Gao, R.
- Kini, R. M.**, See Rao, V. S.
- Kinoshita, M.**, See Kawabata, A.
- Kinsella, B. T.**, See Kelley, L. P.
- Kipnis, T. L.**, See Lasunskaja, E. B.
- Kirakossian, G.**, See Markarian, S.
- Kireev, R. A.**
- ; Yegorova, Y. V.; Kurmacheva, N. A.; Melnikova, U. Y.; Karpunina, L. V.
Effect of lectins on the free-radical processes in erythrocyte membranes in insulin dependent diabetes mellitus (IDDM), A397
- Kirk, C.**, See Hughes, P.
- Kirkhan, S.**, See Patrakitkomjorn, P.
- Kirkman-Brown, J. C.**
- ; Barratt, C. L. R.; Publicover, S. J.
Direct evidence of functional L-type Ca^{2+} channels in human spermatozoa, A392
- Kirschner, M.**, See Heerklotz, D.
- Kirti, P. B.**, See Vageeshbabu, H. S.
- Kiss, K.**, See Fábíán, Zs.
- Kistowska, M.**, See Fik, E.
- Kitani, S.**, See Teshima, R.
- Kitano, K.**, See Sugase, K.
- Kitano, K.**
- ; Maeda, N.; Atomi, H.; Imanaka, T.; Miki, K.
Crystal structure of new class Rubisco from *Thermococcus kodakaraensis* KOD1 with pentagonal symmetry, A418
- Kitaoka, M.**, See Selvakumar, P.
- Kiuchi, K.**, See Xiao, H.
- Kivirikko, K. I.**, See Myllyharju, J.
- Kiviriko, K.**, See Russell, S. J.
- Kizaki, T.**, See Ohno, H.
- Kizuki, K.**, See Iwadate, H.
- Kjer-Nielsen, L.**, See van Vliet, C.
- Kjovkarovska-Dinevska, S.**
- ; Mitev, S.; Miova, B.
Hepatic pyruvate kinase activity in thyroidectomized heat-acclimated rats, A194
- Kleanthous, C.**, See Capaldi, A.; Gorski, S.
- Kleibl, Z.**, See Pohlreich, P.
- ; Novotny, J.; Vedralova, J.; Petruzelka, L.; Pohlreich, P.; Matous, B.; Stribrna, J.; Janku, F.
Mutations in K-ras and c-erbB2 expression in pancreatic cancer samples from archival tissue samples, A222
- Kleikamp, S.**, See Lawrenson, I.
- Klein, N.**, See Uronen, H.
- Klein, N. J.**, See Dixon, G. L. J.
- Klimašauskas, S.**, See Merkiene, E.; Serva, S.
- Klimova, S. V.**, See Martinova, E. A.
- Kloeckner, T.**, See Hassan, P.
- Knight, C. G.**, See Emsley, J.; Onley, D. J.
- Knight, G. L.**, See Mullins, J. G. L.
- ; Antoniw, J. F.; Sarakinou, K. S.; Mullins, J. G. L.
The ileal active bile acid transport protein works bidirectionally: evidence that it is structurally evolved for two distinct functions, A42
- Knoll, W.**, See Yeung, C. K.
- Knorre, D. G.**, See Bozhenok, L. N.

- Knowles, P. F.**, See Allardyce, C.; Firbank, S. J.; Kurtis, C.; Wilmot, C. M.
- Knox, K.**, See O'Gorman, D.
- Knudsen, C. R.**, See Mansilla, F.
- Knuepfer, E.**
—; Smith, D. F.
SHERP, a novel protein expressed in infective stages of the protozoan parasite *Leishmania*, A352
- Knuutila, S.**, See Lushnikova, T.
- Ko, J. H.**, See Choi, J. G.
- Ko, Y.-G.**, See Lee, J.-S.
- Kobets, N. D.**, See Bozhenok, L. N.
- Kobiela, A.**
—; Kobiela, K.; Trzeciak, W. H.
Influence of the transcription factor LEF-1 on the expression of the *EDA* gene, A462
Role of the *MSX1* gene in the formation of tooth buds, A462
- Kobiela, K.**, See Kobiela, A.
- Kocabyřik, S.**
—; Erdem, B.; Özdemir, Ý.
Differential amplification of 16 S rDNA sequences of *Archaea* and bacteria from solfataric hot springs in Turkey, A180
- Kocabyřik, S.**, See Erduran, I.
- Koch, C.**, See Laich, A.
- Kodaka, A.**, See Ohgi, K.
- Koeduka, T.**
—; Matsui, K.; Akakabe, Y.; Kajiwara, T.
Molecular characterization of fatty acid α -hydroperoxide-forming enzyme (α -oxygenase) in rice plants, 765
- Koehler, C.**
—; Biogenesis of the mitochondrial inner membrane, A127
- Koes, R.**, See Verwoert, I.
- Koh, E. H.**, See Roh, T.
- Koh, S. S.**, See Stallcup, M. R.
- Kohama, K.**, See Tanokura, M.
- Kohl, L.**, See Bastin, P.; Moreira-Leite, F. F.
- Kohlmann, M.**, See Weichert, H.
- Koistinen, H.**
—; Koistinen, R.; Easton, R. L.; Dell, A.; Morris, H. R.; Seppälä, M.
Differences in glycosylation of glycodelin-A between individuals, A335
- Koistinen, R.**, See Koistinen, H.
- Kojima, A.**, See Moffatt, J.
- ; Ichikawa, H.; Takami, N.; Matsui-Yuasa, I.
The role of zinc in proliferation and activation in hepatic stellate cells, A158
- Kojima, M.**
—; Sim, R. B.
Regulation of human MBL-MASPs by C1-inhibitor and α_2 -macroglobulin, A492
- Kok, J.**, See Aleksandrak, T.
- Koks, P. D.**
—; Keijer, J.
Development of biological effect assays for GPCR mediated processes in yeast, A268
- Kolbe, A.**, See Weichert, H.
- Kolesnichenko, L. S.**
—; Gorina, A. S.
Amino acids and their metabolites in blood serum and urine in minimal cerebral dysfunction and epilepsy, A158
- Kolesnikova, I. N.**, See Komisarenko, S. V.
- Kolettas, E.**
—; Evangelou, A.; Bonanou-Tzedaki, S.; Gonos, E. S.
Thermal responses and cell survival of a spontaneously immortalised human keratinocyte cell line and oncogene-expressing lines derived from it: role of heat shock proteins and clusterin/apoJ, A373
- Komano, T.**, See Sakai, H.; Yamagiwa, M.
- Komarova, Y.**, See Guzhova, I.
- Komath, S. S.**, See Vasudha, S.
- Komatsu, S.**, See Rakwal, R.
—; Zhang, Z.; Rakwal, R.
Gibberellin signalling catalyzed by protein phosphorylation in rice, A276
- Komisarenko, S. V.**
—; Lougovskoy, E. V.; Kolesnikova, I. N.
New site of fibrin polymerization and neoantigenic determinant in DD-dimer fragment of fibrin, A419
- Kondhat, J.**, See Juntawong, N.
- Kondo, T.**, See Ihara, Y.
- Kononen, J.**, See Daniels, R. H.
- Kononenko, N. V.**, See Baranova, E. N.
—; Baranova, E. N.; Kadykov, V. A.
Characterization of the cell death process in line M3 and B16 mouse melanoma cells induced by low positive temperatures and photosensibilisator, A377
- Konopasek, B.**, See Pohlreich, P.
- Konopka, M. A.**
—; Young, T. W.
The role of the C-terminus in *Bacillus subtilis* inorganic pyrophosphatase activity, A313
- Konstadoulakis, M. M.**, See Armakolas, A.
- Konstantinov, A.**, See Siletsky, S.
- Konstantinova, I. M.**, See Mittenberg, A. G.
- Kontani, Y.**, See Matsuda, K.
- Koob, T. J.**, See Trotter, J. A.
- Koob-Emunds, M. M.**, See Trotter, J. A.
- Kop, E. P.**, See Teakle, G. R.
- Kopecký, J.**, See Brauner, P.
- Kopen, G.**, See Prockop, D. J.
- Koprowski, P.**
—; Fikus, M. U.; Mieczkowski, P.; Ciesla, Z.
Overproduction of Din7p in *Saccharomyces cerevisiae* results in the destabilisation of the mitochondrial DNA, A165
- Korf, J. E.**
—; Lombard, D. C.; Stoltz, A. C.; Verschoor, J. A.
How suitable are South African baboons as experimental animals for human infectious diseases?, A235
- Kornfeld, G. D.**, See Cubeddu, L.
- Kornilova, S.**, See Hackl, E.
- Korniotis, N.**
—; Wilderspin, A. F.
cAMP-specific phosphodiesterase IV_{A1} expression in a mammalian system, A76
- Korobov, V. P.**, See Titova, A. V.
—; Pan'kova, N. V.; Titova, A. V.; Lemkina, L. M.
Alteration in membrane lipid composition of *Staphylococcus epidermidis* cells under the formation of resistance to high concentrations of cadmium ions, A397
- Korolchuk, V. I.**
—; Makogonenko, E. M.; Cederholm-Williams, S. A.
Location of streptokinase sites interacting with plasminogen during activator complex formation, A202
- Korotchkina, L. G.**, See Patel, M. S.
- Korovob, V. P.**, See Lemkina, L. M.
- Korshunov, S. S.**, See Skulachev, V. P.
- Koscielak, J.**, See Kaminska, J.
- Kostanyan, I. A.**, See Smirnova, E. V.
- Kostecka, A.**, See Latowski, D.
- Kostelidou, K.**
—; Theodorou, V.; Tsikaris, V.; Sakarellos-Daitsiotis, M.; Avramopoulou, V.; Tzartos, S. J.; Sakarellos, C.
Design, synthesis and characterization of photoreactive analogs of the AChR main immunogenic region for anti-MIR mAbs photocrosslinking, A345
- Koster, J.**, See Waterham, H. R.
- Kosterin, P. V.**, See Zakharova, E. A.
- Kostetsky, E. Y.**, See Goncharova, S. N.; Sanina, N. M.
- Kostyukova, A. S.**, See Polosina, Y. Y.
- Kotaja, N.**, See Jänne, O. A.
- Kotake, K.**, See Nakashima, H.
- Kotlarz, A.**
—; Lipinska, B.
Regulation of the *dnaK* model heat shock gene expression in organisms living at different temperatures, A178
- Kotoula, V.**
—; Katopodi, T.; Dimitrakopoulos, J.; Kovatsi, L.; Georgiou, E.; Lazarou, D.; Aetopoulos, G.; Tzimagiorgis, G.; Panagiotidis, C.; Hytioglou, P.; Krakasis, N.; Dimitriadou, A.; Kouidou, S.
Telomerase activity and human papillomavirus (HPV) infection in oral cancer specimens, A223
- Kouidou, S.**, See Kotoula, V.
- Koul, H. K.**, See Koul, S.
—; Koul, S.; Menon, M.; Sekhon, A.; Santosham, V.
Activation of c-Jun N-terminal kinase in renal proximal tubular epithelial cells upon exposure to oxalate, A377
- Koul, S.**, See Koul, H. K.
—; Fu, X.; Menon, M.; Koul, H. K.
Renal proximal tubular epithelial cells (LLC-PK1 and HK-2 cells) in culture undergo apoptosis upon exposure to oxalate, A377
- Koumproglou, R.**, See Wilkes, T. M.
- Kourai, H.**, See Nagamune, H.; Ohkura, K.
- Kourov, S. V.**, See Sveshnikov, A. A.
- Kouzarides, T.**
—; Acetylation as a multi-functional modification, A62, A114
- Kovacs, K. L.**, See Takacs, M.
- Koval, V.**
—; Pyshnyi, D.; Karnaukhova, S.; Fedorova, O.
Oligonucleotide tandem complex stabilization in the presence of photoactivated and sensitizing groups in the nick region, A249
- Koval, V. V.**, See Fedorova, O. S.
- Kovalyova, Z. V.**, See Ivanova, V. P.
- Kovatsi, L.**, See Kotoula, V.
- Kowalczyk, M.**
—; Loubiere, P.; Bardowski, J.
Induction of lactose catabolism in plasmid-free *Lactococcus lactis* IL1403 strain, A215
- Koyama, T.**, See Ohgi, K.
- Koyanagi, T.**
—; Tatematsu, K.; Kaneko, Y.; Harashima, S.; Tanizawa, K.; Kuroda, S.-i.
Characterization of an RBCK1/Parkin-like RING-IBR protein, yRBCK1, from *Saccharomyces cerevisiae*, A288
- Kozlova, M. A.**, See Lapin, M. V.
- Kozlova, O. V.**
—; Read, N. D.

- Analyses of calcium signalling in *Aspergillus* expressing recombinant aequorin, A277
- Krasinskaya, I. P.**, See Lapin, M. V.
- Krasotkina, Y. V.**
- ; Ovanesov, M. V.; Ataulakhanov, F. I.
- Evidence that the primary destination of the intrinsic coagulation pathway is to provide the propagation of clotting, A328
- Krause, D.**, See O'Connor, R.
- Kravetskaya, T. P.**, See Shevelev, I. V.
- Křepela, E.**
- ; Procházka, J.; Liu, X.; Kárová, B.; Čermák, J.; Křepelová, A.
- Procaspase-3 expression and activation in non-small cell lung carcinoma, A377
- Křepelová, A.**, See Křepela, E.
- Kretzschmar, A. K.**, See Esser, D.
- Kreuzer, M. P.**
- ; O'Sullivan, C.K.; Guilbault, G. G.
- Development of a biosensor to detect contamination of shellfish with dinoflagellate toxins, A44
- Krivchenko, A. I.**, See Ivanova, V. P.
- Krizkova, L.**
- ; Petrasek, J.; Zazimalova, E.
- Transformation of *in vitro* cultured tobacco cells via *Agrobacterium*, A210
- Krizkova, P.**, See Kalousek, I.
- Krohn, N. M.**
- ; Lichota, J.; Merkle, T.; Röttgers, K.; Stemmer, C.; Grasser, K. D.
- The maize structure-specific recognition protein SSRP1, A250
- Krokan, H.**
- ; Molecular anatomy and physiology of the DNA repair enzyme uracil-DNA glycosylase, A101
- Krokoszynska, I.**, See Grzesiak, A.
- Krol, J.**, See Fiszer-Kierzkowska, A.
- Kroon, J.**, See Slabas, A. R.
- Kroon, J. T. M.**, See Hayman, M. W.
- Krowarsch, D.**, See Grzesiak, A.
- Krubasik, P.**
- ; Sandmann, G.
- Molecular evolution of lycopene cyclases involved in the formation of carotenoids with ionone end groups, 806
- Krüger, D. H.**, See Mücke, M.; Reich, S.
- Krulp, J.**, See Schwabe, T. M. E.
- Kruk, J.**, See Jemiola-Rzemieńska, M.
- Kruszewska, J. S.**
- ; Saloheimo, M.; Penttilä, M.; Palamarczyk, G.
- Transcription of mannose metabolism genes relates to protein secretion in *Trichoderma reesei*, A336
- Krut'yakov, V. M.**, See Shevelev, I. V.
- Krwawicz, J.**
- ; Pietrzykowska, I.
- DNA sequence analysis of λ susO₈ revertants induced by MMS under nonpermissive conditions for phage DNA replication, A165
- Krysanova, J. S.**, See Ishchenko, A. A.
- Kubis, S. E.**
- ; Rawsthorne, S.
- The role of plastidial transporters in developing embryos of oilseed rape (*Brassica napus* L.) for fatty acid synthesis, 665
- Kuchanny-Ardigó, D.**
- ; Lipinska, B.
- Characterization of the *groE* heat shock operon of marine bacterium *Vibrio harveyi*, A250
- Kucherenko, M. E.**, See Matyshevska, O. P.
- Kuczara, E.**
- ; Zurawa, D.; Skorko-Glonek, J.; Lipinska, B.
- The role of various cellular proteases and the chaperone DnaK in the defence of the bacterium *Escherichia coli* against oxidative stress, A325
- Kuczynska-Wisnik, D.**
- ; Laskowska, E.; Wilczewska, I.; Taylor, A.
- The use of operon and gene fusions in studies of regulation of the *ibpAibpB* operon, A173
- Kudin, A.**, See Vielhaber, S.
- Kudo, M.**, See Iwadate, H.
- Kühn, H.**, See Horning, E.
- Kuis, W.**, See Waterham, H. R.
- Kukalev, A. S.**, See Goloudina, A. R.
- Kulig, A.**, See Smolarz, B.
- Kuligowska, E.**, See Przykorska, A.
- Kulinsky, V. I.**
- ; Medvedev, A. E.
- Regulation of mitochondrial functions by catecholamines and cAMP, A277
- Kultchikova, V. A.**, See Mittenberg, A. G.
- Kulkarni, A. B.**, See Veeranna, P. S.
- Kulyté, A.**
- ; Zuklys, S.; Gineitis, A.; Holländer, G. A.; Magnusson, K.-E.
- Identification of differentially expressed gene sequences along granulocytic differentiation of promyelocytic HL60 cells, A174
- Kulyte, A.**, See Treigyte, G.
- Kumar, A.**, See Jain, R. K.
- Kumar, H.**, See Saeed, S. A.
- Kumar, R.**, See Pasha, M. A. Q.
- Kumazawa, T.**
- ; Katano, Y.; Seno, H.; Ishii, A.; Lee, X.-P.; Sato, K.; Suzuki, O.
- Detection of imidazolopyrroloquinoline in human breast milk, A339
- Kumita, J. R.**, See Flint, D. G.
- Kumsars, I.**, See Tretjakovs, P.
- Kumthorujaroen, P.**, See Juntawong, N.
- Kundu, S.**, See Bandyopadhyay, D.
- Kunesová, M.**, See Mikulová, R.
- Kunin, V.**, See Arons, E.
- Kuno, A.**, See Fujimoto, Z.
- Kunst, L.**, See Smith, M.
- ; Clemens, S.; Hooker, T.
- Expression of the wax-specific condensing enzyme CUTI in *Arabidopsis*, 651
- Kunz, W. S.**, See Vielhaber, S.
- ; Muscle fibres: applications for the study of metabolic consequences of enzyme deficiencies in skeletal muscle, A11
- Kupatadze, R. M.**, See Simonishvili, S. O.
- Kuperstein, F.**
- ; Yavin, E.
- Role of Fe²⁺ in β 1-40 induced signal transduction and cell cytotoxicity in cerebral neuron cultures, A431
- Kuptsova, S.**
- ; Markvicheva, E.; Dugina, T.; Chistov, I.; Strukova, S.; Zubov, V.
- Bioencapsulated thrombin and peptides for wound healing, A361
- Kuramitsu, S.**, See Nakagawa, N.
- Kurbanova, I. M.**, See Alirzayeva, E. G.
- Kurg, A.**, See Lushnikov, A.
- Kuridze, K.Sh.**, See Simonishvili, S. O.
- Kuriki, C.**, See Motojima, K.
- Kurimoto, M.**, See Matikainen, S.
- Kurishita, S.**, See Matsui, K.
- Kurmacheva, N. A.**, See Kireev, R. A.
- Kuroda, R.**, See Kawabata, A.
- Kuroda, S.-i.**, See Koyanagi, T.
- Kuroki, Y.**, See Sakai, T.
- ; Sakai, T.; Nisiwaki, C.; Mizuno, H.; Nomura, A.; Furuya, H.; Tobe, M.; Goya, T.; Wakizaka, A.
- Analysis of point mutation sites in p53 gene in methylchoranthrene induced fibrosarcoma cell, A180
- Kurose, K.**
- ; Oka, T.; Nishimura, T.; Adati, N.
- Analysis of differential gene expression in response to estrogen-exposure on early development of *Xenopus laevis*, A386
- Kurotsu, T.**
- ; Hori, K.
- Substrate specificity of gramicidin S synthetase and the analysis of naturally occurring analogues, A206
- Kurtis, C.**
- ; Tambyrajah, W. S.; Murray, J. M.; Saysell, C. G.; Wilmot, C.; Phillips, S. E. V.; Knowles, P. F.; McPherson, M. J.
- Role of a conserved tyrosine residue in *Escherichia coli* copper amine oxidase, A72
- Kusakabe, I.**, See Fujimoto, Z.
- Kushelev, A.**
- ; Pisarzhovsky, S.
- The composition genetical code, A419
- Kusmierek, J. T.**, See Maciejewska, A. M.; Speina, E.
- Kuszczak, D.**
- ; Dziurdzia, I.; Gooday, G. W.; Milewski, S.
- Spectroscopic studies and homology modelling of *Candida albicans* glucosamine-6-phosphate synthase, A315
- Kut, C.**, See Pooga, M.
- Kutuzov, M. A.**, See Andreeva, A. V.
- Kuun, K. G.**, See Byth, H.-A.
- Kuznetsova, L. A.**, See Pertseva, M. N.
- Kwan, C. S. M.**
- ; Ragnauth, C. D.; Baylis, H. A.
- Molecular and functional studies on novel putative calcium channel proteins in *C. elegans*, A392
- Kwon, S.**, See Kim, S. S.
- Labbe, E.**
- ; Letamendia, A.; Attisano, L.
- Cooperative signalling by TGF β and Wnt signalling pathways, A272
- Labbe, M.**, See Jean, L.
- Lacey, H.**, See Aplin, J. D.
- Lackmann, M.**, See Lawrenson, I.
- Lacombe, C.**, See Verdier, F.
- Lacort, M.**, See Martin, C.
- Lagerstedt, J. O.**
- ; Persson, B. L.
- Characterization of heterologues produced Grl G-binding protein from *Saccharomyces cerevisiae*, A199
- Lagodzinska, A.**, See Matuszewska, E.
- Lai, K.**, See Jain, R. K.
- Laich, A.**, See Sim, R. B.
- ; Moffatt, B.; Wong, K. H. N.; Hickling, T. P.; Koch, C.; Sim, R. B.
- Purification of the second component of human complement, C2, by antibody affinity chromatography, A490
- Laigle, A.**, See Djavanbakht, T.
- Lake, B. B.**
- ; Ford, R. L.; Kao, K. R.
- The role of Rel/NF- κ B genes in early *Xenopus* development: Xrel3 is required for normal head patterning, A386
- Lam, A.**, See Pugh, J.
- Lam, D. S. C.**, See Leung, Y. F.
- Lam, V. M. S.**, See Au, S. W. N.
- Lam, W.**, See Cheng, S. H.
- Lambden, P.**, See Samarbaf-Zadeh, A. R.

- Lambert, M. S.**
—; Avella, M. A.; Berhane, Y.; Botham, K. M.
The type of fat in the diet influences the binding and internalization of chylomicron remnants by isolated hepatocytes, S342
- Lambertsson, A.**, See Enerly, E.
- Lamei, A.**, See Rahbar, M.
- Lana, I.**
—; Vergara, A.; Encio, I.
TNF- α -induced down regulation of the human *KE4* gene in HeLa cells, A286
- Landa, A.**, See Jimenez, L.
- Landham, P. R.**
—; McColl, A. J.; Rosanckiewicz, J.; Richmond, W.; Elkeles, R. S.
Low-density lipoprotein (LDL) from Type 2 diabetic subjects induces increased cholesterol ester uptake and synthesis by Hep G2 cells: a possible link between lipoprotein modification and cardiovascular disease?, A94
- Landino, M.**, See Cervello, M.
- Landl, K.**
—; Zechner, R.
Interactive protein partners of the enzyme lipoprotein lipase, A352
- Lane, E.**
—; Lewis, S.; Tomkins, P. T.
Expression of transfected telomerase in primary Sertoli cells and their lifespan, A295
- Langdon, W. Y.**, See Morshead, T. C.
- Lange, P. R.**
—; Graham, I.
Arabidopsis thaliana mutants disrupted in lipid mobilization, 762
- Lange, S. C.**, See Rappu, P.
- Lange, W.**, See Martens, U. M.
- Langel, U.**, See Farquhar, M. J.; Pooga, M.; Soomets, U.
- Langridge, J.**, See Gostick, D.
- Laniel, M.-A.**
—; Characterization of the regulatory elements involved in poly(ADP-ribose) polymerase gene transcription, A445
- Lannfelt, L.**, See Johnston, J. A.
- Lansdorp, P. M.**, See Martens, U. M.
- Lanyi, J.**
—; Structural basis of proton transfers in bacteriorhodopsin, A110
- Lanzavecchia, A.**
—; Regulation of T lymphocyte priming and polarization by dendritic cells, A120
- Lanzer, M.**, See Ademowo, O. G.
- Lapin, M. V.**
—; Gromadsky, K. B.; Kozlova, M. A.; Krasinskaya, I. P.; Yaguzhinsky, L. S.
Barrier function of membrane-bound proteins during the H⁺-transport process in mitochondria, A462
- Laroche, A.**, See Weselake, R. J.
- Larsen, E.**, See Gostick, D.
- Larsen, S.**, See von Wettstein-Knowles, P.
- Larson, T. R.**
—; Graham, I. A.
Application of a new method for the sensitive detection and quantification of acyl-CoA esters in *Arabidopsis thaliana* seedlings and mature leaves, 575
- Lashgarblooki-Livani, T.**, See Keyhani, E.
- Laskey, R.**
—; Control of DNA replication in normal and neoplastic cells, A115
- Laskowska, E.**, See Kuczynska-Wisnik, D.
- Lasunskaja, E. B.**
—; Darieva, Z. A.; Campos, M. N. N.; da Silva, L. M. L.; Kipnis, T. L.; da Silva, W. D.
BCG mycobacteria infection protects J774.G8 murine macrophages from apoptosis, A232
- Latif, F.**, See Sheikh, M. A.
- Latowski, D.**
—; Kostecka, A.; Strzalka, K.
Effect of monogalactosyldiacylglycerol and other thylakoid lipids on violaxanthin de-epoxidation in liposomes, 810
- Lau, K.-F.**, See McLoughlin, D. M.
- Lau, K. F.**, See Lee, K. F.
- Lauc, G.**
—; Photoaffinity glycoprobes—a new tool for the identification of lectins, A443
- Lavender, J. S.**, See White, D. A.
- Lavrenova, S. M.**, See Nalivaeva, N. N.
- Lawatia, K. M.**, See Tanira, M. O. M.
- Lawes, K. P.**
—; Shepherd, D. A. L.; Savva, D.
Ovine cyclophilin B is down-regulated during the maternal recognition of pregnancy, A339
- Lawrenson, I.**
—; Lock, P.; Kleikamp, S.; Moritz, R.; Frecklington, D.; Simpson, R.; Lackmann, M.
Intracellular signalling by EphA3, A277
- Lawson, G.**
—; Bastin, P.; Ersfeld, K.; Gull, K.
The identification of a tripeptide motif necessary for protein targeting to the eukaryotic flagellum, A352
- Lawson, R. A.**, See Usher, L. R.
- Lawton, D. G.**
—; Leary, S. E. C.; Brown, K. A.
Heterologous expression of LcrV and LcrG: proteins critical for the type III secretion system of *Yersinia pestis*, A232
- Lax, A. J.**, See Pullinger, G. D.
- Lazarevski, S.**, See Plaseska-Karanfilska, D.
- Lazaro, E.**, See Remacha, M.
- Lazarou, D.**, See Kotoula, V.
- Lazarus, C.**, See Othman, A.
- Lazdunski, J.**
—; 2P-domain K⁺ channels: structure, physiological functions, pharmacology and therapeutic implications, A135
- Lazou, A.**, See Markou, T.
- Lea, M. A.**
—; Randolph, V. M.; Lee, J. E.; des Bordes, C.
Induction of histone acetylation by some organosulphur compounds including allyl isothiocyanate, allicin and butanethiol, A250
- Leach, M. R.**
—; Williams, D. B.
Mapping of the lectin ERp57-binding and chaperone sites of calnexin and calreticulin, A463
- Leadlay, P.**
—; Antibiotic-producing modular polyketide synthases, A130
- Leadsham, J. E.**
—; Jarvis, S. M.
Cloning purine transporters from wild type and drug-resistant *Trypanosomes*, A482
- ; Rolfs, N.; Jarvis, S. M.
Cloning the P₂ adenosine transporter homologue of drug-sensitive and drug-resistant strains of *Trypanosoma equiperdum*, A92
- Leary, S. E. C.**, See Lawton, D. G.
- Leaver, C. J.**, See Kim, D.-J.
- Lebedev, A. A.**, See Schröder, E.
- Le Bouteiller, P.**
—; HLA-G in the human placenta: expression and potential functions, 208
- ; HLA-G in the placenta: where and what for?, A19
- Leckie, C. P.**, See McAinsh, M. R.
- Ledo, F.**, See Carrión, A. M.
- Lee, A.**
—; Goode, D.; King, L. A.
Baculovirus expression of recombinant β B-crystallin in insect cells confers significant protection from heat-shock, A73
- Lee, A. G.**, See Twine, S. M.
- Lee, C. C.**, See Kang, B. Y.; Kim, K. T.
- Lee, D. G.**
—; Kim, D.-H.; Seo, M. Y.; Jang, S. Y.; Hahm, K.-S.
Antifungal mechanism of Ib-AMPI against *Candida albicans*, A206
- Lee, D. J.**, See Kang, I.
- Lee, E. H.**, See Kim, H. Y.
- Lee, H. J.**, See Kang, C. D.; Kim, H. Y.
- Lee, H.-S.**, See Chang, S.-I.
- Lee, H. W.**, See Jung, Y.
- Lee, I.**, See Kim, S. S.
- Lee, I.-H.**, See Kim, I.-S.
- Lee, J. E.**, See Lea, M. A.
- Lee, J.-H.**, See Kim, I.-S.
- Lee, J. H.**, See Jung, K. K.
- Lee, J. J.**, See Moon, Y. A.
- Lee, J. R.**, See Park, H. S.
- Lee, J.-S.**
—; Li, C.-Y.; Ko, Y.-G.; Kim, J.-I.; Seo, J.-S.
Hsp70 inhibits apoptosis downstream of cytochrome *c* release and upstream of caspase-3 activation, A378
- Lee, K. F.**
—; Chan, J. Y. C.; Lau, K. F.; Lee, W. C.; Miller, C. C. J.; Anderton, B. H.; Shaw, P. C.
Molecular cloning and characterization of human glycogen synthase kinase-3 α promoter, A306
- Lee, K.-K.**, See Sohn, B. H.
- Lee, K. S.**, See Cheung, P. Y.
- Lee, M.**, See Diaz, Z.; Singh, S.
- Lee, S.-C.**, See Shim, I.
- Lee, S. J.**, See Park, H. S.
- Lee, S. S.**
—; Banting, G.
An investigation of the role of TGN38 in secretion and characterization of its luminal domain, A352
- Lee, S.-Y.**, See Kim, I.-S.
- Lee, S. Y.**, See Park, H. S.
- Lee, T.-c.**, See Balestrieri, M. L.
- Lee, T. E.**
—; Lips, H. S.
Changes in nitrogen metabolism under stressful conditions, A328
- Lee, T. H.**, See Chang, H. C.
- Lee, T.-L.**, See Lin, C.-T.
- Lee, W. C.**, See Lee, K. F.
- ; Miller, C. C. J.; Shaw, P. C.
Glycogen synthase kinase-3 β in SHSY-5Y cell line is induced by cAMP-dependent protein kinase (PKA) pathway, A305
- Lee, W.-J.**
—; Kim, S.-Ho.; Kim, Y.-S.; Han, S.-J.; Park, K.-S.; Ryu, J.-H.; Hur, M.-W.; Choi, K.-Y.
Identification and characterization of a *Drosophila* dual-specific MAP kinase phosphatase, A427
- Lee, W.-N. P.**, See Comin, B.
- Lee, X.-P.**, See Kumazawa, T.
- Lee, Y.-H.**, See Hwang, I. T.; Stallcup, M. R.
- Lee, Y. K.**, See Park, H. S.

- Lee, Z. H., See Kim, H.-H.
- Leek, M. D.
—; Wound healing and tissue repair, A54
- Leers-Sucheta, S., See Azhar, S.; Medicherla, R.
- Legiša, M., See Bencina, M.
- Legiša, M., See Bencina, M.
- Legon, S., See Suthar, T.
- Legrain, P.
—; Network of protein interactions and functional analysis of proteomes, A120
- Leheta, O., See Abdalla, E. M.
- Lehto, V.-P., See Poussu, A. M.
- Lei, H.-C., See Wang, C.-Y.
- Leibiger, B., See Barker, C. J.
- Leibiger, I., See Barker, C. J.
- Leick, V.
—; Bøg-Hansen, T. C.; Aaroe Juhl, H.
Affinity chromatography purification of insulin/FGF-binding ciliary membrane glycoprotein(s) from *Tetrahymena* with putative signalling function, A268
- Leimane, V., See Baumanis, V.
- Leipelt, M.
—; Warnecke, D. C.; Hube, B.; Zähringer, U.; Heinz, E.
Characterization of UPD-glucose: ceramide glucosyltransferases from different organisms, 751
- Leismann, O., See Gowher, H.
- Lemaire, G., See Roy, B.
- Lemkina, L. M., See Korobov, V. P.; Titova, A. V.
—; Korobov, V. P.; Balandina, I. A.; Perepelitsin, V. N.
Alteration in the indices of connective tissue metabolism under gullet chemical burn, A159
- Lenasi, H., See Slajpah, M.
- Lenman, M., See Banaś, A.; Sandager, L.
- Lennon, N.
—; Ohlendieck, K.
Oligomerization of Ca²⁺-regulatory membrane proteins in cardiac muscle, A32
- Leonard, A. E., See Das, T.
- Leon-Vazquez, R. G.
—; Colon-Rivera, J. L.
Characterization of systeine-rich protein and "yellow fraction: from *Lucina pectinata*, A419
- Lepoivre, M., See Roy, B.
- Lerrer, B.
—; Gilboa-Garber, N.
Inhibition of *Pseudomonas aeruginosa* lectins by glycoproteins of avian egg whites, A231
- Leshchinskaya, I. B., See Vershina, O. A.
- Lessire, R., See Maisonneuve, S.; Puyaubert, J.; Schreiber, L.
- Leszczynski, B., See Urbanska, A.
- Letamendia, A., See Labbe, E.
- Leung, T. W. C.
—; Tong, C.; Lin, S.; Tsang, A.; Yao, K.-M.
Over-expression of FoxM1 facilitates progression through G2/M phase and stimulates expression of cyclin B1, A370
- Leung, Y. F.
—; Chua, J. K. H.; Baum, L.; Fan, D. S. P.; Lam, D. S. C.; Pang, C. P.
Sequence variations in the *TIGR* gene, A301
- Lenthäuser, K.
—; Gujer, R.; Aldecoa, A.; Muff, R.; McKinney, R. A.; Fischer, J. A.; Born, W.
Receptor-activity-modifying protein 1 (TAMP) is an essential accessory molecule in cell surface complexes with two distinct CGRP receptors, A202
- Lever, M., See Paton, M. B.
- Leverentz, M., See Griffiths, G.
- Levin, D. E., See Philip, B.
- Levin, R., See Czerlinski, G.
- Lew, R. A., See Smith, A. I.
- Lewandowska, I., See Grabowska, D.; Kacprzak, M.
- Lewis, A. P., See Wagner, S. E.
- Lewis, H. D., See Beher, D.; Clarke, E.
- Lewis, K., See Severina, I. I.
- Lewis, M. J., See Beaudoin, F.; Whitney, H.
- Lewis, P. N.
—; Balaram, R.; Commisso-Cappelli, C.; Gandilo, C.; Khan, A.; Signorelli, T.
Structure-function studies of the yeast histone deacetylase Hos3p, A250
- Lewis, S., See Lane, E.
- Li, A., See Thomas, T. O.
- Li, C.-Y., See Lee, J.-S.
- Li, H., See Stallcup, M. R.
—; Wicks, W. D.
Retinoblastoma protein as a possible matchmaker in modulating the actions of the transcription factors ATF2 and ATFα, A244
- Li, H. F.
—; Wu, S. N.; Chiang, H. T.
Ciglitazone-mediated modulation of Ca²⁺-activated potassium currents in rat pituitary GH₃ cells, A392
- Li, J., See Bhattacharjee, H.; Quilty, J. A.
—; Wang, W.-L.; Yu, X.-X.; Yang, X.-K.; Hou, Y.-D.
Overexpression of Bak induced cell cycle arrest in G1 phase through up-regulating expression of p27KIP1 in HCC-9204 cell line, A368
- Li, L.
—; Vikström, S.; Wieslander, Å.
Redox regulation of the glucolipid synthesis in *Acholaplasma laidlawii*, A398
- Li, M., See Nie, Y.
- Li, S., See Liu, D.
- Li, S.-C.
—; Du, L.-F.
The action of Co²⁺ on the water oxidizing complex of photosystem II, A404
- Li, S.-q.
—; Wang, X.-h.; Fu, Y.-f.; Schoner, W.
Endogenous ouabain-like and proscillaridin A-like immunoreactivity in the patients with hypertension, A392
- Li, W. F.
—; Brophy, V. H.; Costa, L. G.; Richter, R. J.; Hagen, T.; Shih, D. M.; Lusic, A. J.; Jarvik, G. P.; Furlong, C. E.
Mutations in human PON1: role in organophosphorus sensitivity and vascular disease, A436
- Li, W. Q., See Luo, J. Z.
- Li, Y.-K.
—; Chir, J.; Chen, G.
Catalytic mechanism of a family B3 β-glucosidase and identification of His-169 as an essential residue for activity, A328
- Li, Z.-Y., See Zhou, J.-M.
- Li, Z.-Y.
—; Zou, W.; Tsui, Z.-C.
Transfection of pemt2 gene into rat hepatoma cells down regulates the Ras/MAPK signal transduction pathway, A278
- Liacos, C., See Armakolas, A.
- Lian, J. Q., See Zhang, Y. L.
- Lian, L. Y.
—; Dynamics of interactions of glutathione S-transferases and their mechanistic significance, A5
- Liang, F.
—; Chang, C. F.
Effects of Zn²⁺ on the solubility and enzymatic activities of recombinant CD157 in *Echericia coli*, A411
- Liang, W.-J.
—; Johnson, D.; Jarvis, S. M.
The human sodium-dependent vitamin C transporters—molecular cloning and functional characterization, A91
- Liang, X.
—; Huang, Y.
Physical state change of membrane lipids in human lung adenocarcinoma A549₅₄₉ cells and multidrug resistance, A396
- Liang, X. J.
—; Decrease of intracellular free Ca²⁺ concentration and cisplatin resistance in human lung adenocarcinoma A₅₄₉ cells, A454
- Liao, K.
—; Zhai, B.; Jin, S.
Role of proto-oncogene Crk in the differentiation induction of 3T3-L1 preadipocyte, A431
- Libinaki, R., See Ogru, E.
- Libinaki, R.
—; Gianello, R.; Ogru, E.; Heffernan, M.; Ng, F.
The use of proteomics to understand the action of the anti-obesity compound AOD9604 in the treatment of obesity, A261
- Libinaki, R., See Gianello, R.
- Libisch, B., See Sayanova, O.
- Lichota, J., See Krohn, N. M.
- Lichota, K. D., See Maciejewska, A. M.
- Lichsteinstein, A.
—; Mazar, J.; Dvilansky, A.; Nathan, I.
Involvement of a TPCK-sensitive enzyme in cell death induced in a monocytic cell line, A378
- Lichtenthaler, H. K., See Mueller, C.; Zeidler, J.
—; Non-mevalonate isoprenoid biosynthesis: enzymes, genes and inhibitors, 785
- Liddington, R. C., See Emsley, J.
- Liebeschuetz, J., See Martin, H.
- Liebrich, W., See Skepu, A.
- Liew, C. T., See Yun, J. P.
- Lightowers, R. N., See Selwood, S. P.
- Liljenberg, C., See Berglund, A. H.
- Liljeström, P., See Skoging Nyberg, U.
- Lilley, D. M. J., See Hadden, J. M.
- Lim, J., See Guy, G. R.
- Lim, L.
—; ROK and Rho and other players in cytoskeletal dynamics, A118
- Lima, R. S. N.
—; Moreira, R. A.
Biotechnological utilization of cashew tree exudate gum: an useful tool for glucobiochemical studies, A336
- Limpaneni, T., See Eksittikul, T.
- Lin, C.-H., See Huang, Y.-J.
- Lin, C. H., See Weng, C. F.
- Lin, C.-L.
—; Fu, R.-H.; Wang, A.-Yu.; Sung, H.-Y.
Molecular biological studies on invertase from shoots of etiolated rice seedlings: cloning and expression of acid invertase cDNAs, A402
- Lin, C.-T.
—; Lee, T.-L.; Duan, K.-J.

- Molecular cloning, characterization and expression of a cDNA coding copper/zinc-superoxide dismutase from black porgy, A215
- Lin, J.-T.**, See McKeon, T. A.
- Lin, S.**, See Leung, T. W. C.
- Lin, X.**, See Chen, S.; Finley, J. B.
- Linde, J.**, See Agrawal, R. K.
- Lindgren, A.**, See Fridman, V.
- Lindhammer, A.**, See Jacobasch, G.
- Lindley, C. H.**
—; Turner, A. J.; Davis, J.; Hooper, N. M.
Characterization of the endoproteolytic cleavage of the familial Alzheimer's disease protein presenilin-1, A305
- Lindner, H.**, See Talasz, H.
- Lindquist, S.**
—; New mechanisms of inheritance based on self-perpetuating changes in protein conformation, A137
- Lindsay, A. J.**
—; McCaffrey, M. M.
Identification and characterization of a Rab4-interacting protein, A41
- Lindstad, R. I.**
—; Sylte, I.; Winberg, J.-O.
A novel activation mechanism of progelatinase A: electrophoretic, kinetic and structural studies on the proteolytic activation of human progelatinase A by pancreatic trypsin, A314
- Ling, W.**, See Bo, N.
- Lingren, M.**, See Soomets, U.
- Link, W. A.**, See Carrión, A. M.
- Lipinska, B.**, See Kotlarz, A.; Kuchanny-Ardigró, D.; Kuczvara, E.
- Lipkin, V. M.**, See Smirnova, E. V.
- Lips, H. S.**, See Lee, T. E.
- Lipscombe, R. J.**, See Kendrick, T. S.
- Lisa, V.**, See Sedo, A.
- Lisdat, F.**, See Fridman, V.
- Lisovskiy, I.**
—; Hobta, A.; Soldatkina, M.; Garmanchouk, L.; Markeeva, N.; Lytvyn, D.; Pogribnyi, P.
Detection of mRNA for beta-defensin 2 in human cell lines of epithelial origin, A174
- Lissoni, F.**, See Pugliese, A.
- Liszewska, F.**
—; Blaszczyk, A.; Sirko, A.
Modification of the cysteine biosynthesis pathway in higher plants: characterization of transgenic tobacco plants producing bacterial SAT and OAS-TL, A262
- Liszka, V.**, See Fábrián, Zs.
- Litherland, G. J.**, See Hadden, D. A.; Patching, S. G.; Xie, H.
- Lithgow, T.**, See Beddoe, T.
—; Targeting of proteins to mitochondria, A126
- Littlechild, J. A.**, See Gonsalvez, I. S.
- Littlechild, J. A.**, See Gonsalvez, I. S.; Hollingsworth, E. J.; Schröder, E.
- Liu, D.**
—; Li, S.; Fu, M.
Expression of OPN and TGF-B1 mRNAs in UMR-106 cells under mechanical stretching, A174
- Liu, L.-S.**, See Spiro, R. C.
- Liu, Q.**, See Singh, S.; Wynn, S. L.
—; Singh, S.; Green, A.
Genetic modification of cotton seed oil using inverted-repeat gene-silencing techniques, 927
- Liu, R.**, See Wright, J. M.
- Liu, S.**, See Wang, D.
- Liu, S. C.**, See Zhang, Y. L.
- Liu, X.**, See Křepela, E.; Pahan, K.
- Liu, Y. S.**
—; Structural basis of activation gating in K⁺ channels, A135
- Liu, Z.**, See Trotter, J. A.
- Ljungberg, M. C.**, See Dayanandan, R.
- Llorens-Cortès, C.**, See Iturriz, X.
—; Aminopeptidase A, generating one of the main effector peptides of the brain renin-angiotensin system, angiotensin III, plays a key role in the central control of blood pressure, A60
- Llorens-Cortès, C.**, See Reaux, A.
- Loake, G. J.**, See Aboul-Soud, M. A. M.
- Lobov, I. B.**, See Beliaev, D. K.
- Lobysheva, I. I.**
—; Stupakova, M. V.; Mikoyan, V. D.; Vanin, A. F.; Vasilieva, S. V.
Role of iron ions in the SOS DNA repair response induced in *E. coli* by nitric oxide donors, A165
- Locher, H.**, See Hirata, T.
- Lock, P.**, See Lawrenson, I.
- Lodha, M. L.**, See Mandal, M. N. A.
- Loganathan, B. G.**, See Whalen, M. M.
- Lohi, O. S.**, See Poussu, A. M.
- Loikkanen, J.**, See Fallarero, A.
- Lojo, J.**, See Salgado, F. J.
- Loke, Y. W.**
—; Decidual natural killer (NK) cell interaction with trophoblast: cytolysis or cytokine production?, A19
—; King, A.
Decidual natural-killer-cell interaction with trophoblast: cytolysis or cytokine production?, 196
- Lombard, D. C.**, See Korf, J. E.
- Lommer, B. S.**
—; Luo, M.
Influenza virus nuclear export protein assumes a dynamic conformation under physiological conditions, A419
- Long, J. H.**, See Brooker, N. L.
- Long, Z.**, See Homma, H.
- Longman, A. J.**
—; Michaelson, L. V.; Sayanova, O.; Napier, J. A.; Stobart, A. K.
An unusual desaturase in *Aquilegia vulgaris*, 641
- Longobardi, L.**, See Balestrieri, M. L.
- Lopes, U. G.**, See Benedito, A. B.
- López Bernal, A.**, See Moore, F.; Price, S. A.
- Lopez-Casillas, F.**, See Esparza-Lopez, J.; Vilchis-Landeros, M. M.
- Lopez-Huertas, E.**, See Baker, A.; Oh, J.
- Lord, m.**, See Argent, R.
- Lorino, H.**
—; Rouet, P.; Junier, M.-P.; Mariette, C.
BiOib: an illustrated database in cell and molecular biology, A144
- Lorite, M.-J.**, See Benitez, J.
- Los, D. A.**, See Suzuki, I.
- Los, S. I.**, See Mykhalendko, N. F.
- Lotero, L. A.**, See Oimos, G.
- Lott, J. S.**
—; Arcus, V. L.; Banfield, M. J.; Holliss, C. A.; McCarthy, A.; Sigrell, J.; Baker, E. N.
Structural genomics of *Pyrobaculum aerophilum* and *Mycobacterium tuberculosis*, A229
- Loubiere, P.**, See Kowalczyk, M.
- Lougovskoy, E. V.**, See Komisarenko, S. V.
- Lounes-Hadj Sahraoui, A.**, See Muchembled, J.
- Louw, A. I.**, See Schulze, D. L. C.
- Louw, R.**, See Potgieter, H. C.
- Love, J. D.**
—; Gooch, J. T.; Nagy, L.; Chatterjee, V. K. K.; Schwabe, J. W. R.
Transcriptional repression by nuclear receptors: mechanisms and role in disease, 390
- Lovering, A. L.**
—; Searle, P. F.; Hyde, E. I.; White, S. A.
Crystallographic studies of a flavoprotein from *E. coli*, A420
- Lovering, R.**, See Wain, H.
- Lovestone, S.**, See Chapman, S. C.; Dayanandan, R.; Gibb, G. M.; Pollard, C. L.
—; Apolipoprotein E and Alzheimer's disease: is tau the link?, A16
- Low, B. C.**, See Guy, G. R.
- Loyola-Vargas, V. M.**, See Rojas-Herrera, R.
- Loza-Tavera, H.**, See Ayala-Ochoa, A.
- Loza-Tavera, H.**, See Diaz-Miracles, E.
- Lu, X. Y.**, See Luo, J. Z.
- Lu, Z.-L.**
—; Hulme, E. C.
Functional probing of transmembrane domain 7 of the M₁ muscarinic acetylcholine receptor by alanine scanning mutagenesis, A268
- Lua, Y.**, See Azhar, S.; Medicherla, R.
- Lucet-Lavannier, K.**, See Dive, V.
- Luchkina, L. A.**
—; Kaboev, O. K.
PCR hot start using an oligonucleotides with a stem-loop structure as primers, A363
- Luchman, H. A.**, See Post, J. N.
- Luciano, P.**, See Tokatlidis, K.
- Lucic, M. R.**
—; Forbes, B. E.; Wallace, J. C.
Role of residues 221–236 in bovine insulin-like growth factor binding protein-2 (bIGFBP-2) for insulin-like growth factor (IGF) binding, A463
- Luciw, T.**, See Katavic, V.
- Lucock, M. D.**, See Blackburn, A.
- Ludvikova, E. K.**, See Ajtkhozina, N. A.; Balmukhanov, T. S.; Slivinsky, G. G.
—; Samashev, Z. S.; Ajtkhozina, N. A.
Polymorphism of mitochondrial DNA in Kazakh populations, A362
- Ludwig, H. C.**, See Yañez, A. J.
- Luethi-Peng, Q. Q.**
—; Puhan, Z.
Effect of glucose on glycerol metabolism by *Lactobacillus reuteri*, A330
- Lukasheva, E. V.**, See Berezov, T. T.
- Lukashevitch, I. B.**, See Nikandrov, V. N.
- Lukashevitch, V. S.**, See Nikandrov, V. N.
- Lukjanov, D. V.**, See Dolnik, A. V.
—; Podgornaya, O. I.
Ubiquitous protein p68, organized in particles, specifically binds to Alu family DNA, A229
- Lukyanchuk, V.**
—; Reva, O.; Polishchuk, L.
Restriction endonucleases of type II from two endophytic strains of *Bacillus*, A181
- Lukyanchuk, V. V.**, See Polishchuk, L. V.
—; Polishchuk, L. V.; Matselyuch, B. P.
Site specific restriction endonucleases of type II soil streptomycetes, A181
- Lund, J.**, See Mimura, Y.
- Luo, J. X.**
—; Lu, X. Y.; Li, W. Q.; Sheng, J.
Cloning and expression of kringle 1–3 domain gene of human plasminogen and its bioactivity, A216
- Luo, M.**, See Finley, J. B.
- Luo, M.**, See Lommer, B. S.

- Lurz, R.**, See Mücke, M.
- Lushnikov, A.**
—; Kurg, A.; Tönisson, N.; Kask, I.; Metspalu, A.
Immobilisation of arrayed oligonucleotides for mutation detection by primer extension, A216
- Lushnikova, T.**
—; Knuutila, S.; Miettinen, M.
DNA copy number changes in epithelioid sarcoma and its variants, A223
- Lusis, A. J.**, See Li, W. F.
- Luthert, P. J.**, See Bailey, T. A.
- Luthra, K.**, See Chhabra, S.
—; Bharghav, B.; Vasisht, S.; Chhabra, S.; Agarwal, D. P.; Das, N.; Srivastava, L. M.
Apolipoprotein E phenotyping and lipid profile in angiographically proven CAD patients and controls from a North-Indian Population, A302
- Lutz, M.**
—; Baniahmad, A.; Renkawitz, R.
Modulation of thyroid hormone receptor silencing function by co-repressors and a synergizing transcription factor, 386
- Lutz, R. J.**
—; Role of the BH3 (Bcl-2 homology 3) domain in the regulation of apoptosis and Bcl-2-related proteins, 51
—; The role of the BH3 domain in the regulation of apoptosis and Bcl-2 related proteins, A13
- Lyakhovich, A.**
—; Aksenov, N.; Pennanen, P.; Miettinen, S.; Ahonen, M.; Svala, H.; Ylikomi, T.; Tuohimaa, P.
Effects of FGF-7 on proliferation of LNCaP cells, A340
- Lyaku, J. R. S.**, See Cepica, A.
- Lyamouri, M.**, See Enerly, E.
- Lynch, C.**
—; McDonnell, S.
The expression and regulation of MMP-7 (matrilysin, or matrix metalloproteinase-7) in leukaemic cell lines, A39
- Lynch, C.**
—; Role of matrilysin (MMP-7) in myeloid leukaemia invasion, A449
- Lynch, D. V.**, See Cantatore, J. L.
- Lynch, E.**, See Claxson, A.; Grootveld, M.; Mills, B.; Silwood, C.
—; Grootveld, M.; Silwood, C.; Claxson, A.
Proton ¹H-NMR investigations of the oxidizing actions and status of a peroxoborate-containing dentrifice in human saliva, A46
- Lynch, S. V.**
—; Engel, P. C.
Genetic characterisation of a novel transaminase in *E. coli*, A181
- Lyons-Levy, G.**, See Trotter, J. A.
- Lytton, J.**, See Dunn, J.
- Lytvyn, D.**, See Lisovskiy, I.
- Ma, D. H.**
—; Armugam, A.; Jeyaseelan, K.
Identification and characterization of a novel silencer element within the promoter of an alpha-neurotoxin gene, A179
- Ma, H.**, See Stallcup, M. R.
- Mabbutt, B. C.**, See Cubeddu, L.
- Macdermot, J.**, See Saxty, B. A.
- Macdonald, N.**, See Chevalier, S.
- MacEwan, D. J.**, See McFarlane, S. M.
- MacFarlane, S.**, See Kanke, T.
- MacFarlane, S. R.**, See Scatter, M. J.
- MacGregor, D.**, See Appleford, P. J.
- Maciejewska, A. M.**
—; Lichota, K. D.; Kusmieriek, J. T.
Base pairing of 2-hydroxyadenine, A166
- Mackeldanz, P.**, See Mücke, M.
- Mackenzie, P. L.**
—; Campopiano, D.; Baxter, R.
Overexpression of the LCB1 and LCB2 components of serine palmitoyltransferase, A314
- MacKenzie, R.**, See Young, N. M.
- MacKenzie, S. L.**, See Jain, R. K.; Katavic, V.
- MacLennan, D.**
—; Regulation of sarcoplasmic reticulum Ca²⁺ pumps, A136
- MacNeill, S. A.**, See Martin, I. V.
- MacRae, I. J.**
—; Fisher, A. J.; Segel, I. H.
Induction of positive cooperativity by amino acid replacements within the C-terminal domain of *Penicillium chrysogenum* ATP sulfurylase, A320
- Madhubala, R.**, See Myler, P. J.
- Maeba, R.**
—; Shimasaki, H.; Takahashi, I.; Ueta, N.
Novel function of ethanolamine plasmalogen in protecting cholesterol from the attack by free radicals in liposomal membranes, A398
- Maeda, M.**, See Kasahara, M.
- Maeda, N.**, See Kitano, K.
- Maeda, T.**, See Nagamune, H.
- Maffouz, M.**, See Sangiambut, S.
- Magaud, J. P.**, See Prevot, D.
- Magee, A. I.**, See Syed, S. H.
- Maggi, E.**, See Piccinni, M.-P.
- Magnani, M.**
—; Crinella, R.; Antonelli, A.; Bianchi, M.; Gentilini, L.; Scaramucci, S.
Modulation of NF-kB activation by targeted delivery of dexamethasone to macrophages, A436
- Magnusson, K.-E.**, See Kulyté, A.; Treigyte, G.
- Magret, M. D.**, See deAtauri, P.
- Magyar, C.**, See Nemeth, A.
- Mahdavi, N.**, See Pour, A. E.
- Maher, L. S.**, See Bajaj-Elliott, M.
- Maher, R.**, See Kapas, S.
- Mahler, A.**, See Bollengier, F.
- Mahler, J.**, See Martin, H.
- Mahmoud, K. M. A. G.**
—; Spooner, R. K.; Deacon, S.; McPherson, M. J.
Domain I of galactose oxidase is not required for catalytic activity, A72
- Maia, I. G.**, See Borecky, J.
- Maingon, R. D. C.**, See Campos Ponce, M.
- Maini, M. K.**, See Soares, M. V. D.
- Maisonneuve, S.**
—; Bessoule, J.-J.; Lessire, R.; Delseny, M.; Roscoe, T. J.
Mutagenesis of a plastidial lysophosphatidic acid acyltransferase, 961
- Maitland, A.**
—; Dichloroacetate (DCA) decreases brain lactate, but increases brain glutamate in murine cerebral malaria, A455
- Majchrzak, M. J.**
—; Staczek, P.; Jaworski, A.; Parniewski, P.
Influence of nucleotide excision repair on growth properties of *E. coli* harbouring triplet repeats containing plasmids, A166
- Majid, N. A.**, See Parveez, G. K. A.
- Majsterek, I.**
—; Walter, Z.
DNA damage and repair in mitochondria of mammals effected by anticancer platinum drugs, A463
- Makawiti, D. W.**, See Menge, M. D.
- Makogonenko, E. M.**, See Korolchuk, V. I.
- Makowska, A.**, See Zablocki, K.
—; Duszyński, J.
Mitochondria can modify the activity of store-operated calcium channels in the plasma membrane of Jurkat cells, A463
- Maksimovic, V. R.**, See Brkljacic, J. M.
- Malanga, M.**, See Atorino, L.
- Malanowska, K.**, See Banach, M.
- Malarczyk, E.**, See Jarosz-Wilkolazka, A.
- Malavé, A.**, See Ramakrishnan, R.
- Malcherek, S.**, See Hesse, L.
- Males, D.**, See Katavic, V.
- Malhotra, R.**, See Foster, M. R.; Hickling, T. P.
- Mali, D.**, See Kapas, S.
- Malik, R.**, See Sedo, A.
- Malikova, M. A.**
—; Stepanov, A. S.
Intracellular localization and activity changes of casein kinase 2 during progesteron-induced maturation of *Rana temporaria* oocytes, A386
- Maliszewska-Tkaczyk, M.**
—; Jonczyk, P.; Białorskórska, M.; Schaaper, R. M.; Fijałkowska, I. J.
The SOS mutator activity: unequal mutagenesis on leading and lagging strands, A166
- Malone, B.**, See Balestrieri, M. L.
- Malthouse, J. P. G.**, See Shine, A.
- Mancha, M.**, See Martínez-Rivas, J. M.
- Manchanda, S. C.**, See Chhabra, S.
- Mandal, M. N. A.**
—; Santha, I. M.; Lodha, M. L.; Mehta, S. L.
Cloning of acyl-acyl carrier protein (ACP) thioesterase gene from *Brassica juncea*, 967
- Mande, S.**, See Vasudha, S.
- Mandelkow, E.**
—; Pathway of tau aggregation into Alzheimer paired helical filaments, A108
- Manilal, S.**, See Holt, I.
- Mann, M.**
—; Defining gene function via the mass spectrometric analysis of multiprotein complexes, A120
- Manning, F. C. R.**, See Thompson, S. L.
- Mannisto, P.**, See Fallarero, A.
- Manoj Kumar, P. P.**, See Muzio, M.
- Mans, B.**
—; Evolution of anti-haemostatic factors from soft ticks of the *Ornithodoros* spp. (Acari: Argasidae), A444
- Mansfield, J.**, See Brown, V. M. D.
- Mansilla, F.**
—; Knudsen, C. R.; Jadidi, M.; Clark, B. F. C.
Human translation elongation factors 1A1 and 1A2: an excellent bait for two-hybrid system analysis, A464
- Mansion, M. M.**
—; Holloway, K. A.; Howells, L. M.; Hudson, E. A.; Plummer, S. M.; Squires, M. S.; Prigent, S. A.
Modulation of signal-transduction pathways by chemopreventive agents, 7
- Manson, M.**
—; Modulation of signal transduction pathways by chemopreventive agents, A7
- Mantel, S. H.**, See Brown, V. M. D.
- Mantell, S. H.**, See Brown, V. M. D.
- Mantle, T.**

- ; The α -2 loop of glutathione S-transferase GSTP1: a redox sensor?, A5
- Mantovani, A.**, See Muzio, M.
- Mäntsälä, P.**, See Rappu, P.
- Manukhin, I. B.**, See Petrovich, Y. A.
- Manzini, G.**, See Marsich, E.
- Mapara, Z.**, See Saeed, S. A.
- Maqbool, A.**, See Smith, W. H. T.
- Marana, S. R.**
- ; Jacobs-Lorena, M.; Terra, W. R.; Ferreira, C.
- Amino acid residues involved in substrate binding and catalysis in an insect digestive beta-glycosidase, A315
- Marangoni, S.**, See Carvalho, D. D.
- Marangoni, S.**, See Di Ciero, L.
- Marangoni, S.**, See Di ciero, L.
- Marash, L.**, See Arons, E.
- Marceau, F.**, See Bachvarov, D.
- Marcel, G. C. F.**
- ; Matos, A.; d'Arcy-Lameta, A.; Kader, J.-C.; Zuily-Fodil, Y.; Pham-Thi, A.
- Two novel plant cDNAs homologous to animal type-2 phosphatidate phosphatase are expressed in cowpea leaves and are differently regulated by water deficits, 915
- Marchant, A.**, See Swarup, R.
- Marchi, B.**, See Panfoli, I.
- Marcińska, I.**, See Filek, M.
- ; Biesaga-Kościelniak, J.; Filek, M.
- The effect of sucrose concentration on growth and parameters of medium during short-term suspension culture of wheat (*Triticum aestivum* L.), A295
- Maréchal, E.**
- ; Awai, K.; Block, M. A.; Brun, D.; Masuda, T.; Shimada, H.; Takamiya, K.-i.; Ohta, H.; Joyard, J.
- The multigenic family of MGDG synthases, 732
- Marechal-Drouard, L.**, See Fey, J.
- Mares, V.**, See Sedo, A.
- Marga, O.**, See Baumanis, V.
- Margulis, B.**, See Guzhova, I.
- Mariette, C.**, See Lorino, H.
- Marin, M.**, See Martinez, C.
- Marinescu, G.**, See Badea, E.
- Marinovic, M.**
- ; Florian, S.; Schmehl, K.; Jacobsch, G.
- Influence fo COX-inhibitors on the localization of PKC δ in the small intestine of the APC gene defect mice, A432
- Markarian, S.**
- ; Poladian, A.; Kirakossian, G.; Bagramyan, K.
- Dimethylsulfoxide affects bacterial survival and regulates the ion transport, A194
- Markeeva, N.**, See Lisovskiy, I.
- Markham, P. N.**, See Vazquez-Laslop, N.
- Markiewicz, M.**, See Barciszewski, J.
- Markiewicz, W. T.**, See Barciszewski, J.
- Markou, T.**
- ; Lazou, A.
- α_1 -adrenergic stimulation differentially activates the mitogen-activated protein kinase subfamilies in adult rat cardiac myocytes, A431
- Markova, N. G.**
- ; Jurukovska, N.; Simon, M.
- Inhibition of histone deacetylase activity promotes differentiation but downregulates the expression of a late differentiation marker in the epidermis, A240
- Markovich, D.**, See Craik, J. D.
- Marks, F.**, See Baehr, C.
- Markvicheva, E.**, See Kuptsova, S.
- Marlier, M.**, See Fauconnier, M.-L.
- Marmorstein, R.**
- ; Structure of the histone acetyltransferase domains of the GCN5, P/CAF and ESA1 transcriptional coactivators, A106
- Marques, M.**
- ; Costa, V.; Amorim, M. A.; Moradas-Ferreira, P.
- Glucose metabolism and turnover of oxidised proteins during the recovery of yeast cells from hydrogen peroxide stress, A294
- Márquez, J.**, See Pérez-Gómez, C.
- Marrakchi, M.**, See Marzouki, N.
- Marrer, E.**
- ; Caspers, P.; Page, M.
- Genetic analysis of 18 putative transport proteins in *Streptococcus pneumoniae*, A90
- Marrero, I.**
- ; Déniz, A.
- Signaling by the cytokine receptor superfamily in rat hepatocytes: cytosolic free Ca^{2+} , A278
- Marrero, P. F.**, See Baldán, A.
- Marrone, A. F.**
- ; Smith, J.
- Growth control in skeletal muscle stem cells, A383
- Marsden, M. E.**, See Cunningham, G. A.
- Marsden, P.**, See Newton, D.
- Marshall, C.**, See Sage, E.
- ; Small GTPases and control of cell proliferation, A115
- Marsich, E.**
- ; Bandiera, A.; Tell, G.; Scaloni, A.; Manzini, G.
- A chicken hnRNP type A/B recognizes specifically the single-strand telomeric repeated motif d(CCCTAA) $_n$, A251
- Martens, U. M.**
- ; Brass, V.; Engelhardt, M.; Glaser, S.; Waller, C. F.; Lange, W.; Schmoor, C.; Poon, S. S. S.; Lansdorp, P.M.
- Measurement of telomere length in haematopoietic cells using *in situ* hybridization techniques, 245
- ; Telomere length measurements in haematopoietic cells using *in situ* hybridization techniques, A3
- Martin, A.**, See Bates, R. L.; Farquhar, M. J.; Fitchett, C. J.
- Martin, A. C. R.**, See Pearl, F.
- Martín, C.**
- ; Navarro, R.; Martínez, R.; Ruiz-Sanz, J. I.; Lacort, M.; Ruiz-Larrea, M. B.
- Secretory phospholipase A2 is not involved in *tert*-butyl hydroperoxide-induced lipid signalling in rat hepatocytes, A282
- Tert*-butyl hydroperoxide-induced diacylglycerol accumulation in rat hepatocytes: role of phospholipases C and D, A282
- Martin, H.**
- ; Mahler, J.; Dyas, S.; Auton, T.; Liebeschuetz, J.
- High affinity, slow binding FXa inhibitors are poor inhibitors of clot formation *in vitro*, A436
- Martin, I. V.**
- ; MacNeill, S. A.
- Dual functions of the N-terminal domain of *S. pombe* DNA ligase I, A251
- Martín, L.**
- ; Lacerada, M. C.; Miguel, B. G.; Catalán, R. E.; Martínez, A. M.
- Sphingosylphosphorylcholine-induced release of intracellular calcium in rat brain synaptosomes, A278
- Martin, M. E.**, See Muñoz, F. M.
- Martin, N. C.**, See Gajewska, B.
- Martin, S. J.**, See Adrian, C.
- Martin, S. L.**, See Hickling, T. P.
- Martin, S. R.**, See Syed, S. H.
- Martin-de-la-Vega, C.**, See Quevedo, C.
- Martínez, J.**, See Novotna, Z.
- Martínez, J.**, See Zazimalova, E.
- Martínez, A. M.**, See Martín, L.
- Martínez, C.**
- ; Chalar, C.; Esteves, A.; Marin, M.; Castillo, E.; Soto, J.; Ehrlich, R.
- Molecular markers in *Echinococcus granulosus*, A175
- Martínez, J. A.**, See Banerjee, D. K.
- Martínez, R.**, See Martín, C.
- Martínez, S.**, See Comín, B.
- Martínez-Calvillo, S.**, See Myler, P. J.
- Martínez-Force, E.**
- ; Garcés, R.
- Metabolic control analysis of *de novo* sunflower fatty acid biosynthesis, 669
- Martínez Irujo, J. J.**, See Cabodevilla, J. F.
- Martínez-Rivas, J. M.**
- ; García-Díaz, M. T.; Mancha, M.
- Temperature and oxygen regulation of microsomal oleate desaturase (FAD2) from sunflower, 890
- Martinova, E. A.**
- ; Klimova, S. V.
- Lymphocyte apoptosis is connected with sphingolipid signaling and oxygen production, A359
- Martins, L. L.**
- ; Mourato, M. P.
- Estimation of kinetic constants using different methodologies applied to the *Ping-Pong Bi-Bi* kinetic mechanism, A315
- Martins, V. R.**, See Freitas, A. R. O.
- Martinson, H. G.**, See Jamil, A.
- Marzouki, N.**
- ; Fattouch, S.; Acheche, H.; M'hirsi, S.; Mellouli, L.; Bejar, S.; Marrakchi, M.
- Polymorphism analysis of GLV coat protein N-terminal sequence in Tunisian grapevine cultures, A212
- Mascareno, E.**, See Mathew, S.
- Masemola, A. M.**, See Parker, M. I.
- Maser, E.**, See Xiong, G.
- Masgaj, M.**, See Schwabe, T. M. E.
- Mashonganyika, C. N.**, See Mpofo, N.
- Masola, B.**, See Mpofo, N.
- Mason, D. J.**, See Huggett, J.
- Masri, M. M.**, See Parveez, G. K. A.
- Massey, S.**, See O'Sullivan, J. M.
- Massey, V.**
- ; The chemical and biological versatility of riboflavin, 283
- Massimino, M.**, See Negro, A.
- Masters, C. L.**, See Hesse, L.
- Masterson, B. F.**, See Real, K. J.
- Masterson, B.F.**, See Mion, B. J.
- Masterson, C.**
- ; Blackburn, A.; Wood, C.
- Acyl-CoA dehydrogenase activity in pea cotyledon tissue during germination and initial growth, 760
- ; Wood, C.
- Contribution of mitochondria and peroxisomes to palmitate oxidation in pea tissues, 757
- Masuda, T.**, See Maréchal, E.; Sasaki, Y.; Yamaryo, Y.
- Masui, R.**, See Nakagawa, N.
- Mata, A. M.**, See Sepúlveda, M. R.
- Matasova, L. V.**, See Semenihina, A. V.
- Matés, J. M.**, See Pérez-Gómez, C.
- Mathew, A.**, See Ntwasa, M.
- Mathew, C. G.**, See Medhurst, A. L.
- Mathew, S.**
- ; Mascareno, E.; Siddiqui, M. A. Q.

- Nishéd: a novel regulator of skeletal myogenesis, A240
- Mathur, A.**
—; Hong, Y.; Kemp, B.; Alvarez-Barrientos, A.; Erusalimsky, J. D. Evaluation of fluorescent dyes for the detection of mitochondrial membrane potential changes in cultured cardiomyocytes, A188
- Matikainen, S.**, See Sareneva, T.
—; Paananen, A.; Miettinen, M.; Kurimoto, M.; Timonen, T.; Julkunen, I.; Sareneva, T. IFN- α and IL-12 differentially regulate IFN- γ gene expression in human NK and T cells, A257
- Matok, H.**, See Urbanska, A.
- Matos, A.**, See Marcel, G. C. F.
- Matos, A. R.**
—; d'Arcy-Lameta, A.; França, M.; Zuily-Fodil, Y.; Pham-Thi, A. T. A patatin-like protein with galactolipase activity is induced by drought stress in *Vigna unguiculata* leaves, 779
- Matous, B.**, See Kleibl, Z.; Pohlreich, P.
- Matozaki, T.**, See Inagaki, K.; Takada, T.
- Matselyuch, B. P.**, See Lukyanchuk, V. V.; Polishchuk, L. V.
- Matsubara, K.**
—; Watanabe, M.; Jin, Y.-Z.; Saito, N.; Kawamoto, S.; Ochi, K. Novel Protein, p52, from *Streptomyces* as a modulator of cell physiology, A195
- Matsuda, K.**, See Tamaki, N.
- Matsuda, K.**
—; Kontani, Y.; Ohyama, T.; Sakata, S. F.; Tamaki, N. The mature size of rat 4-aminobutyrate aminotransferase is different in liver and brain, A420
- Matsui, K.**, See Koeduka, T.
—; Kurishita, S.; Hisamitsu, A.; Kajiwara, T. A lipid-hydrolysing activity involved in hexenal formation, 857
- Matsui-Yuasa, I.**, See Kojima, A.; Moffatt, J.
- Matsuki, T.**
—; Kawabuchi, M.; Okada, M.; Nagai, K. A novel hypothalamic protein, B10, which interacts with Per1, a clock-related protein, A278
- Matsumoto, Y.**, See Sonoda, Y.
- Matsumura, G.**, See Uesugi-Hayakawa, R.
- Matsumura, M.**, See Suvd, D.
- Matsuno, K.**, See Sakaguchi, T.
- Matsuo, H.**, See Yoshinaga, E.
- Matsuo, M.**
—; Sasaki, N. The cytotoxicity of reactive oxygen species and related agents toward undifferentiated and differentiated rat pheochromocytoma PC12 cells, A437
- Mattevi, A.**, See van den Heuvel, R. H. H.
- Matthews, K.**
—; Molecular control of differentiation during the life cycle of *T. brucei*, A473
- Matthews, K. R.**, See Hendriks, E.; Timms, M.; van Deursen, F. J.; Wilson, J.
- Matthews, R.**
—; Methyl transfers to thiols: the role of zinc, A123
- Mattson, M. P.**
—; Altered neuronal signalling associated with amyloid precursor protein and presenilin mutations promotes apoptosis and excitotoxicity, A17
- Matushin, V.**, See Nevinsky, G.
- Matuszewska, E.**, See Kedzierska, S.
—; Kedzierska, S.; Lagodzinska, A.; Taylor, A. Complementation of *dc1pB* mutation defect by pClpB and suppression of the defect by overproduction of Hsps: GroEL/GroES or DnaK/DnaJ/GrpE, A412
- Matyshevska, O. P.**
—; Borysov, S. I.; Solodushko, V. N.; Kucherenko, M. E. Calcium and Ca-dependent phospholipid signalling systems are involved in spleen lymphocyte apoptosis, A378
- Maudlin, I.**, See Hide, G.
- Maule, J.**, See McMahon, J. M.
- Maxfield, S. J.**
—; Wood, E. J.; Wolowacz, R.; Skerry, T. M.; Genever, P. G. Glutamate: a potential regulator of keratinocyte phenotype, A82
- Mayeux, P.**, See Verdier, F.
- Mayo, M. A.**, See Ryabov, E. V.
- Mayr, M.**, See Perschinka, H.
- Mazar, J.**, See Lichsteinstein, A.
- Mazliak, P.**, See Triki, S.
- Mazzanti, M.**, See Warton, K.
- Mazzetti, L.**, See Failli, P.
- Mbikay, M.**, See Harpin, S.
- McAinsh, M. R.**
—; Calcium signalling in stomatal guard cells, A57
—; Gray, J. E.; Hetherington, A. M.; Leckie, C. P.; Ng, C. Ca²⁺ signalling in stomatal guard cells, 476
- McBean, G. J.**, See Berry, C. B.; Flynn, J.
- McCabe, P. F.**, See Kim, D.-J.
- McCaffrey, M.**, See Fitzgerald, K.
- McCaffrey, M. M.**, See Lindsay, A. J.
- McCarthy, A.**, See Lott, J. S.
- McCarthy, T.**, See Bermingham, J.
—; Molecular genetic analysis of HLA-G in pre-eclampsia and normal pregnancy, A20
- McCaughan, G. W.**, See Abbott, C. A.
- McClenaghan, E. R.**, See Teakle, G. R.
- McClenaghan, N. H.**, See Shine, A.
- McColl, A. J.**, See Landham, P. R.
- McColl, S. M.**, See Thompson, S. L.
- McConkey, G. A.**, See Parker, M. D.
- McCord, B. R.**, See Wilson, D. O.
- McCormick, K. A.**, See Ratcliffe, C. F.
- McCready, S.**, See Williamson, D. H.
- McCrohan, O.**
—; Wang, X.-G.; Engel, P. C. Novel transaminases produced by directed evolution, A259
- McCulloch, R.**
—; Bell, J. S.; Burton, P.; Conway, C.; Robinson, N. P.; Barry, J. D. Genetic controls of DNA recombination during trypanosome antigenic variation, A166, A482
- McDonagh, P. D.**, See Myler, P. J.
- McDonnell, S.**, See Lynch, C.
- Mcdowell, W.**, See Foster, M. R.
- McEllone, M.**
—; Cruchley, A. T.; Hagi-Pavli, E.; Patel, M.; Braden, M.; Williams, D. M. permeability of oral mucosal tissues to dexamethasone, A201
- McEntyre, J. R.**
—; Interactive web sites as bioinformatics teaching aids, A68
- McEwan, I.**, See Reid, J.
- McEwan, I. J.**
—; Gene regulation through chromatin remodelling by members of the nuclear receptor superfamily, 369
- McEwen, R. K.**
—; Dove, S. K.; Michell, R. H. A multi-copy suppressor of a temperature-sensitive allele of the *S. cerevisiae* Type II phosphatidylinositol phosphate kinase Fab1p, A359
- McFarland, S. M.**
—; Petersen, M. F.; Steffensen, J. F.; Taylor, E. W. Genotypes of haemoglobin I in cod, their distribution and function, A175
- McFarlane, S. M.**
—; Anderson, H. M.; Tucker, S. J.; Jupp, O. J.; MacEwan, D. J. Unaltered intracellular calcium regulation in tumour-necrosis-factor-receptor-mediated apoptotic cell death, A28
- McFerran, N. V.**, See Prendergast, D. P.
- McGahon, A.**, See O'Gorman, D.
- McGibbon, N.**, See Tan, L. A.
- McGiven, J. D.**, See King, N.
- McGlenn, E. C.**
—; Narang, M.; Smyth, I.; Wainwright, B.J.; Wicking, C. A. Subcellular localization of patched and patched2 proteins, A464
- McGown, E.**, See Dennis, R. P.; Pugh, J.
- McGuire, J. N.**, See Arnvig McGuire, K.
- McHale, M.**, See Jethwa, V. K.
- McIntosh, J. M.**
—; Heffron, J. J. A. Calcium release from rat skeletal muscle sarcoplasmic reticulum induced by volatile organic solvents, A46
- McIntosh, K. B.**
—; Bonham-Smith, P. C. Complementation of a yeast 12S mutant by *Arabidopsis thaliana* ribosomal protein L23A, A211
- McKean, P.**, See Vaughan, S.
- McKenna, S.**, See O'Gorman, D.
- McKenna, W. J.**, See D'Cruz, L. G.
- McKeon, T. A.**
—; Chen, G. Q.; Lin, J.-T. Biochemical aspects of castor oil biosynthesis, 972
- McKie, A.**, See Darroch, P.
—; Alderton, F.; Darroch, P.; Pyne, N. J.; Pyne, S. Lipid phosphate phosphatases (LPP) 1 and 2 but not 3 limit the activation of extracellular signal regulated kinases (ERK1 and ERK2) by sphingosine 1-phosphate and lysophosphatidic acid, A279
- McKinley, M. C.**
—; McNulty, H.; McPartlin, J.; Strain, J. J.; Weir, D. G.; Scott, J. M. Riboflavin supplementation does not lower fasting homocysteine levels, A26
- McKinney, R. A.**, See Leuthäuser, K.
- McLauchlan, J.**, See Murphy, D. J.
- McLauchlan, J.**, See Pedraza-Díaz, S.
- McLoughlin, D. M.**
—; Lau, K.-F.; Irving, N.; Standen, C.; Brion, J. P.; Miller, C. C. J. The X11 and Fe65 proteins in Alzheimer's disease, A37
- McLoughlin, N.**
—; Engel, P. C. The use of proteases as a conformational probe on Xylanase Xln A from *Chaetomium thermophilum*, A420
- McMahon, J. M.**
—; Wells, K. E.; Maule, J.; Foster, K.; Wells, D. J. Studies of plasmid DNA expression in mouse skeletal muscle, A301

- McMahon, M.**, See Hayes, J. D.
- McMaster, C. R.**, See Henneberry, A. L.
- McNally, J. G.**, See Hager, G. L.
- McNulty, H.**, See McKinley, M. C.
- McParland, V.**, See Kad, N.
- McPartlin, J.**, See McKinley, M. C.
- McPherson, M. A.**, See Harris, C. M.; Stratford, F. L. L.
- McPherson, M. J.**, See Allardyce, C.; Firbank, S. J.; Kurtis, C.; Mahmoud, K. M. A. G.; Wilmot, C. M.
- ; Directed evolution of enzyme inhibitors, A53
- McRobert, L.**, See Parker, M. D.
- McVeigh, E.**
- ; An informed public: informed by whom?, A2
- McVey, J. H.**, See Davidson, C. J.
- Meade, G.**, See Sheehan, D.
- Medhurst, A. L.**
- ; Huber, P. A. J.; Mathew, C. G.
- Investigation of the functional pathway in Fanconi anaemia, A167
- Medicherla, R.**
- ; Leers-Sucheta, S.; Lua, Y.; Azhar, S.
- Impairment of NF- κ B activation in rat adrenal gland during aging, A170
- Medina, M. A.**, See Olmo, M. T.
- Medvedev, A. E.**, See Kulinsky, V. I.
- Medvedeva, L. V.**
- ; Popova, T. N.; Artukchov, V. G.; Pinheiro de Carvalho, M. A. A.
- The level of the free radical processes' products and NAD-iso-citrate dehydrogenase activity in blood of patients with myocardial infarction, A159
- Meesapyodsuk, D.**
- ; Reed, D. W.; Savile, C. K.; Buist, P. H.; Schäfer, U. A.; Ambrose, S. J.; Covello, P. S.
- Substrate specificity, regioselectivity and cryptoregiochemistry of plant and animal ω -3 fatty acid desaturases, 632
- Mehdighani, M.**, See Zarghami, N.
- Mehlert, A.**
- ; Ferguson, M. A. J.
- Analysis of the glycoforms of *Trypanosoma brucei* variant surface glycoproteins by matrix-assisted laser-desorption ionization-time of flight (MALDI-TOF)-MS, A74
- Mehtha, S. L.**, See Mandal, M. N. A.
- Mejanelle, L.**, See Turk, M.
- Mekhedov, S.**, See Ohlogge, J.; Thelen, J. J.
- Melamed, N.**
- ; Gilboa-Garber, N.
- The effects of ethanol and choline on *Pseudomonas aeruginosa* virulence factors and their autoinducers vary under different cultural conditions, A232
- Melkova, Z.**, See Bartosova, M.
- Meller-Harel, Y.**, See Verwoert, I.
- Mellouli, L.**, See Marzouki, N.
- Mellström, B.**, See Carrión, A. M.
- Melnikova, U. Y.**, See Kireev, R. A.
- Melo, P. S.**, See Belline, P.; Pinto, L. M. A.
- Meltola, N. J.**, See Soini, E.
- Melville, M. W.**, See Tan, S.-L.
- Mena, H.**, See Fishbein, W. N.
- Ménard, M.**, See Gontier, E.
- Mendez, F.**, See Fenton, B.
- Méndez-Zeel, M.**, See Rojas-Herrera, R.
- Mendoza, V.**, See Vilchis-Landeros, M. M.
- Mendoza-Rincon, J. F.**, See Soto-Cruz, I.
- Menge, M. D.**
- ; Makawiti, D. W.; Mulaa, F. J.; Otsyula, M. G.
- Isolation and partial characterisation of an HIV-like lentivirus from DeBrazza's monkey's *Cercopithecus neglectus*, A212
- Menon, M.**, See Koul, H. K.; Koul, S.; Reddy, P. V. G.
- Meram, I.**, See Bozkurt, A. I.
- Mercereau-Pujalon, O.**
- ; Beyond the genome of *Plasmodium falciparum*: a new balance between challenges and opportunities towards disease control, A112
- Merezhinskaya, N.**, See Fishbein, W. N.
- Merkiene, E.**
- ; Weinhold, E.; Klimašauskas, S.
- Kinetics of cofactor binding and catalytic loop movements of HhaI methyltransferase, A464
- Merkle, T.**, See Krohn, N. M.
- Merrick, M.**, See Thomas, G.
- Merry, T.**, See Sim, R. B.
- Mersberg, M. A.**, See Goffe, R. A.
- Merzlyak, M. N.**, See Kashulin, P. A.
- Meskiene, I.**, See Weingartner, M.
- Messabel, S.**
- ; Pheasant, A. E.; Anderson, D. N.; Wilson, K. C. M.; Fuchs, D.; Pall, H.; Hall, S. K.
- Pterin levels, cell mediated immunity and depression in old age, A346
- Mestre Prates, J. A.**
- ; Ribeiro, A. M. R.; Dias Correia, A. A.
- Suggestion for a major contribution of calpains (EC 3.4.22.17) to the endopeptidasic activity during rabbit meat ageing, A315
- Metspalu, A.**, See Lushnikov, A.
- Metzler, T.**, See Nemetz, C.; Zaiss, K.
- Meyer, M.**, See Skepu, A.
- M'hirsi, S.**, See Marzouki, N.
- Michaelson, L. V.**, See Beaudoin, F.; Longman, A. J.
- Michaud, A.**, See Siviter, R. J.
- Michelangeli, F.**, See Dyer, J. L.; Khan, S. Z.
- Micheli, L.**, See Killard, A. J.
- Michell, R.**, See Hughes, P.
- Michell, R. H.**, See McEwen, R. K.
- Michels, P. A. M.**, See Fothergill-Gilmore, L. A.
- Middleton, B.**, See Eaton, S.
- Mieczkowski, P.**, See Koprowski, P.; Podlaska, A.
- Miele, R.**
- ; Björklund, G.; Barra, D.; Simmaco, M.; Engström, Y.
- LPS-inducible expression of amphibian genes coding for antimicrobial peptides in the insect *mbn-2* cell line, A256
- ; Borro, M.; Fiocco, D.; Barra, D.; Simmaco, M.
- Cloning and biochemical characterization of a peptidylprolyl *cis/trans* isomerase from *Xenopus laevis* skin, A256
- Cloning and biochemical characterization of a peptidylprolyl *cis-trans* isomerase from *Xenopus laevis* skin, A492
- Miele, R.**
- ; Lipopolysaccharide (LPS)-inducible expression of amphibian genes encoding antimicrobial peptides in the insect *mbn-2* cell line, A444
- Miettinen, M.**, See Lushnikova, T.; Matikainen, S.
- Miettinen, S.**, See Lyakhovich, A.
- Miguel, B. G.**, See Martín, L.
- Mikheikin, A. L.**
- ; Zhuze, A. L.; Zasedatelev, A. S.
- Cyanine dyes as a new class of DNA minor-groove binders, A464
- Miki, K.**, See Kitano, K.
- Mikoshiba, K.**, See Natsume, T.
- Mikoyan, V. D.**, See Lobysheva, I. I.
- Mikulová, R.**
- ; Hainer, V.; Kunesová, M.; Paržková, J.; Slabá, S.
- Vitamin A consumption does not affect RMR and fasting RQ in severely obese subjects, A159
- Millanova, E.**, See Plaseska-Karanfilska, D.
- Milewski, S.**, See Kuszczak, D.
- Millar, J. K.**, See Taylor, M. S.
- ; Christie, S.; Anderson, S.; Taylor, M. S.; Semple, C. A. M.; Wilson-Annan, J. C.; James, R.; Devon, R. S.; Muir, W. J.; Blackwood, D. H. R.; Porteous, D. J.
- Identification and analysis of genes disrupted by a translocation segregating with schizophrenia, A302
- Millar, T.**, See Cook, S. J.
- Miller, C. C. J.**, See Lee, K. F.; Lee, W. C.; McLoughlin, D. M.
- Miller, R. A.**
- ; Immunosenescence: primer and prospectus, A3
- ; Telomere diminution as a cause of immune failure in old age: an unfashionable demerit, 241
- Miller, R. E.**, See Hadden, T. J.
- Milligan, G.**
- ; Visualising signal initiation and termination by G protein-coupled receptors, A137
- Millner, P. A.**, See Belkacemi, L.; Robinson, S. A.
- Mills, B.**, See Silwood, C.
- ; Grootveld, M.; Silwood, C.; Lynch, E.
- Salivary electron-donor consumption by oxidant-containing oral health-care products: a proton $^1\text{H-NMR}$ study, A45
- Mills, K.**, See Eaton, S.
- Mills, K. H. G.**, See Ryan, E. J.
- Mills, K. I.**, See Gilkes, A. F.
- ; Sweeney, M. C.; Austin, S. J.; Walsh, V.; Dann, E. J.; Burnett, A. K.
- Identification of genes over- and under-expressed in 32Dc13 cells expressing the AML1 fusion genes, A235
- Milne, K.**, See Roper, J. R.
- Milner-White, E. J.**
- ; Why teach bioinformatics?, A66
- Mimura, Y.**
- ; Church, S.; Ghirlando, R.; Lund, J.; Goodall, M.; Jefferis, R.
- The contribution of glycosylation to the stability and function of antibody molecules, A256
- ; Ghirlando, R.; Lund, J.; Goodall, M.; Jefferis, R.
- Contribution of glycosylation to the stability and function of antibody molecules, A75
- Minai-Tehrani, D.**
- ; Veissizadeh, M.; Keyhani, E.
- Interaction of azide and fluoride with KCN-cytochrome *d* complex in *Salmonella typhimurium*, A189
- Minakata, H.**, See Satake, H.
- Minchin, S. D.**, See Morsi, A. S.; Sanderson, A.; Tate, L. A.
- Mindukshv, I. V.**, See Ivanova, V. P.
- Mingcai, L.**
- ; Zuohua, F.; Dong, L.; Guimei, Z.
- Construction of expressing plasmids of recombinant FN polypeptides with triple-domain and characterization

- of the products expressed in *E. coli*, A174
- Minuchehr, Z.**
—; Goliaei, B.
Local propensity for different locations of an α -helix, A147
- Mion, B. J.**
—; Masterson, B. F.
An immunochemical study of the binding of blood coagulation proteins to artificial surfaces, A362
- Miova, B.**, See Kjovkarovska-Dinevska, S.
- Miquel, M.**
—; Towards the cloning of *GLYI*, 675
- Mirelman, D.**, See Rabinkov, A.
- Miroliael, M.**
—; Nemat-Gorgani, M.
Comparative studies on the behaviour of a thermophilic and a mesophilic alcohol dehydrogenase in organic media, A316
- Miron, T.**, See Rabinkov, A.
- Miroshnikov, A. I.**, See Ovchinnikova, T. V.
- Mirzabekov, A.**
—; Microarrays of gel immobilized compounds: massive parallel analyses of specific interactions and chemical and enzymatic reactions, A125
- Mishra, N. C.**, See Taylor, K. N.
- Misra, U. K.**, See Pizzo, S. V.
—; Gawdi, G.; Pizzo, S. V.
Cadmium-induced mitogenesis in macrophages is dependent on the generation of inositol (1,4,5)-trisphosphate, A269
- Mistry, M.**, See Wood, I. C.
- Mitev, S.**, See Kjovkarovska-Dinevska, S.
- Mittenberg, A. G.**
—; Evteeva, I. N.; Obukhova, A. D.; Kulitchkova, V. A.; Volkova, I. V.; Ermolaeva, J. B.; Tchimochoa, A. S.; Gauze, L. N.; Konstantinova, I. M.
The involvement of 26S-proteasomes in degradation of specific mRNAs in cells of different tissue specificity, A241
- Miura, R.**, See Sakaguchi, T.
- Miwa, I.**, See Toyoda, Y.
- Miyake, Y.**, See Nagamune, H.; Ohkura, K.
- Miyazono, K.**, See Esparza-Lopez, J.
- Mizerski, G. J.**, See Antosz, H. Z.
- Mizuno, H.**, See Fujimoto, Z.
- Mizuno, H.**, See Kuroki, Y.
- Mizuno, H.**, See Suvd, D.
- Mizusaki, K.**, See Karasaki, Y.
- Mnatsakanyan, N.**, See Bagramyan, K.
- Mochalova, E. S.**, See Alessenko, A. V.
- Modarressi, M. H.**
—; Taylor, K. E.; Wolfe, J.
Identification and characterisation of testis specific genes which are involved in spermatogenesis, A236
- Moffat, G. J.**, See Hayes, J. D.
- Moffatt, B.**, See Laich, A.
- Moffatt, J.**
—; Hashimoto, M.; Kojima, A.; Kennedy, D.O.; Matsui-Yuasa, I.
Association of caspase activation and down-regulation of polyamine levels in apoptosis induced by 1'-acetoxychavicol acetate in Ehrlich ascites tumour cells, A378
- Mohagheghi, M. A.**, See Azizi, E.
- Mohamed, A. O.**, See Abd elaal, D.
- Mohapatra, D. P.**
—; Singh, S.
ELISA is still the most sensitive diagnostic protocol for infectious toxoplasmosis: comparison with PCR diagnosis, A233
- Mohiti, J.**
—; Serum factors induced relocation of annexin V in the human osteosarcoma cell line MG-63, A296
- Moilanen, A.-M.**, See Jänne, O. A.
- Moll, H.**, See Ponte-Sucre, A. I.
- Moloney, M. M.**, See Weselake, R. J.
- Molotkovsky, J. G.**, See Zaitseva, L. G.
- Möncke-Buchner, E.**, See Reich, S.
- Monforte-González, M.**, See Rojas-Herrera, R.
- Monnerot, M.**, See Robainas Barcia, A.
- Montalto, G.**, See Cervello, M.
- Montecucco, C.**
—; Cell trafficking alterations caused by the *H. pylori* VacA toxin, A117
- Monteiro, A. C. O.**, See Campana, P. T.
- Montiel, J. L.**, See Vilchis-Landeros, M. M.
- Moon, H.**, See Smith, M.
- Moon, H. B.**, See Sohn, B. H.
- Moon, K.**, See Kim, S. S.
- Moon, Y. A.**
—; Lee, J. J.; Park, S. W.; Ahn, Y. H.; Kim, K. S.
Binding preference of the sterol regulatory element binding proteins determines the transactivation potency of rat ATP-citrate lyase promoter, A178
- Moore, C.**, See Slakeski, N.
- Moore, F.**
—; López Bernal, A.
Aberrant expression of myometrial myosin light chain kinase immunogens associated with preterm labour, A279
- Moore, G.**, See Gorski, S.
- Moore, K. H.**, See Panuganti, S. D.
- Moore, P. W.**, See Williamson, D. H.
- Moore, S.**, See Allsop, D.; Turnbull, S.
—; Huckerby, T. N.; Davies, Y.; El-Agnaf, O.; Allsop, D.
Effects of both (minus) and (+) isomers of nicotine on amyloidogenic peptide aggregation, A306
- Moore, T.**, See Finley, J. B.
- Moorhouse, M. J.**
—; Cserzo, M.
An alternative approach to the sequence-structure relationships in proteins, A147
- Moosavi Movahedi, A. A.**, See Sadeghi, M.
- Moraczewski, J.**, See Sobolewska, M.
- Moradas-Ferreira, P.**, See Marques, M.
- Moraes, D. L.**, See Campana, P. T.
- Moras, D.**
—; Transcription regulation by nuclear receptors: structure-function relationships, A105
- Morby, A.**, See Al-Malki, A.
- Moreau, R. A.**
—; Singh, V.; Nuñez, A.; Hicks, K. B.
Phytosterols in the aleurone layer of corn kernels, 803
- Moreira, R. A.**, See Lima, R. S. N.
- Moreira-Leite, F. F.**, See Bastin, P.
—; Bastin, P.; Kohl, L.; Gull, K.
Determination of gene function by inducible RNA interference, A217
- Morel, A. P.**, See Prevot, D.
- Moreno, A. J.**, See Abreu, R. V.
- Moreno-Sánchez, R.**, See Díaz-Mireles, E.
- Moreton, P.**, See Twine, S. M.
- Moretta, L.**
—; MHC class I-specific inhibitory receptors expressed by NK and T lymphocytes, A114
- Morgan, G. W.**
—; Jeffries, T. R.; Pal, A.; Hall, B. S.; Field, M. C.
Control of endocytosis in *Trypanosoma brucei*, A478
- Morgan, H. E.**, See Taylor, K. M.
—; Joyce, E.; Nicholson, R. I.; Taylor, K. M.
The breast cancer protein LIV-1: investigation of function using homologous family members, A223
- Morgan, J.**, See Nally, K.
- Mori, J.**, See Tamura, K.
- Mori, N.**, See Okumoto, M.
- Mori, S.**, See Selvakumar, P.
- Mori, Y.**, See Kasahara, M.
- Morimoto, N.**, See Kawabata, A.
- Morimoto, Y.**, See Nishiura, H.
- Morishima, I.**, See Tanaka, M.
- Morita, N.**
—; Tanaka, M.; Okuyama, H.
Biosynthesis of fatty acids in the docosahexaenoic acid-producing bacterium *Moritella marina* strain MP-I, 943
- Morita, Y.**, See Hibino, Y.
- Moritake, K.**, See Shingu, T.
- Moritz, R.**, See Lawrenson, I.
- Moriwaki, S.**, See Ohba, H.
- Moriwaki, S.**, See Park, S.-S.
- Moriwaki, S.**
—; Ohba, H.; Nakamura, O.; Sumi, T.; Park, S.; Yasuda, S.; Yamasaki, N.; Suzuki, M.; Tsubouchi, H.
Abrin-A-induced cytotoxicity and apoptosis against human leukemic cell lines, A379
- Moro, C.**, See Comin, B.
- Morozova, O. V.**, See Vershinina, O. A.
- Morris, C. J.**, See Naughton, D. P.
- Morris, D.**, See Green, M. T.
- Morris, E. P.**
—; Hankamer, B. D.; Barber, J.
Three-dimensional structure of photosystem II determined by electron crystallography, A79
- Morris, G. E.**, See Holt, I.
- Morris, H. R.**, See Koistinen, H.
- Morris, M. B.**, See Toonkool, P.
- Morrison, E. Y.**, See Grindley, P. B.
- Morrison, L.**
—; Pierotti, A. R.
Regulation of expression of thimet oligopeptidase by steroids and other modulators, A83
- Morrison, R. G.**
—; Mortishire-Smith, R. J.; Doig, A. J.
Prediction of enzyme class in non-homologous sequences using chemometrics, A73
- Morrison, S. M.**, See Hoyle, C. K.
- Morrison, V.**, See Parkinson, E. K.
- Morse, M. A.**, See Wagner, S. E.
- Morshead, T. C.**
—; Bogoyevitch, M. A.; Langdon, W. Y.
Involvement of the ubiquitin-associated (UBA) domain in the E3 ligase activity of the proto-oncogene *c-Cbl*, A465
- Morsi, A. S.**
—; Chipman, J. K.; Minchin, S. D.
Identification of an RXR response element in connexin 32 promoter, A236
- Mortazavi, M.**, See Rahbani, M.
- Mortishire-Smith, R. J.**, See Morrison, R. G.
- Morvarid, M.**
—; Rezaei-Tavirani, M.
Study of conformation changes in hemoglobin A using cationic and anionic surfactants, A412
- Mosala Molette, J.**
—; Sequences flanking hypersensitive sites 2, 3 and 4 of the β -globin locus control region are required for the optimal function of the hypersensitive sites cores, A451

- Moses, E. K., *See* Freed, K. A.
 Moskaleva, E., *See* Severin, E.
 Mostafavi-Pour, Z.
 —; Askari, J. A.; Humphries, M. J.
 Cooperation between proteoglycans and integrins for focal contact formation, A269
 Motamed, N., *See* Behboodi, B. Sh.
 Motherway, M., *See* Fitzgerald, K.
 Motojima, K.
 —; Fujishiro, K.; Sato, O.; Kuriki, C.; Fukui, Y.
 Tissue-specific and PPAR-regulated expression of fatty acid transport-related proteins in various tissues of mouse, A393
 Motokawa, Y., *See* Fujiwara, K.
 Motokawa, Y., *See* Okamura-Ikeda, K.
 Motoki, T., *See* Hasegawa, S.
 Mottram, J. C., *See* Hammarton, T. C.; Naula, C.
 Moukhametchina, N. U., *See* Tarchevsky, I. A.
 Mourato, M. P., *See* Martins, L. L.
 Moya, M. A.
 —; Herrera, R.
 Biochemistry of the ripening Chilean papaya fruit, A404
 Mpofo, N.
 —; Mashonganyika, C. N.; Masola, B.
 Glutamine metabolizing enzymes in *Theileria parva* infected bovine lymphoblastoid cells, A195
 Mrksich, M., *See* Trotter, J. A.
 Muchembled, J.
 —; Lounes-Hadj Sahraoui, A.; Grandmougin-Ferjani, A.; Sancholle, M.
 Effect of age on the fatty acid content of *Blumeria graminis conidia*, 875
 Mücke, M., *See* Reich, S.
 —; Lurz, R.; Mackeldanz, P.; Behlke, J.; Krüger, D. H.; Reuter, M.
 Imaging DNA-looping by *EcoRII*: a single amino acid substitution uncouples DNA target recognition from cooperative DNA interaction and phosphodiester bond cleavage, A328
 Muddle, J. R.
 —; Williams, S. L.; Hart, P.E.; Schapira, A. H. V.; Taanman, J.-W.
 Development of a cytometric analysis system for adherent cell cultures from patients with mitochondrial disorders, A364
 Mudher, A. K., *See* Chapman, S. C.
 Mueller, C., *See* Zeidler, J.
 —; Schwender, J.; Zeidler, J.; Lichtenthaler, H. K.
 Properties and inhibition of the first two enzymes of the non-mevalonate pathway of isoprenoid biosynthesis, 792
 Muff, R., *See* Leuthäuser, K.
 Muir, W. J., *See* Millar, J. K.; Taylor, M. S.
 Mukai, H., *See* Sha, S.
 Mukerji, P., *See* Das, T.
 Mukherjee, A. B., *See* Wang, C.-Y.
 Mukherjee, K. D., *See* Gandhi, N. N.
 Mukherjee, S., *See* Das, S. K.
 Mukherjee, S. B.
 —; Shaha, C.
 Glutathione S-transferase isoforms in seminiferous tubular fluid: tissue distribution and sex steroid binding by rat GST MI, A316
 Mukhtarova, L. S., *See* Grechkin, A. N.
 Mulaa, F. J., *See* Menge, M. D.
 Mulcahy, J. V.
 —; Reed, C. A. B.; Riddell, D. R.; Owen, J. S.
 The cytoplasmic tail of scavenger receptor class B type II (SR-BII) interacts with the SH3 domain of phospholipase C- γ , A269
 Mullan, B. M.
 —; Kenny-Walsh, E.; Shanahan, F. L.; Fanning, L. J.
 Inferred hepatitis C virus quasi-species diversities are profoundly influenced by choice of DNA polymerase in reverse transcriptase (RT)-PCR, A42
 Mullan, L. J.
 —; Webster, S. P.; Alexeev, D. G.; Baxter, R. L.
 Hyperthermostable AONS: the first committed enzyme in *E. coli* biotin biosynthesis has a tropical relative, A316
 Mullen, A. J., *See* Brand, N. J.
 Müller, M., *See* Sánchez, L. B.
 Müller, W. G., *See* Hager, G. L.
 Mullins, J., *See* Thomas, G.
 Mullins, J. G. L., *See* Knight, G. L.
 —; Knight, G. L.; Sarakinou, K. S.; Antoniw, J. F.
 Conservation of functional site structure across different membrane transport protein families, A40
 Mulloy, B., *See* Pellegrini, L.
 Multhaup, G., *See* Hesse, L.
 Mumby, S., *See* Suzuki, K.
 Muñoz, F. M.
 —; Martin, M. E.; Salinas, M.; Fando, J. L.
 Carbonyl cyanide *p*-trifluoromethoxyphenylhydrazone (FCCP) induces activation of PKR kinase and inhibition of protein synthesis in differentiated PC12 cells, A345
 Munro, J., *See* Parkinson, E. K.
 Muntyan, M. S., *See* Severina, I. I.
 Mura, C., *See* Arredondo, M.
 Murai, I., *See* Nishida, S.
 Murakami, T., *See* Nakashima, H.
 Murakami, T., *See* Yao, M.
 Muramatsu, H.
 —; Zou, K.; Sakaguchi, N.; Ikematsu, S.; Sakuma, S.; Muramatsu, T.
 LDL receptor-related protein and proteoglycans as components of the midkine receptor, A269
 Muramatsu, M., *See* Kajino, T.
 Muramatsu, T., *See* Muramatsu, H.
 Muranova, T. A.
 —; Shvyrkova, I. G.
 Anti-adhesive activity of plasmin: proteolytic specificity of plasmin in relation to adhesive proteins, A86
 Murata, N., *See* Slabas, A. R.; Suzuki, I.
 Murphy, B. J.
 —; Zheng, R. Q.; Nye, K. E.
 Effect of early HIV-1 infection on expression and function of the chemokine receptor CXCR4, A30
 Murphy, D. J., *See* Giannoulia, K.
 —; Hernandez-Pinzon, I.; Patel, K.; Hope, R. G.; McLauchlan, J.
 New insights into the mechanisms of lipid-body biogenesis in plants and other organisms, 710
 Murphy, E., *See* Dixon, G.
 Murphy, H. C., *See* Burns, S. P.
 Murphy, S. M., *See* Cantatore, J. L.
 Murray, J. M., *See* Kurtis, C.
 Murray, J. W., *See* Nieduszynski, C. A.
 Murray, N. E., *See* Doronina, V. A.
 Murthy, S. N., *See* Aparna, V.
 Musa, H., *See* Booth, Z. A.
 Mushtaq, A., *See* Sandy, J.
 Mushtaq, A.
 —; Payton, M.; Sandy, J.; Pompeo, F.; Delomenie, C.; Dupret, J. M.; Sinclair, J.; Noble, M.; Yu, T.; Sim, E.
 Identification of arylamine N-acetyltransferase like sequences in prokaryotic species, A420
 Musienko, N., *See* Taran, N.
 Mustaeva, L. G., *See* Ovchinnikova, T. V.
 Mustafayev, N.Sh., *See* Shahmuradov, I. A.
 Mutter, W., *See* Nemetz, C.; Zaiss, K.
 Muzio, M.
 —; Polentarutti, N.; Bosisio, D.; Manoj Kumar, P. P.; Mantovani, A.
 Toll-like receptor family and signalling pathway, 563
 —; Toll-like receptor family and signalling pathway, A489
 Myśliwa-Kurzdziel, B., *See* Jemiola-Rzemieńska, M.
 Mykhaylenko, N. F.
 —; Fomishina, R. M.; Los, S. I.; Zolotareva, E. K.
 Dependence of cyanobacterial membrane lipid and pigment composition on exogenous glucose concentration, A398
 Myler, P.
 —; Genomic organization and gene function in *Leishmania*, A472
 Myler, P. J.
 —; Sisk, E.; McDonagh, P. D.; Martinez-Calvillo, S.; Schnauffer, A.; Sunkin, S. M.; Yan, S.; Madhubala, R.; Ivens, A.; Stuart, K.
 Genomic organization and gene function in *Leishmania*, 527
 Myllyharju, J.
 —; Expression of recombinant human collagens in the yeast *Pichia pastoris*, A55
 —; Nokelainen, M.; Vuorela, A.; Kivirikko, K. I.
 Expression of recombinant human type I-III collagens in the yeast *Pichia pastoris*, 353
 Nabih, I. M.
 —; Biochemical modification of protein biosynthesis, A256
 Nabika, T., *See* Nakamura, M.
 Nabika, T.
 —; Terashima, M.; Hosokawa, Y.; Imada, K.; Nakashima, Y.; Nariai, Y.; Tanigawa, Y.
 Effect of taurine on platelet derived growth factor (PDGF)-induced *c-fos* and *c-jun* expression and MAP kinase activation in NIH/3T3 cells, A202
 Naderimanes, H., *See* Sadeghi, M.
 Nagai, K., *See* Matsuki, T.
 —; Molecular evolution of Sry and Sox genes, A186
 Nagamune, H., *See* Ohkura, K.
 —; Ohnishi, O.; Hattori, K.; Ohkura, K.; Goto, T.; Tsuge, H.; Hirota, K.; Katanuma, N.; Miyake, Y.; Maeda, T.; Kourai, H.
 Human-specific cell lysis by intermedilysin, an exotoxin of *Streptococcus intermedius*, A233
 Nagaraja, V., *See* Basak, S.
 Nagaraja, V., *See* Unniraman, S.
 Nagy, J. M., *See* Eady, N. A. J.; Jesmin Nagy, L., *See* Love, J. D.
 Nahrevanian, H.
 —; Pickering-Brown, S.; Owen, F.; Dascombe, M. J.
 Induction of nitric oxide synthase 2 (iNOS) mRNA in target organs of murine malaria, A482
 Nakagawa, A., *See* Yao, M.
 Nakagawa, N.
 —; Sugahara, M.; Masui, R.; Kato, R.; Fukuyama, K.; Kuramitsu, S.

- Crystal structure of a nucleotide excision repair enzyme UvrB from *Thermus hermophilus* HB8, A167
- Nakagawa, S.**, See Nishida, S.
- Nakajima, T.**, See Hossain, M. A.
- ; Wang, B.; Ohyama, H.; Yukawa, O.; Hama-Inaba, H.
- Cross talk between protein kinase C activation and radiation-induced apoptosis signalling pathways in murine thymic lymphoma cells (3SB), A379
- Nakamura, A.**, See Tanokura, M.
- Nakamura, H.**, See Furukawa, K.
- Nakamura, K.**, See Sugino, H.
- Nakamura, M.**
- ; Nabika T.; Tanigawa, Y.
- Protein tyrosine phosphorylation induced by ubiquitin-like polypeptide in murine T helper clone type 2, A432
- Nakamura, N.**
- ; Yamamoto, A.; Wada, Y.; Futai, M.
- Syntaxin 7 mediates endocytic trafficking to late endosomes, A353
- Nakamura, O.**, See Moriwaki, S.; Ohba, H.
- Nakamura, O.**, See Park, S.-S.
- Nakamura, Y.**, See Kanagawa, M.
- Nakamura, Y.**, See Sasaki, Y.
- Nakanishi, M.**, See Furuno, T.
- ; Hibi, T.; Hirashima, N.
- Rat basophilic leukemia cells express syntaxin-3 and VAMP-7 in granule membranes, A398
- Nakasako, M.**, See Funahashi, J.
- Nakashima, H.**
- ; Kotake, K.; Nonami, T.; Naruse, T.; Murakami, T.; Shimomura, Y.
- Expression of pyruvate dehydrogenase kinases (PDK) in human livers, A195
- Nakashima, K.**
- ; Hagiawra, T.; Hojo, I.; Ueno, A.; Yamada, M.
- Changes of nuclear shape induced by overexpression of peptidylarginine deiminase in HeLa cells, A379
- Nakashima, Y.**, See Nabika, T.
- Nakatogawa, H.**, See Ishizuka, M.
- Nakayama, H.**, See Natsume, T.
- Nakayama, K.**, See Kanematsu, T.
- Nalivaeva, N. N.**
- ; Lavrenova, S.M.; Plesneva, S. A.; Zhuravin, I. A.
- Analysis of different forms of AChE in the cortex and striatum of rats after prenatal hypoxia, A345
- ; Turner, A. J.
- Effect of cholinergic agonists on secretion of acetylcholinesterase by human neuroblastoma SH-SY5Y cells, A353
- Nally, K.**
- ; O'Connell, J.; Morgan, J.; Collins, J. K.; O'Sullivan, G.; Shanahan, F.
- Alteration in the ratio of c-Myc to mutant p53 is a phenotypic trait of epithelial cells committed to die by apoptosis, A29
- Namlot, V. A.**, See Berezovsky, I. N.
- Naowaratwattana, W.**, See Boonsiri, P.
- Napier, J.**, See Sayanova, O.
- Napier, J. A.**, See Beaudoin, F.; Longman, A. J.; Whitney, H.
- Narang, M.**, See McGlenn, E. C.
- Narang, R.**, See Chhabra, S.
- Naranjo, J. R.**, See Carrión, A. M.
- Narial, Y.**, See Nabika, T.
- Narumiya, S.**
- ; Signal transduction and physiological roles of the small GTPase Rho and Rho effectors, A137
- Naruse, T.**, See Nakashima, H.
- Nash, A. A.**, See Selvarajah, S.
- Nash, T. E.**, See Sánchez, L. B.
- Natalia, D.**
- ; Biochemical analysis of yeast protein disulphide isomerase, A452
- Nathan, I.**, See Lichsteinstein, A.
- Natsume, T.**
- ; Nakayama, H.; Jansson, O.; Isobe, T.; Takio, K.; Mikoshiba, K.
- Integration of biomolecular interaction analysis and mass spectrometric amino acid sequencing, A262
- Naughton, D. P.**
- ; Threadgill, M. D.; Morris, C. J.
- Novel hypoxia-selective drug delivery systems, A203
- Naula, C.**
- ; Ford, R. J.; Mottram, J. C.
- Analysis of *Trypanosoma brucei* cyclin-dependent kinases, A482
- Naumov, J.**, See Plaseska-Karanfilska, D.
- Navakauskienė, R.**, See Treigyte, G.
- Navarro, M.**, See Vaughan, S.
- Navarro, R.**, See Martín, C.
- Naydun, S. N.**
- ; Demidchik, V. V.
- Modifications of plasmalemma ion channels under long-term cell exposure to high temperature, A393
- Nayyar, T.**
- ; Hood, D. B.
- In utero* exposure to dioxin modulates Sp1 developmental expression profiles in rat brain, A345
- Nazarenko, Z. N.**, See Petrovich, Y. A.
- Negri, R.**
- ; Buttinelli, M.; Panetta, G.; De Arcangelis, V.; Di Mauro, E.; Travers, A.
- Helical repeat of DNA in the nucleosome core particle, 373
- Negro, A.**
- ; Massimino, M.; Bertoli, A.; Ballarin, C.; Sorgato, M. C.
- The bovine prion protein in live cells, A347
- Nelioudova, A.**, See Guzhova, I.
- Nelson, A.**, See Williams, G.
- Nelson, G.**, See Paraoan, L.
- Nelson, J.**, See Andrews, A.-L.; Donaldson, E.
- Nemat-Gorgani, M.**, See Hosseinkhani, S.; Khajeh, K.
- Nemat-Gorgani, M.**, See Miroliaei, M.
- Nemeth, A.**
- ; Pocsik, M.; Svingor, A.; Dobo, J.; Magyar, C.; Gal, P.; Zavodszky, P.
- An extra inter-subunit ion pair increases the thermal stability of an *Escherichia coli* 3-isopropylmalate dehydrogenase mutant, A465
- Nemetz, C.**, See Zaiss, K.
- ; Watzele, M.; Witzemann, S.; Buchberger, B.; Metzler, T.; Zaiss, K.; Fernholz, E.; Mutter, W.
- Optimization of the translation initial region of prokaryotic expression vectors for high level *in vitro* protein synthesis, A236
- Nemos, C.**
- ; Remy-Martin, J. P.; Cypriani, B.; Jouvenot, M.; Adami, P.
- Characterization of a SV40 T antigen immortalized guinea-pig endometrial glandular epithelial cell line (IGEC-1) and *c-fos* regulation by 17 β -estradiol (E₂), A296
- Neuhoff, C.**, See Gellerich, F. N.
- Neve, R. L.**
- ; Amyloid precursor protein (APP) and the p21-activated kinase PAK3 interact to mediate apoptosis in neurons, A14
- Nevinsky, G.**
- ; Baranovskii, A.; Matushin, V.; Gal'vita, A.; Vlassov, A.; Ershova, N.; Buneva, V.
- Variability of substrate specificity of antibodies from the blood of patients with different autoimmune and viral diseases in hydrolysis of DNA and RNA, A257
- Nevinsky, G. A.**, See Fedorova, O. S.; Ishchenko, A. A.
- New, K. J.**
- ; Eaton, S.; Spitz, L.; Elliott, K. R. F.; Quant, P. A.
- In vitro* hepatocyte models of early stages of neonatal sepsis, A26
- Newbold, C.**
- ; Title to be confirmed, A474
- Newbold, R. J.**
- ; Raux, E. C.; Walker, C. E.; Wilkie, S.E.; Hunt, D. M.; Bhattacharya, S. S.; Warren, M. J.
- Why a new mutation in human GCAP1 causes retinal degeneration, A380
- Newbury, H. J.**, See Wilkes, T. M.
- Newby, A. C.**, See Birkett, S. D.
- Newcombe, J.**
- ; Patel, B.; Patel, S.; Hayes, N. V. L.; Baines, A. J.
- Abnormal expression of axonal submembranous cytoskeletal components in multiple sclerosis lesions, A346
- Newgard, C.**
- ; Metabolic regulatory mechanisms in liver and pancreatic islets revealed by genetic engineering, A99
- Newo, A.**, See Titanji, V. P. K.
- Newsholme, P.**, See Byrne, P.; Conroy, S.; Dixon, G.; Kelly, M. T.; Shine, A.
- Newton, D.**
- ; Choi, S.; Wang, Y.; Marsden, P.
- Human neuronal nitric oxide synthase: unique mRNA diversity mediates translational control, A465
- Newton, P.**, See Dixon, G. L. J.
- Newton, P. M.**
- ; Wolowacz, R. G.; Wood, E. J.
- Activation of diacylglycerol (DAG)-independent protein kinase Cs (PKCs) inhibit fibroblast-mediated collagen gel contraction, A85
- Neyfakh, A. A.**, See Vazquez-Laslop, N.; Ward, A.
- ; Recognition of multiple drugs by a single protein: a trivial solution of an old paradox, A65
- Nezami-Ghorbani, A.**, See Keyhani, E.
- Ng, C.**, See McAinsh, M. R.
- Ng, C. K.**, See Spiro, R. C.
- Ng, F.**, See Gianello, R.; Libinaki, R.
- Ng, F.**, See Ogru, E.
- Niaura, G.**, See Vagonis, A.
- Nichol, A. W.**, See Steel, C. C.
- Nicholas, G. D.**, See Jeanplong, F.
- Nicholls, P.**, See Svistunenko, D. A.
- ; A moment in time: Keilin, Warburg, and the respiratory chain, March 21 1932, A144
- Nicholson, R. I.**, See Morgan, H. E.; Taylor, K. M.
- Nicol, D. M.**
- ; Wilson, M. T.; Alderton, W. K.; Cooper, C. E.
- Binding of 1400W, an isoform specific inhibitor, to the haem domain of inducible nitric oxide synthase, A316
- Nicolaou, A.**, See Blackburn, A.
- Nie, Y.**
- ; Wang, W.; Zhang, P.
- The ultrastructure of dinoflagellate *Cryptothecodinium cohnii* using electron microscopy, A251

- ; Xu, Q.; Li, M.
Observation of retrovirus-like particles in cell lines of *Drosophila* using electron microscopy, A251
- Nieduszynski, C. A.**
—; Murray, J. W.; Carrington, M.
C. elegans contains a single cyclin A gene but many cyclin A pseudogenes, A369
- Nierhaus, K. H.**, See Agrawal, R. K.
- Nikandrov, V. N.**
—; Pyzhova, N. S.; Lukashevitch, V. S.; Lukashevitch, I. B.; Agurkov, A. V.; Davydovsky, A. G.; Shpak, G. A.
Functional properties of nerve growth factor molecule, A329
- Nikolau, B. J.**, See Fatland, B.
- ; Oliver, D. J.; Schnable, P. S.; Wurtele, E. S.
Molecular biology of acetyl-CoA metabolism, 591
- Nilsson, T.**, See Danielsson Thorell, H.; Stenklo, K.
- Nirasawa, S.**, See Selvakumar, P.
- Nirasawa, Y.**, See Sakai, T.
- Nirthanan, S.**
—; Gopalakrishnakone, P.; Gwee, M. C. E.; Khoo, H. E.; Cheah, L. S.
Acetylcholine is present in the venom of the black scorpion *Heterometrus spinifer*, A437
- Nirthanan, S. B. C.**, See Scrivivasan, K. N.
- Nishi, Y.**, See Sha, S.
- Nishida, E.**
—; Regulatory mechanisms of MAP kinase pathways, A142
- Nishida, I.**, See Slabas, A. R.
- Nishida, S.**
—; Murai, I.; Nakagawa, S.
Effect of melatonin on fatty acid metabolism of plasma and hepatic lipids in NIDDM rats, A196
- Nishida, T.**
—; Tanaka, H.; Yasuda, H.
Mammalian Smt3a, b-specific isopeptidase 1 (SMT3IP1) localized in the nucleolus, A370
- Nishikawa, H.**, See Kawabata, A.
- Nishimura, T.**, See Kurose, K.
- Nishino, H.**
—; Ishibashi, T.
Site-directed mutagenesis in conserved histidine residues of sterol C⁵-desaturase molecule, A343
- Nishio, M.**, See Furuno, T.
- Nishioka, W.**, See Th'ng, J.
- Nishiura, H.**, See Tamura, K.
—; Tamura, K.; Morimoto, Y.; Imai, H.
Characterization of sphingolipid long-chain base kinase in *Arabidopsis thaliana*, 747
- Nishiwaki, C.**, See Uesugi-Hayakawa, R.
- Nisiwaki, C.**, See Kuroki, Y.; Yoshinaga, E.
- Nitsch, R. M.**
—; Regulation of gene expression by muscarinic acetylcholine receptors, A17
- Nobel, C. S. I.**
—; Abrahmsen, L. A.
Purification and characterization of recombinant human and rat 11beta-HSD1 enzymes, A329
- Noble, M.**, See Mushtaq, A.
- Noble, M. E. M.**, See Sandy, J.
- Noble, S. P.**
—; Pheasant, A. E.; Pall, H. S.
Effects of neopterin on cell death in neuronal and glial cells in culture, A346
- Noda, N.**, See Kamisaka, Y.
- Noehringer, C.**
—; Scheel, D.; Blée, E.
Lipoxygenase isoforms in elicitor-treated parsley cell suspension cultures, 827
- Noguchi, T.**, See Inagaki, K.; Takada, T.
- Nogueira, M.**, See Bugía, M. B.; Salgado, F. J.
- Noiriel, A.**, See Bouvier-Navé, P.
- Nokelainen, M.**, See Myllyharju, J.
- Nokhrina, K.**, See Novotna, Z.
- Nokihara, K.**, See Hori, S.
- Nolan, J.**, See Dixon, G.
- Nomiyama, H.**, See Sakaguchi, T.
- Nomoto, A.**, See Azhar, S.
- Nomura, A.**, See Kuroki, Y.
- Nomura, Y.**, See Sakai, T.
- Nonami, T.**, See Nakashima, H.
- Nooman, Z. M.**, See Abdalla, E. M.
- Norman, U. M.**, See Smith, A. I.
- Normukhamedova, N. F.**, See Shamansurova, Z. M.
- Notarbartolo, M.**, See Cervello, M.
- Noursadeghi, M.**
—; Bickerstaff, M.; Herbert, J.; Cohen, J.; Pepys, M.
The acute phase response enhances resistance to bacterial infections, A489
- Novak, P.**, See Pavlicek, J.
- Novello, J. C.**, See Carvalho, D. D.
- Novello, J. C.**, See Di Ciero, L.
- Novello, J. C.**, See Di ciero, L.
- Nover, L.**, See Heerklotz, D.
- Novotna, Z.**
—; Valentova, O.; Martinec, J.; Feltl, T.; Nokhrina, K.
Study of phospholipases D and C in maturing and germinating seeds of *Brassica napus*, 817
- Novotny, J.**, See Kleibl, Z.
- Nowak, T.**, See Ramirez-Silva, L.
- Nowosielska, A.**
—; Grzesiuk, E.
Reversion of the *argE3* ochre mutation in *Escherichia coli* AB1157 strain as a useful tool for studying stationary phase mutations, A167
- Ntwasa, M.**
—; Mather, A.; Rees, J. D.
Identification of a member of the DWNN superfamily in *Drosophila melanogaster*, A380
- Nukina, N.**, See Tanaka, M.
- Núñez, A.**, See Moreau, R. A.
—; Foglia, T. A.; Piazza, G. J.
Anaerobic lipoxygenase activity from *Chlorella pyrenoidosa*, 950
- Nunez, M. T.**, See Arredondo, M.
- Nurse, P.**
—; Cell cycle control, A129
- Nussenzweig, M.**
—; Immunoglobulins and B cell development, A487
- Nye, K. E.**, See Murphy, B. J.
- Nygren, M.**, See Tammela, P.
- Nykiforuk, C. L.**, See Weselake, R. J.
- Obama, T.**, See Tsukamoto, K.
- Obata, S.**, See Kajino, T.
- Obayashi, M.**
—; Shimomura, Y.; Oshida, Y.; Sato, Y.
Regulation of rat mitochondrial branched-chain 2-oxo acid dehydrogenase (BCODH) kinase activity by estradiol, A196
- Obibuzor, J. U.**, See Abigor, R. D.
- Obien, S. R.**, See Aldemita, R. R.
- Obolenski, I. A.**, See Petrovich, Y. A.
- Obrepalska, A.**
—; Kedzia, A.; Gozdicka-Jozefiak, A.
Analysis of the structure of GHR and IGF-1 genes in children with growth disorders, A279
- O'Brien, M.**, See Bermingham, J.; Doyle, V.
- O'Brien, N. M.**
—; Cytotoxicity, genotoxicity and oxidative reactions in cell-culture models: modulatory effects of phytochemicals, A7
—; Woods, J. A.; Aherne, S. A.; O'Callaghan, Y. C.
Cytotoxicity, genotoxicity and oxidative reactions in cell-culture models: modulatory effects of phytochemicals, 22
- Obsil, T.**, See Gakh, O.
- Obtulowicz, T.**, See Plochocka, D.
- Obuchi, K.**, See Kaneko, H.
- Obukhova, A. D.**, See Mittenberg, A. G.
- O'Callaghan, Y. C.**, See O'Brien, N. M.
- Ochi, K.**, See Matsubara, K.
- Ochiai, M.**, See Yamada, M.
- Ociepa, M.**
—; the effect of environmental oestrogens on the expression of the *CYP1A1*, *CYP1A2*, *CYP3A4* and *CYP3A5* genes in he oestrogen-dependent cell line MCF-7, A465
- O'Connell, J.**, See Nally, K.
- O'Connell, P. J.**
—; O'Sullivan, C. K.; Guilbault, G. G.
Development of a biosensor to determine L-lysine concentration in food, A44
- O'Connor, R.**, See Buckley, D.; O'Riordan, T.; Walsh, M.; Walsh, P. T.
—; Fennelly, C.; Krause, D.
Regulation of survival signals from the insulin-like growth factor-I receptor, 47
—; Regulation of survival signals from the insulin-like growth factor-I receptor, A13
- Oda, M.**, See Okumura, T.
- Odajima, T.**, See Onishi, M.
—; Onishi, M.
The similarities and differences among eosinophil peroxidase, lactoperoxidase, myeloperoxidase and saliva peroxidase systems that constitute a xenobiotic metabolism and disposition pathway in the body's self-defence system, A329
- O'Donovan, C. N.**
—; Cotter, T. G.
Prion peptide stimulates apoptosis in human neuronal cells, A27
- Odriozola, L.**, See Cabodevilla, J. F.
- Oel, B. L.**, See Akhmaloka, A.
- Offenbäusser, A.**, See Yeung, C. K.
- Offterdinger, M.**
—; Retinoids and heregulin synergistically induce branching morphogenesis of breast cancer cells cultivated in three-dimensional collagen gels, A455
- Ofner, L.**
—; Hooper, N. M.
Role of cys-43 and the C-terminal domain in the structure and function of murine aminopeptidase A, A81
- Ogata, M.**, See Watanabe, M.
- Ogawa, S.**, See Okumoto, M.
- O'Gorman, D.**
—; McGahon, A.; Knox, K.; McKenna, S.; Cotter, T. G.
Phosphoinositide 3-kinase survival signals contribute to multidrug resistance in myeloid leukaemia independently of Bad heterodimer formation, A27
- Ogru, E.**, See Gianello, R.; Libinaki, R.
- Ogru, E.**
—; Libinaki, R.; Heffernan, M.; Jiang, W. J.; Gianello, R.; Ng, F.

- A conformational and biological analysis of anti-obesity peptides derived from human growth hormone, A421
- Oh, D.-Y.**, See Kim, J.-H.
- Oh, J.**, See Baker, A.
- ; Lopez-Huertas, E.; Charlton, W.; Baker, A.
Cloning and characterization of Pex14 from higher plants, A79
- Oh, J. S.**, See Kim, H. Y.
- Ohama, K.**, See Taguchi, T.
- O'Hara, P.**
—; Slabas, A. R.; Fawcett, T.
Expression of fatty acid and lipid biosynthetic genes, 617
Modulation of fatty acid biosynthesis by antisense β -keto reductase expression, 613
- Ohba, H.**, See Moriwaki, S.
- Ohba, H.**, See Park, S.-S.
- Ohba, H.**
—; Nakamura, O.; Sumi, T.; Park, S.; Yasuda, S.; Moriwaki, S.; Yamasaki, N.; Tanaka, T.
Polyphenol-induced cytotoxicity and apoptosis in human leukemic cell lines, A380
- Ohgi, K.**
—; Kodaka, A.; Iwama, M.; Tusji, T.; Irie, M.; Inokuchi, N.; Koyama, T.
Modification of the base specificity of B2 base recognition site of RNase Rh by site-directed mutagenesis of Q32 and S93, A262
- Ohkura, K.**, See Nagamune, H.
- ; Goto, T.; Hattori, K.; Ohnishi, O.; Tsuge, H.; Katunuma, N.; Hiroto, K.; Miyake, Y.; Kourai, H.; Nagamune, H.
Structural analysis of a human specific cytosolin intermedilysin from *Streptococcus intermedius* UNS46, A233
- Ohlendieck, K.**, See Culligan, K.; Lennon, N.
- Ohlrogge, J.**
—; Pollard, M.; Bao, X.; Focke, M.; Girke, T.; Ruuska, S.; Mekhedov, S.; Benning, C.
Fatty acid synthesis: from CO₂ to functional genomics, 567
- Ohlrogge, J. B.**, See Thelen, J. J.
- Ohm, T. G.**, See Bonkale, W. L.
- ; Apolipoprotein E and β -amyloid: signals and effects, A16
- Ohnishi, O.**, See Nagamune, H.; Ohkura, K.
- Ohno, H.**
—; Kizaki, T.; Suzuki, K.; Hitomi, Y.; Iwabuchi, K.; Onoe, K.; Haga, S.; Ookawara, T.; Suzuki, K.; Taniguchi, N.
Csk overexpression up-regulates activation of AP-1 by LPS, A279
- Ohta, H.**, See Maréchal, E.; Sasaki, Y.; Yamaryo, Y.
- Ohtake, A.**, See Balaji, R. A.
- Ohtani, S.**, See Hori, S.
- Ohto, C.**, See Kajino, T.
- Ohyama, H.**, See Nakajima, T.
- Ohyama, K.**
—; Yuan, B.; Uchide, N.; Bessho, T.; Yamakawa, T.
Apoptotic cell death in the chorion laeve tissues of human fetal membrane at the month of normal parturition and its mechanism, A381
- Ohyama, T.**, See Matsuda, K.
- Oka, T.**, See Kurose, K.
- Okada, M.**, See Matsuki, T.
- Okadome, T.**, See Esparza-Lopez, J.
- Okamoto, T.**, See Darjania, L.; Okuyama, H.
- Okamura-Ikeda, K.**, See Fujiwara, K.
- Okamura-Ikeda, K.**
—; Fujiwara, K.; Motokawa, Y.
Investigation of functional aspects of the N-terminal region of *Escherichia coli* T-protein of the glycine cleavage system, A421
- Okaneneko, A.**, See Taran, N.
- Okole, B.**, See Byth, H.-A.
- Okona-Mensah, K. B.**, See Ulukaya, E.
- Okpefa, E.**, See Abigor, R. D.
- Okumoto, M.**
—; Park, Y. G.; Song, C. W.; Mori, N.; Hong, D. P.; Ogawa, S.; Fujisawa, K.; Sugimoto, K.
Delineation of a minimal loss interval and exclusion of 3 genes as candidates for tumour suppressor genes on chromosome 12 in mouse malignant lymphomas, A224
- Okumura, T.**
—; Oda, M.; Sakitani, K.; Inoue, T.; Ito, S.
Vicinal dithiol residue on the NF-[kappa]B molecule is involved in its binding to the κ B site of iNOS gene promoter in hepatocytes, A340
- Okunuki, H.**, See Sakushima, J.
- ; Teshima, R.; Akiyama, H.; Goda, Y.; Toyoda, M.; Sawada, J.
Determination of enzymatic activity of EPSPS by radio-HPLC, A317
- Okura, F.**, See Ishizuka, M.
- Okuyama, H.**, See Darjania, L.; Morita, N.
- ; Hagiwara, S.; Okamoto, T.; Kato, K.
Glycosylphosphatidylinositol-anchored proteins found in the moss *Marchantia polymorpha*, 589
- Oldham, J. M.**, See Jeanplong, F.
- Oliveira, M. E.**, See Reguenga, C.
- Oliveira, S.**, See Broco, M.; Rodrigues, R.
- Oliver, D. J.**, See Nikolau, B. J.
- Oliver, J.**, See Russell, S. J.
- Oliver, S.**
—; Genomic analysis of biological systems, A122
- Oliver, S. G.**, See Hutter, A.
- Oliveri, L.**, See Caballero, F.
- Ollis, D. L.**, See Dixon, N. E.
- Olmo, M. T.**
—; Hayashi, H.; Medina, M. A.; Sánchez-Jiménez, F.
A study of the catalytic mechanism of a mammalian histidine decarboxylase, A329
- Olmos, G.**
—; Lotero, L. A.; Herráez, A.; Tejedor, M. C.; Diez, J. C.
Etoposide action on mouse peritoneal macrophages is modulated by interleukin 3, A381
- Olsen, S.**, See Taylor, V.
- Olszak, K.**, See Przykorska, A.
- Olzowska, O.**, See Skorupińska-Tudek, K.
- O'Malley, R.**, See Gostick, D.
- Omoruyi, F. O.**, See Grindley, P. B.
- O'Neill, C.**, See Carmody, M.; Jennings, R.; Kelliher, M.; Kenny, M.; Shanahan, C.
—; Dysfunctional ryanodine-receptor calcium-release channels in Alzheimer's disease, A18
—; Warhurst, A.; Stephens, R.; Rowland, M.; Warhurst, G.
Differential expression of ATP-binding cassette (ABC) transporters in vinblastine-selected intestinal Caco-2 cells, A91
- O'Neill, C. A.**
—; Stephens, R.; Penny, J.; Rowland, M.; Warhurst, G.
Molecular expression of p-glycoprotein (P-gp), multidrug resistance protein (MRP) and c-MOAT in the human gastro-intestinal tract, A91
- O'Neill, L.**
—; IL2 and TLR signal transduction-ancient signalling pathways involved in host defence, A489
—; The Toll/interleukin-1 receptor domain: a molecular switch for inflammation and host defence, 557
- O'Neill, R. M.**
—; Reen, D.
Signal transduction and activators of transcription (STAT)5 DNA binding does not reflect the differential proliferative response to interleukin-7 in neonatal T cells, A30
- Ong, S. H.**, See Guy, G. R.
- Onishi, M.**, See Odajima, T.
- ; Odajima, T.
The pathogenesis of Alzheimer's disease, atherosclerosis, autoimmune glomerulonephritis, muscular dystrophy, Parkinson's disease and smokers' emphysema associated with myeloperoxidase, A306
- Onley, D. J.**
—; Knight, C. G.; Barnes, M. J.; Farndale, R. W.
Micromolar Ca²⁺ concentrations are essential for Mg²⁺-dependent binding of collagen by the integrin α 2 β 1 in human platelets, A85
- Onoe, K.**, See Ohno, H.
- Onoiko, O. B.**, See Usenko, O. A.
- Onose, J.**, See Teshima, R.
- Ookawara, T.**, See Ohno, H.
- Oostheim, W.**, See Waterham, H. R.
- Opalka, J. R.**, See Gellerich, F. N.
- O'Reilly, L.**
—; Andresen, B.; Gregersen, N.; Engel, P.
Medium-chain acyl-CoA dehydrogenase deficiency, A73
- O'Reilly, L. P.**
—; Andresen, B. S.; Gregersen, N.; Engel, P. C.
Properties of five rare human mutations causing medium chain acyl-CoA dehydrogenase deficiency, A160
- Orengo, C. A.**, See Pearl, F.
- ; Functional insights from structural families, A22
- O'Riordan, T.**, See Papkovsky, D. B.
- ; Buckley, D.; O'Connor, R.; Papkovsky, D.
Cell viability screening method using optical oxygen sensor, A43
- Orphanides, G.**
—; James, N. H.; Pennie, W. D.; Kimber, I.; Gonzalez, F. J.; Peters, J.; Roberts, R. A.
Use of microarray expression profiling to investigate the mechanism of hepatocarcinogenesis induced by the peroxisome proliferator diethylhexylphthalate (DEHP) in mice, A236
- Orridge, K.**, See Osborne, J. G.
- Orry, A. J. W.**
—; Wallace, B. A.
Modelling and docking the endothelin (ET_A) G-protein coupled receptor, A75
- Ortiz, J. A.**, See Baldán, A.
- Osago, H.**, See Shingu, T.; Terashima, M.
- Osaza, H.**, See Hagiwara, K.
- Osborne, J. G.**
—; Orridge, K.; Young, T. W.
Cloning, overexpression and purification of an inorganic

- pyrophosphatase from *Archaeoglobus fulgidus*, A317
- Ose, T.**, See Yao, M.
- Oshida, Y.**, See Obayashi, M.
- Ostad, S. N.**, See Azizi, E.; Sabzevari, O.
- ; Daghighi, F.; Abdollahi, M.
- The study of teratogenic effect of cyclosporin *in vitro*, A292
- Ostergaard, H. L.**, See Edmonds, S. D.
- Osuji, G.**, See Wheatley, A. O.
- O'Sullivan, A.**, See Kelly, T. A.
- O'Sullivan, C. K.**, See Daly, D. J.; Faehnrich, K.; Kreuzer, M. P.; O'Connell, P. J.; Vaughan, R. D.
- O'Sullivan, G.**, See Nally, K.
- O'Sullivan, J. M.**
- ; Chukeatirote, E.; Massey, S.; Davenport, B.; Brown, P. J.; Santos, M. A. S.; Tuite, M. F.
- The evolution of CUG codon reassignment in *Candida albicans*, A186
- O'Sullivan, S.**
- ; Cogan, T.; Condon, S.; Sheehan, D.
- Possible role of acetolactate decarboxylase (ALD) in diacetyl synthesis, A25
- Ota, K.**, See Tanaka, Y.
- Othman, A.**
- ; Lazarus, C.; Fraser, T.; Stobart, K.
- Cloning of a palmitoyl-acyl carrier protein thioesterase from oil palm, 619
- Otlewski, J.**, See Cierpicki, T.; Grzesiak, A.
- O'Toole, A.**, See Halestrap, A. P.
- Otsyula, M. G.**, See Menge, M. D.
- Otting, G.**, See Dixon, N. E.
- Ottosson, J.**
- ; Hult, K.
- Thermodynamic analysis of enzyme enantioselectivity, A317
- Ouyan, H. S.**, See Zhang, Y. L.
- Ovanesov, M. V.**, See Krasotkina, Y. V.
- Ovchinnikova, T. V.**, See Vladimirova, N. M.; Zaitseva, L. G.
- ; Baru, M. B.; Gorbunova, E. Yu.; Vagenina, I. V.; Mustaeva, L. G.; Miroshnikov, A. I.; Raap, J.
- Total solid phase synthesis of the biologically active peptaibol antibiotic zervamicin IIB, A207
- ; Vasilyeva, O. V.; Potapenko, N. A.
- Fragments of *E. coli* ATP-dependent protease Lon produced by limited proteolysis, A317
- Owada, K.**, See Tokmakov, A. A.
- Owen, F.**, See Nahrevanian, H.
- Owen, J. S.**, See Mulcahy, J. V.
- Owen-Hughes, T.**, See Whitehouse, I.
- Owen-Hughes, T. A.**
- ; Mechanisms for ATP-dependent chromatin remodelling, A62
- Oyama, Y.**, See Sugase, K.
- Oyston, P. C.**, See Karlyshev, A. V.
- Oyston, P. C. F.**, See Skinner, M. A.
- Ozbek, H.**, See Durak, I.; Kacmaz, M.
- Özçirpici, B.**, See Bozkurt, A. I.
- Özdemir, Ý.**, See Kocabyýýik, S.
- Özgür, S.**, See Bozkurt, A. I.
- Ozkara, H. A.**, See Sinici, I.
- Ozkara, H. A.**
- ; Sandhoff, K.
- Characterization of the effect of a 12 bp deletion mutation in exon 10 and a point mutation in exon 12 on beta-hexosaminidase alpha-subunit gene by site-directed mutagenesis, A441
- Öztürk, H. S.**
- ; Durak, I.; Kavutcu, M.; Kaçmaz, M.; Avcý, A.; Horasanly, E.; Çimen, M. Y. B.
- Effects of isoflurane on nitric oxide metabolism and oxidant status of rat myocardium, A203
- Oztürk, H. S.**, See Durak, I.; Elgun, S.; Gokhun, I. H.
- Öztürk, M.**, See Süsleyici, B.
- Paananen, A.**, See Matikainen, S.
- Paasman, M. A.**, See van Tiel, C. M.
- Paces, J.**, See Strnad, H.
- Paces, V.**, See Strnad, H.
- Pacheco, A. C.**, See Simão, R. C. G.
- Pacholsky, D.**, See Fuerst, D. O.
- Padmanabhan, U.**
- ; Dasgupta, S.; Biswas, B. B.; Dasgupta, D.
- Role of the enzyme, phytase, in the intracellular Ca(II) mobilization in plants, A405
- Padmawinata, K.**, See Akhmaloka, A.
- Page, M.**, See Hirata, T.; Marrer, E.
- Pagel, C.**, See Wynn, S. L.
- Pahan, K.**
- ; Liu, X.
- Expression of iNOS and activation of NF-κB in LPS- and cytokine-stimulated astrocytes involve the activation of p21 Ras, A381
- ; Schmid, M.
- Induction of NF-κB activation in spinal cords of experimental allergic encephalomyelitis, A381
- Pal, A.**, See Morgan, G. W.
- Palamarczyk, G.**, See Grabinska, K.; Kruszewska, J. S.
- Palel, G.**, See Stafic, C. S.
- Palhares, F. B.**, See Belline, P.
- Pall, H.**, See Messahel, S.
- Pall, H. S.**, See Noble, S. P.
- Palleschi, G.**, See Killard, A. J.
- Palmer, R.**, See Flanagan, A. F.
- Palmer, S. L.**, See Ward, A.
- Palmer, T. N.**, See Popovski, S.
- Palmieri, M.**, See Faggioli, L.; Sasso, M. P.
- Palmour, R.**, See Vincent, J. B.
- Palvimo, J. J.**, See Jänne, O. A.
- Panagiotidis, C.**, See Kotoula, V.
- Panaretakis, T.**
- ; Induction of apoptosis by the rodent perisome proliferator and hepatocarcinogen, perfluorooctanoic acid, in human hepatoma HepG2 cells, A450
- Pančuka, T.**, See Baumanis, V.
- Pander, B.**, See Smolarz, B.
- Pandey, A. V.**, See Singh, R. L.
- ; Chauhan, V.S.
- Hemoglobin catabolism and heme detoxification systems in malarial parasite as the targets of endoperoxide antimalarial drugs, A437
- Pandya, M. J.**
- ; Spooner, G. M.; Thorpe, J. R.; Rodger, A.; Woolfson, D. N.
- Sticky-end assembly of a designed peptide fibre provides insight into protein fibrillogenesis, A74
- Panemann, H.**, See Benčina, M.
- Panemann, H.**, See Benčina, M.
- Panetta, G.**, See Negri, R.
- Panfoli, I.**
- ; Burlando, B.; Gallo, G.; Marchi, B.; Viarengo, A.
- Role of cell redox state impairment on cell signalling modulation, A280
- Pang, C. P.**, See Leung, Y. F.
- Pang, S.**
- ; Hooper, N. M.
- The ectodomain of angiotensin converting enzyme does not dictate sensitivity to secretase directed cleavage, A262
- The juxtamembrane stalk region of angiotensin-converting enzyme confers susceptibility to secretase cleavage, A80
- Pang, S. S.**
- ; Duggleby, R. G.
- Expression, purification, characterization and reconstitution of the large and small subunits of yeast acetohydroxyacid synthase, A466
- Pan'kova, N. V.**, See Korobov, V. P.
- Panoutsopoulou, K.**, See Hutter, A.
- Panovski, M.**, See Dimovski, A. J.
- Pant, H. C.**, See Veeranna, P. S.
- Panthongviriyakul, C.**, See Boonsiri, P.
- Panuganti, S. D.**
- ; Frybarger, J. R.; Moore, K. H.
- Decreased hydrolysis of solvent-derived oxa acyl-CoA by rat liver acyl-CoA hydrolases, A37
- Papadopoulos, T.**
- ; Bauer, K.
- Site-directed mutagenesis of conserved residues in the active site of thyrotropin-releasing hormone-degrading ectoenzyme, A318
- Papkovsky, D.**, See O'Riordan, T.
- Papkovsky, D. B.**
- ; O'Riordan, T.; Soini, A.
- Phosphorescent porphyrin probes in biosensors and sensitive bioassays, 74
- ; Phosphorescent porphyrin probes in biosensors and sensitive bioassays, A21
- Paquet, M.-E.**
- ; Interactions between components of the MHC I peptide loading complex, A447
- Paquette, A. J.**, See Roopra, A.
- Paržková, J.**, See Mikulová, R.
- Paradis, L.**, See Bachvarov, D.
- Paraon, L.**
- ; Nelson, G.; Reynolds, D.; Floettmann, J. E.; Sullivan, E.; White, M. R. H.
- Kinetic aspects of signal transduction through NF-κB signalling revealed by *in vivo* imaging, A280
- Parenti, P.**, See Pugliese, A.
- Parham, S. N.**
- ; Resende, C. G.; Cox, B. S.; Tuite, M.F.
- cis* and *trans*-acting factors affecting prion propagation in *Saccharomyces cerevisiae*, A348
- Park, H. S.**
- ; Lee, S. Y.; Lee, J. R.; Lee, Y. K.; Lee, S.J.; Kim, S. Y.; Choi, M.-U.
- Cell permeabilization by digitonin accompanies a broad alteration in cellular lipid composition, A399
- Park, J. M.**, See Kang, B. Y.
- Park, K.-S.**, See Lee, W.-J.
- Park, M.-H.**, See Chang, S.-I.
- Park, S.**, See Moriwaki, S.; Ohba, H.
- Park, S.-S.**
- ; Sumi, T.; Moriwaki, S.; Nakamura, O.; Kimura, M.; Ohba, H.
- Primary structure and characterization of serine proteinase inhibitors from white sword bean (*Canavalia gladiata*), A421
- Park, S. W.**, See Moon, Y. A.
- Park, Y. G.**, See Okumoto, M.
- Park, Y. S.**, See Suzuki, K.
- Parker, M. D.**
- ; Hyde, R. J.; Yao, S. Y. M.; McRobert, L.; Cass, C. E.; Young, J. D.; McConkey, G. A.; Baldwin, S. A.

- Characterization of a novel nucleoside/nucleobase transporter from *Plasmodium falciparum*, A90
- Parker, M. I.**
—; Masemola, A. M.
Promoter elements involved in regulation of the human $\alpha 2(I)$ procollagen gene, A241
- Parker-Barnes, J. M.**, See Das, T.
- Parkin, E. T.**
—; Turner, A. J.; Hooper, N. M.
The Alzheimer's amyloid precursor protein α -secretase and the angiotensin converting enzyme secretase exhibit closely related enzyme activities, A306
- Parkinson, E. K.**
—; Munro, J.; Steeghs, K.; Morrison, V.; Ireland, H.; Forsyth, N.; Fitzsimmons, S.; Bryce, S.
Replicative senescence as a barrier to human cancer, 226
—; Replicative senescence as a barrier to human cancer, A3
- Parmryd, I.**
—; Phytilyation-a chloroplastic version of protein prenylation, A405
- Parniewski, P.**, See Majchrzak, M. J.
- ; Jaworski, A.; Wells, R. D.; Bowater, R. P.
Effect of repeat tract length on expansions and deletions of CTG-CAG repeats mediated by mismatch repair in *Escherichia coli*, A168
- Parodi, A.**
—; Glycoprotein folding in the yeast and protozoan endoplasmic reticulum, A124
- Parrott, A.**, See Argent, R.
- Parslow, G.**
—; Changing a discipline-based medical course to a problem-based course: gains and losses for biochemistry, A134
- Parsons, M.**, See Dennis, C.
- Partidos, H.**, See Kanellos, T.
- Parveez, G. K. A.**
—; Masri, M. M.; Zainal, A.; Majid, N. A.; Yunus, A. M. M.; Fadilah, H. H.; Rasid, O.; Cheah, S.-C.
Transgenic oil palm: production and projection, 969
- Paschke, R.**, See Hubbard, P. A.
- Pascholati, S.**, See Di ciero, L.
- Pascholati, S. F.**, See Di Ciero, L.
- Pasha, M. A. Q.**
—; Khan, A. P.; Kumar, R.; Grover, S. K.; Brahmachari, S. K.
Angiotensin-converting enzyme gene polymorphism in relation to high altitude physical performance, A230
- Pasha, Q.**, See Bala, M.
- Pasha, S.**, See Bala, M.
- Pasha, S. R.**, See Saeed, S. A.
- Paszewski, A.**, See Kacprzak, M.
- Patching, S. G.**
—; Henderson, P. J. F.; Spooner, P. J. R.; Watts, A.; Baldwin, S. A.; Gallagher, M. P.; Litherland, G. J.; Herbert, R. B.
A solid-state NMR approach to the structure-activity relationship of the nucleoside transport protein NupC of *Escherichia coli*, A89
- Patel, B.**, See Newcombe, J.
- Patel, K.**, See Murphy, D. J.
—; Cartwright, H. M.
Analysis of 2D gel series data using advanced statistical tools, A147
- Patel, M.**, See McEIlone, M.
- Patel, M. S.**
—; Korotchkina, L. G.
Pyruvate dehydrogenase kinase (PDK) isoenzymes: specificity towards the three phosphorylation sites, A330
- Patel, R.**, See Burdon, D.
- Patel, S.**, See Newcombe, J.
- Patenaude, S.**, See Young, N. M.
- Paterno, G. D.**, See Post, J. N.
- Paton, M. B.**
—; Dellow, W. J.; Lever, M.; Hayman, C. M.
Measuring betaine metabolites, A364
- Patrakitkomjorn, P.**
—; Howard, M.; Kirkhan, S.; Sheehan, J.; Boonla, C.; Sripa, S.; Bhuddhisawasdi, V.; Wongkham, C.; Wongkham, S.
MUC5AC: a mucin marker of cholangiocarcinoma, A227
- Pattarakitkhomjon, S.**
—; Wongkham, S.; Yutanawiboonchai, W.; Wongkham, C.
Analysis of plasma proteins derived from cholangiocarcinoma patients using 2-dimensional gel electrophoresis, A226
- Patterson, N. A.**, See Weselake, R. J.
- Patthy, L.**
—; Unique functional composition of metazoan genomes, A113
- Paul, A.**, See Kanke, T.
- Paulsen, I. T.**
—; Evaluation of the uptake and efflux capabilities of organisms based on whole-genome sequence analysis, A65
- Pavlicek, J.**
—; Sopko, B.; Plihal, O.; Stankova, B.; Novak, P.; Bezouska, K.
Investigation of structural and binding properties of CD69 molecule, A270
- Pavlíček, J.**, See Sopko, B.
- Pawson, A.**
—; Protein modules and signalling networks, A127
- Payton, M.**, See Mushtaq, A.
- Payton, M.**, See Sandy, J.; Upton, A.
- Pearce, J.**, See Dayanandan, R.
- Pearl, F.**
—; Todd, A. E.; Bray, J. E.; Martin, A. C. R.; Salamov, A. A.; Suwa, M.; Swindells, M. B.; Thornton, J. M.; Orengo, C. A.
Using the CATH domain database to assign structures and functions to the genome sequences, 269
- Pearson, A. G. M.**
—; Goodbye to all that: no more wet biochemistry labs for medics?, A144
- Pedraza-Díaz, S.**
—; Amar, C.; Ditrich, O.; McLauchlin, J.
Molecular characterisation of an unusual genotype of *Cryptosporidium* from human faeces, A483
- Peirano, A.**, See Eyzaguirre, J.
- Pelham, H.**
—; Organisation of the yeast secretory pathway, A115
- Pellegrini, L.**
—; Burke, D.; von Delft, F.; Mulloy, B.; Blundell, T. L.
Crystal structure of a FGF-FGFR-heparin complex, A280
- Penel, S.**, See Andrew, C. D.
- Penn, C. W.**, See Jagannathan, A.
- Pennanen, P.**, See Lyakhovich, A.
- Pennie, W. D.**, See Orphanides, G.
- Penny, J.**, See O'Neill, C. A.
- Penttilä, M.**, See Kruszewska, J. S.
- Pepys, M.**, See Noursadeghi, M.
- Pepys, M. B.**
—; Amyloidosis, protein folding and serum amyloid P (SAP) component, A50
- Pereira, M. M. C.**, See Stratford, F. L. L.
- Perepelitsin, V. N.**, See Lemkina, L. M.
- Perera, W. S. S.**
—; Hooper, N. M.
Is the proteolytic processing of the prion protein autocatalytic?, A80
Role of the octapeptide repeat region of the prion protein in copper homeostasis and endocytosis, A347
- Pereverzev, M. O.**, See Skulachev, V. P.
- Pérez-Gómez, C.**
—; Matés, J. M.; Gómez-Fabre, P.; Aledo, J. C.; Mézquez, J.
A putative human glutaminase pseudogene in human breast cancer cells, A184
- Perez-Montfort, R.**, See Becker, I.; Cabrera, N.
- Perkins, S. J.**
—; Do tomorrow's doctors need to know bioinformatics?, A67
- Perschinka, H.**
—; Schett, G.; Mayr, M.; Kiechl, S.; Xu, Q.; Wick, G.
Serum soluble heat-shock protein 60 is elevated in subjects with atherosclerosis in a general population, A233
- Persson, B. L.**, See Lagerstedt, J. O.
- Pertseva, M. N.**
—; Plesneva, S. A.; Shpakov, A. O.; Kuznetsova, L. A.
Functional organization of a novel adenyl cyclase-signalling mechanism of insulin action, A281
- Pery, P.**, See Jean, L.
- Peschek, G. A.**
—; Respiration of cyanobacteria: evolution, energetics, and ecology, A190
- Peters, G.**, See Huot, T. J. G.
- Peters, J.**, See Orphanides, G.
- Petersen, M. F.**, See McFarland, S. M.
- Peterson, C.**
—; Global role for chromatin remodeling enzymes in mitotic gene expression, A113
- Petrasek, J.**, See Krizkova, L.
- Petrasek, J.**, See Zazimalova, E.
- Petrescu, S.**
—; Folding and activity of glycoenzymes is dependent on the lectins calnexin and calreticulin, A124
- Petrescu, S. M.**, See Costin, G.-E.
- Petronilha, C.**, See Tolezano, J. E.
- Petrovic, U.**
—; Gunde-Cimerman, N.; Plemenitas, A.
Identification of some parameters responsible for halophily ion black yeast, *Hortaea werneckii*, A466
- Petrovich, Y. A.**
—; Manukhin, I. B.; Terekhina, N. A.; Nazarenko, Z. N.; Obolenski, I. A.; Golostenova, L. M.; Subramanian, S.
Activity of enzymes in vaginal discharge of individuals with papillomavirus infection of the lower genital tract, A212
- Petruzelka, L.**, See Kleibl, Z.
- Pfister, G.**, See Rumpold, H.
- Pham, F. H.**
—; Clerk, A.
Regulation of 4E-BP1 and eIF4E in cardiac myocytes, A432
- Pham, T. N. Q.**
—; Richardson, V. J.; Dobson, P. R. M.; Brown, B.
Protein kinase C expression in monocytic cell lines, A280
- Pham-Thi, A.**, See Marcel, G. C. F.
- Pham-Thi, A. T.**, See Matos, A. R.

- Pheasant, A. E.**, See Messahel, S.; Noble, S. P.
- Phillip, B.**
—; Levin, D. E.
Hcs77 and Mid2 activate cell integrity signaling through the Rho1 guanine exchange factor, Rom2, A281
- Phillips, V. E.**, See Daniels, R. H.
- Phillipsen, S.**, See Göllner, H.
- Phillimore, H. E.**, See D'Cruz, L. G.
- Phillips, J. W.**, See Berry, M. N.
- Phillips, K.**, See Porter, J.
- Phillips, S.**, See Dennis, C.
- Phillips, S. E. V.**, See Bingham, R. J.; Firbank, S. J.; Fothergill-Gilmore, L. A.; Hadden, J. M.; Horn, W. T.; Hyde, R. J.; Kurtis, C.; Porter, J.; Wilmot, C. M.; Xie, H.
- Phinney, D. G.**, See Prockop, D. J.
- Phoenix, D. A.**, See Brandenburg, K.; Daman, O. A.; Rice, L.; Wallace, J.; Whittaker, M.
- Piazza, G. J.**, See Nuñez, A.
- Piccini, M.-P.**
—; Maggi, E.; Romagnani, S.
Role of hormone-controlled T-cell cytokines in the maintenance of pregnancy, 212
- Pickering-Brown, S.**, See Nahrevanian, H.
- Pickett, C. B.**
—; Regulation of gene expression by oxidative stress, A5
- Pickett, J.**, See Whitney, H.
- Pieragostini, E.**, See Rullo, R.
- Pierce, M.**, See Wright, J. M.
- Pierotti, A. R.**, See Morrison, L.; Psatha, M.
- Pierre, J.-N.**, See Coursol, S.
- Pietrzykowska, I.**, See Krwawicz, J.
- Pike, A. C. W.**
—; Brzozowski, A. M.; Walton, J.; Hubbard, R. E.; Bonn, T.; Gustafsson, J.-Å.; Carlquist, M.
Structural aspects of agonism and antagonism in the oestrogen receptor, 396
- Pillay, T. S.**, See Ahmed, Z.
- Piñeiro, A.**, See Bugía, M. B.
- Pingoud, A.**, See Schoettler, S.; Wilhelm, J.
- Pingoud, V.**, See Schoettler, S.
- Pinheiro de Carvalho, M. A. A.**, See Medvedeva, L. V.; Semehina, A. V.
- Pinot, F.**
—; Skrabs, M.; Compagnon, V.; Salaün, J.-P.; Benveniste, I.; Schreiber, L.; Durst, F.
 ω -Hydroxylation of epoxy- and hydroxy-fatty acids by CYP94A1: possible involvement in plant defence, 867
- Pin Soh, C.**
—; role of α -galactosidase II in softening of papaya fruit, A456
- Pinto, A. P. A.**, See Campana, P. T.
- Pinto, L. M. A.**
—; Melo, P. S.; Haun, M.; de Paula, E.
Benzocaine-lipid membrane interaction and its application in the development of long-acting, encapsulated, local anesthetic formulations, A203
- Pinxteren, J.**, See Sadek, O.
- Pioker, F. C.**, See da Silva, E. R.
- Pirags, V.**, See Tretjakovs, P.
- Pirmez, C.**, See Alves, C. R.
- Pirson, W.**, See Hirata, T.
- Pisarzhovsky, S.**, See Kushelev, A.
- Piskareva, O. A.**, See Schmatchenko, V. V.
- Pitkeathly, M.**, See Ashcroft, A. E.
- Pizzo, S. V.**, See Misra, U. K.
—; Misra, U. K.
Upregulation of cyclooxygenase-2 in macrophages stimulated with receptor-recognized forms of α -macroglobulin, A270
- Placzek, M.**
—; Differentiation of ventral midline tissues along the A-P axis, A139
- Plas, E.**, See Untergasser, G.
- Plaseska-Karanfilska, D.**, See Dimovski, A. J.
—; Duvlis, S.; Dimovski, A. J.; Naumov, J.; Milanova, E.; Lazarevski, S.; Efremov, G. D.
Human papilloma virus (HPV) types detected among Macedonian patients with cervical abnormalities, A212
- Plasterk, R.**
—; RNA interference and transposon silencing in *C. elegans*, A122
- Platek, A.**, See Wicjak, J.
- Plemenitas, A.**, See Turk, M.
- Plemenitas, A.**, See Petrovic, U.
- Plesneva, S. A.**, See Nalivaeva, N. N.; Pertseva, M. N.
- Plevin, R.**, See Kanke, T.; Scatter, M. J.
- Plihal, O.**, See Pavlicek, J.
- Plochocka, D.**, See Grabowska, D.
- Plochocka, D.**
—; Kierzek, A.; Obtulowicz, T.; Tudek, B.; Zielenkiewicz, P.
3-Methyladenine-DNA glycosylase I from *Escherichia coli*—computer modelling and supporting experimental evidence, A421
- Plumb, G. W.**, See Williamson, G.
- Plummer, S. M.**, See Mansion, M. M.
- Plyakhin, I. V.**, See Stroev, Y. A.
- Pocsik, M.**, See Nemeth, A.
- Podgornaya, O. I.**, See Dolnik, A. V.; Lukjanov, D. V.
- Podlaska, A.**
—; Mieczkowski, P.; Skoneczna, A.; Sledziwska-Gojska, E.
UMPI is induced by DNA damage and is required for the resistance of *Saccharomyces cerevisiae* to UV light, A167
- Podorvanov, V. V.**, See Usenko, O. A.
- Poetter, K.**
—; Toohey, B.; Foote, S.
Development of mass spectrometry as a mutation detection tool, A150
- Poghosyan, Z.**, See Giannoulia, K.
- Pogribnyl, P.**, See Lisovsky, I.
- Pohl, J.**, See Spiro, R. C.
- Pohlreich, P.**, See Kleibl, Z.
—; Stribrna, J.; Kleibl, Z.; Matous, B.; Horak, V.
Detection of circulating tumour cells in miniature pigs with hereditary melanoma, A224
- ; Stribrna, J.; Kleibl, Z.; Zikan, M.; Konopasek, B.
Mutations of *BRCA1* gene in Czech breast and ovarian cancer families, A224
- Poladian, A.**, See Bagryan, K.; Markarian, S.
- Polentarutti, N.**, See Muzio, M.
- Polidori, E.**
—; Agostini, D.; Zeppa, S.; Amicucci, A.; Potenza, L.; Guescini, M.; Stocchi, V.
Molecular approaches for expression and identification analyses of truffle, A150
- Polishchuk, L.**, See Lukyanchuk, V.
- Polishchuk, L. V.**, See Lukyanchuk, V. V.
—; Lukyanchuk, V. V.; Matselyuch, B. P.
Search for plasmids of streptomycetes, A181
- Politis, P.**
—; Role of histone acetylation in phosphate-regulated expression from the *PHO5* gene of *Saccharomyces cerevisiae*, A451
- Pollard, C. L.**
—; Richardson, J.; Rupniak, H. T. R.; Sheppard, P. W.; Varndell, I. M.; Lovestone, S.; Anderton, B. H.
Presenilin modulates the activity of dishevelled 1 in the Wnt pathway, A36
- Pollard, M.**, See Ohlrogge, J.
- Poll-The, B. T.**, See Waterham, H. R.
- Polo, B. A.**, See Jaramillo, L. R. D.
- Polosina, Y. Y.**
—; Zamyatkin, D. F.; Kostyukova, A. S.; Filimonov, V. V.; Fedorov, O. V.
The exceptional properties of extremophilic nucleoside diphosphate NDP kinase, A466
- Poludova, T. V.**, See Titova, A. V.
- Polyakov, N. B.**, See Zaitseva, L. G.
- Pompeo, F.**, See Mushtaq, A.
- Ponce, C.**, See Campos Ponce, M.
- Ponce, E.**, See Campos Ponce, M.
- Ponte, I.**, See Vila, R.
- Ponte-Sucre, A. I.**
—; Scharner, A.; Moll, H.
Leishmania major lipophosphoglycan modulates the expression of co-stimulatory and cell-adhesion molecules by Langerhans cells, A234
- Pooga, M.**, See Soomets, U.
—; Kut, C.; Kihlmark, M.; Raid, R.; Hällbrink, M.; Hallberg, E.; Langel, Ü.
Cellular translocation of proteins by transportan, A364
- Poolman, M. G.**
—; Feil, D. A.
Scrumpi: a metabolic model control language, A196
- Poon, S. S. S.**, See Martens, U. M.
- Pooni, H. S.**, See Wilkes, T. M.
- Pope, G. S.**, See Higman, J. R.
- Popov, M. E.**, See Ruzhenikov, S. N.
- Popov, M. E.**
—; Kashparov, I. V.; Ruzhenikov, S. N.
Exploration of conformational space of small biological compounds, A412
- Popova, T. N.**, See Medvedeva, L. V.
- Popova, T. N.**, See Semehina, A. V.
- Popovski, S.**
—; Attwood, P. V.; Fournier, P. A.; Palmer, T. N.
The mechanism of aggregation of β -particles into α -particles in rat liver glycogen, A336
- Porschewski, P.**
—; Kindl, H.
The dual binding sites of a DnaJ-protein characterized by eight TPR domains form a link between the plasma membrane and Hsp70/Hsp90 complexes, A353
- Porteous, D. J.**, See Cunningham, G. A.; Millar, J. K.; Taylor, M. S.
- Porter, J.**
—; Phillips, K.; Phillips, S. E. V.
The activation of *Escherichia coli* methionine repressor protein: crystal structures of repressor-co-repressor analogue complexes, A71
- Pos, K. M.**
—; Reeves, N. E.; Ward, A.; Henderson, P. J. F.
Comparative analyses of different types of secondary active solute transport proteins, A90
- Poser, J. W.**, See Spiro, R. C.
- Pospelov, V. A.**, See Darieva, Z. A.

- Pospelova, T. V.**, See Sarieva, Z. A.
Post, J. N.
 —; Luchman, H. A.; Gillespie, L. L.; Paterno, G. D.
 Nuclear translocation of a *Xenopus laevis* protein ER1 is regulated by multiple independent nuclear localization signals, A353
Post-Bettinmiller, D., See Domergue, F.
Poste, G.
 —; Molecular medicine, population genetics and the future of healthcare delivery, A99
Posypanova, G., See Severin, E.
Potapenko, N. A., See Ovchinnikova, T. V.; Vladimirova, N. M.
Potenza, L., See Polidori, E.
Potgieter, H. C.
 —; Louw, R.; van der Westhuizen, F. H.
 Non-protein amino acids and organic acids inhibit serine hydroxymethyltransferase activity in the chicken embryo neural tube defect model, A438
Potter, J. D., See Gomes, A. V.
Poukka, H., See Jänne, O. A.
Pour, A. E.
 —; Riazi, Q. H.; Behboodi, B. S. H.; Mahdavi, N.
 Qualitative and quantitative studies on some proteins and toxins transport across the blood-air barrier in cultured alveolar epithelial cell monolayer, A389
Pourfarzam, M., See Eaton, S.
Poussu, A. M.
 —; Dronnesund, E. A.; Saraste, J.; Lohi, O. S.; Lehto, V.-P.
 Vear, a novel trans-Golgi protein with VHS and "ear" domains, A393
Povey, S., See Wain, H.
Powell, G. L.
 —; Jung, S.; Bruner, A. C.; Swartzbeck, J. L.; Abbott, A. G.
 Molecular properties of the oleoyl-phosphatidylcholine desaturase from *Arachis hypogaea* L., 625
Powell, R., See Davey, G. C.
Poyner, D. R., See Conner, A. C.
Poznanovic, G., See Grdovic, N.; Uskokovic, A.; Vidakovic, M.
Pradayrol, L., See Pyronnet, S.
Pradhananga, S.
 —; Rayner, W.; Berry, A.
 De novo protein design: evaluation of an *in silico* design method, A69
Pramono, H., See Akhmaloka, A.
Prasad, K. N., See Singh, M. K.
Prates, J. A. M., See Correia, A. A. D.; Correia, J. H. R. D.
Preiser, P., See Kaviratne, M.
Prendergast, D. P.
 —; Halliday, M. I.; McFerran, N.V.; Wallace, A.
 Phage peptide-display technology to identify novel peptide binders to a monoclonal antibody, A41
Preneta, R., See Doublet, P.
Pretorius, A., See Skepu, A.
Prevot, D.
 —; Morel, A. P.; Voltzel, T.; Rostan, M. C.; Magaud, J. P.; Corbo, L.
 The Btg proteins and their partners: implication in transcription regulation, A288
Price, I. K.
 —; Jackson, Z. E.; Stringer, B. M. J.; Kille, P.; Foster, G. A.
 A quantitative directed differential display technique to identify transcription factors that orchestrate neuronal versus astrocytic differentiation from a common progenitor *in vitro*, A293
Price, N. C., See Cerasoli, E.
Price, N. C.
 —; Duncan, D.
 Assay of aminoacylase using the S to N transfer of a fluorogenic group, A319
Price, S. A.
 —; López Bernal, A.
 Adenylyl cyclase isoforms and the maintenance of uterine quiescence, A281
Priest, R. C., See Foster, M. R.
Prigent, S. A., See Mansion, M. M.
Prlic, A.
 —; Domingues, F. S.; Sippl, M. J.
 Estimating reliability of predicted open reading frames for *C. elegans*, A182
Procházka, J., See Křepela, E.
Prockop, D. J.
 —; Azizi, S. A.; Colter, D.; DiGirolamo, C.; Kopen, G.; Phinney, D. G.
 Potential use of stem cells from bone marrow to repair the extracellular matrix and the central nervous system, 341
 —; Potention use of stem cells from bone marrow to repair the extracellular matrix and the central nervous system, A54
Procter, J.
 —; Torda, A. E.
 Genometric structural comparison, A422
Prost, J. F., See Doublet, P.
Prusiner, S.
 —; Molecular biology and genetics of prions, A98
Przykorska, A.
 —; Keith, G.; Solecka, K.; Olszak, K.; Kuligowska, E.
 Wheat chloroplast nuclease ChS exhibits flap structure-specific endonuclease activity, A252
Psatha, M.
 —; Winter, A.; Pierotti, A. R.
 Analysis of regulatory sequences in the *N*-arginine dibasic (NRD) convertase promoter, A83
Puangpornpitag, D., See Yongvanit, P.
Publicover, S., See Gu, Y.
Publicover, S. J., See Kirkman-Brown, J. C.
Pugh, D. J., See Rees, D. J.
Pugh, D. J. R., See Skepu, A.
Pugh, J.
 —; McGown, E.; Lam, A.
 Fluorometric protease assays in the SPECTRAMax[®] GEMINI: example using caspase-3, A364
Pugliese, A.
 —; Forcella, M.; Lissoni, F.; Giacchini, R.; Parenti, P.; Hanozet, G. M.
 Leucine uptake into membrane vesicles from midge larvae, A390
Puhan, Z., See Luethi-Peng, Q. Q.
Pullen, T., See Francis, S.
Pullen, T. J.
 —; Francis, S.; Bastin, P.; Gull, K.
 Proteomic approaches to eukaryotic flagellar structure: comparative analysis of mutant trypanosomes, A218
Pullinger, G. D.
 —; Lax, A. J.
 Identification of the functional domains of the *Pasteurella multocida* toxin (PMT), A234
Punshon, G.
 —; Butler, P.; Davidson, B. R.; Rolles, K.; Fuller, B. J.
 Release of matrix metalloproteinases (MMPs) stimulated by cold preservation of human livers during transplantation, A85
Puschendorf, B., See Talasz, H.
Puyaubert, J.
 —; Garbay, B.; Dieryck, W.; Costaglioli, P.; Roscoe, T.; Cassagne, C.; Lessire, R.
 Enzymic activities and gene expression of enzymes of the acyl-CoA elongase during rapeseed development, 645
Pyne, N. J., See McKie, A.
Pyne, S., See Darroch, P.; McKie, A.
Pyronnet, S.
 —; Pradayrol, L.; Sonenberg, N.
 A cell cycle-dependent internal ribosome entry site, A369
Pyshnyi, D., See Koval, V.
Pytel, J., See Smolarz, B.
Pyzhova, N. S., See Nikandrov, V. N.
Qadir, M. A.
 —; Atkinson, B. G.
 Evidence of population polymorphism of the polyubiquitin gene and its up-regulation during thyroid hormone induced programmed cell death in the tail muscle of *Rana catesbeiana* tadpoles, A237
Qian, B., See Cepica, A.
Qian, S.-B.
 —; Kinetic association with calnexin regulates the transport of MHC class I molecules, A454
Qian, W., See Wang, Z.-Q.
Qiary, A., See Hassan, F. M.
Qin, C., See Wang, X.
Qin, W., See Devery, S.
Qu, Y., See Ratcliffe, C. F.
Quant, P. A., See New, K. J.
Quartacci, M. F., See Berglund, A. H.
Quaye, I. K. E.
 —; Ekuban, F. A.; Gyan, B. A.; Cornelius, D.
 Haptoglobin phenotypes: chloroquine and halofantrine induce a state of ahaptoglobinemia in patients receiving either drug for treatment, A201
Quesada, P., See Atorino, L.
Quevedo, C.
 —; Alcazar, A.; Martin-de-la-Vega, C.; Salinas, M.
 Glycogen synthase kinase-3 (GSK-3) is implicated in the regulation of initiation factor 2B activity in insulin-like growth factor-1 stimulated neuronal cells, A340
Quilty, J. A.
 —; Li, J.; Reithmeier, R. A. F.
 Trafficking of distal renal tubular acidosis mutants of the anion exchanger AE1, A354
Quinn, A. G., See Bajaj-Elliott, M.
Quinn, T., See Ryan, J. P.
Quintas, A.
 —; Vaz, D.; Saraiva, M. J.; Brito, R. M. M.
 Transthyretin stability in familial amyloidotic polyneuropathy, A412
Raap, J., See Ovchinnikova, T. V.
Rabinkov, A.
 —; Miron, T.; Rehak, M.; Mirelman, D.; Wilchek, M.
 The effect of allicin on the cell cycle and proliferation, A369
Rachubinski, R., See Gostick, D.
Radford, S., See Argent, R.; Brockwell, D.; Capaldi, A.; Gorski, S.; Kad, N.
Radford, S. E., See Ashcroft, A. E.; Jones, S.
Radman, A., See Hassan, F. M.
Radunz, A.
 —; Alfermann, K.; Schmid, G. H.

- State of the lipid and fatty acid composition in chloroplasts of *Nicotiana tabacum* under the influence of an increased CO₂ partial pressure of 700 p.p.m., 885
- Raf, M.**
—; Programmed cell death: odds and ends, A13
- Rafferty, J.**, See Hayman, M. W.; Slabas, A. R.
- Ragnauth, C. D.**, See Kwan, C. S. M.
- Ragno, M.**, See Cabane, C.
- Rahbani, M.**, See Zarghami, N.
—; Zarghami, N.; Arkani, H.; Mortazavi, M.
Thyroid hormones function in dialysis patients candidate for transplantation, A160
- Rahbar, M.**, See Hazrati-tappe, K.
—; Lamei, A.; Ghazi-Saeidi, K.; Zarghami, N.
Importance of catalase enzyme in virulence of isoniazid resistant strains of *Mycobacterium tuberculosis* in guinea-pigs, A160
- Rahier, A.**
—; Benveniste, P.; Husselstein, T.; Taton, M.
Biochemistry and site-directed mutational analysis of Δ^7 -sterol-C₅₍₆₎-desaturase, 799
- Rahman, M. A.**, See Alam, N.
- Raid, R.**, See Pooga, M.
- Rajagopal, K.**, See Vasudha, S.
- Rajanaidu, N.**, See Sambanthamurthi, R.
- Rakhely, G.**, See Takacs, M.
- Rakitina, T. V.**, See Smirnova, E. V.
- Rakwal, R.**, See Komatsu, S.
—; Komatsu, S.
Exploring the involvement of jasmonates in rice plant self-defence mechanism—identification of jasmonic-acid induced defence-related and cellular-protectant proteins, A467
- Ramacha, M.**
—; Lazaro, E.; Sanz, E.; Ballesta, J. P. G.
Characterization of a genetic determinant involved in resistance to the antitumoral antibiotic sparsomycin in the producer *Streptomyces sparsogenes*, A203
- Ramakrishna, B. S.**, See Aparna, V.
- Ramakrishnan, R.**
—; Zell, J.; Malavé, A.; Rathinavelu, A.
Regulation of vascular endothelial growth factor (VEGF) expression by AP-1 promoter pathway, A237
- Ramakrishnan, Venki**
—; Structure of the 30S ribosomal subunit, A103
- Ramírez-Silva, L.**
—; Ferreira, S.; Nowak, T.; Tuena de Gómez-Puyou, M.; Gómez-Puyou, A.
Dimethyl sulfoxide promotes the K⁺-independent activity of pyruvate kinase and the acquisition of the active catalytic conformation, A319
- Ramji, D. P.**, See Irvine, S. A.
- Rammensee, H.-G.**
—; Peptides presented by HLA molecules and clinical applications, A119
- Rams, T. E.**, See Tewari, M.
- Ramsay, R. R.**
—; The carnitine acyltransferases: modulators of acyl-CoA-dependent reactions, A12, 182
- Rana, M. Z.**, See Khattab, A. D.
- Randell, J.**, See Gostick, D.
- Randolph, V. M.**, See Lea, M. A.
- Rangel-Corona, R.**, See Soto-Cruz, I.
- Rankohi, K. E.**, See Hosseini, R.
- Rao, B. J.**, See Sen, S.
- Rao, V. S.**
—; Joseph, J. S.; Kini, R. M.
amino acid sequence of a factor Xa-like protein from Stephen's banded snake (*Hoplocephalus stephensi*) venom, A422
- Rappu, P.**
—; Sinha, S.; Lange, S. C.; Smith, J. L.; Zalkin, H.; Mäntsälä, P.
Structural and functional studies on *Bacillus subtilis* YabJ, a member of the highly conserved YjgF family, A422
- Rasheed, H.**, See Saeed, S. A.
- Rasid, O.**, See Parveez, G. K. A.
- Rasmussen, H. N.**, See Gellerich, F. N.
- Ratcliffe, C. F.**
—; Qu, Y.; McCormick, K. A.; Tibbs, V. C.; Dixon, J. E.; Scheuer, T.; Catterall, W. A.
Modulation of brain sodium channels by associated receptor protein tyrosine phosphatase β , A467
- Rathinavelu, A.**, See Ramakrishnan, R.
- Raux, E. C.**, See Newbold, R. J.
—; Schubert, H. L.; Wilson, K. S.; Warren, M. J.
Cobalamin (vitamin B₁₂) biosynthesis: different pathway leading to the same molecule, A330
- Raventós-Suárez, C.**, See Suárez, G.
- Rawsthorne, S.**, See Chia, T.; Fox, S. R.; Hill, L. M.; Kubis, S. E.; Sellwood, C.
- Ray, A.**
—; Ray, B. K.
Transcriptional activity of serum amyloid A activating factor is regulated by protein kinase A, A242
- ; SAF regulates IL-6 mediated induction of the human gamma fibrinogen gene in liver cells, A241
- Ray, A. J.**
—; Birch-Machin, M. A.
The spectrum of mitochondrial DNA deletions is a ubiquitous marker of ultraviolet radiation exposure in human skin, A219
- Ray, B. K.**, See Ray, A.
- Ray, J.**, See Jones-Heiland, T.
- Ray, K.**, See Cooke, E.
- Ray, P.**
—; Smith, K. J.; Dixon, R. A.; Hyde, E. I.
Secondary structure and DNA binding of the C-terminal domain of the transcriptional activator NifA from *Klebsiella pneumoniae*, A422
- Rayner, W.**, See Pradhananga, S.
- Razumas, V.**, See Vagonis, A.
- Read, J. S.**, See Bvochora, J. M.
- Read, N. D.**, See Kozlova, O. V.
- Reader, J. S.**, See Jones, S.
- Real, K. J.**
—; Masterson, B. F.
An examination of the inhibitory properties of corn trypsin inhibitor on Hageman factor, A362
- Reaux, A.**
—; Iturriz, X.; Vazeux, G.; Fournie-Zaluski, M.-C.; David, C.; Roques, B. P.; Corvol, P.; Llorens-Cortes, C.
Aminopeptidase A, which generates one of the main effector peptides of the brain renin-angiotensin system, angiotensin III, has a key role in central control of arterial blood pressure, 435
- Reaven, E.**, See Azhar, S.
- Reboul, J.**, See Finley, J. B.
- Reddi, A. H.**
—; Morphogenetic messages are in the extracellular matrix: biotechnology from bench to bedside, 345
- Reddi, H.**
—; Morphogenesis and tissue engineering: message is in the extracellular matrix, A54
- Reddy, P. V. G.**
—; Menon, M.; Barrack, E. R.
A low molecular weight factor in fetal calf serum inhibits the progression of prostate cancer cells through S phase, A369
- Reddy, Y. V.**, See Desirazu, N. R.
- Redfield, C.**, See Greene, L. H.
- Redona, E. D.**, See Aldemita, R. R.
- Redpath, M.**, See Carrington, M.
- Reed, C. A. B.**, See Mulcahy, J. V.
- Reed, C. J.**, See Ridd, K.
- Reed, D. W.**, See Meesapyodsuk, D.
- Reen, D.**, See O'Neill, R. M.
- Rees, D. J.**
—; Pugh, D. J.
DWN, a novel protein domain with a possible role in apoptosis and CTL-killing, A230
- Rees, D. J. G.**, See Skepu, A.
- Rees, J. D.**, See Ntwasa, M.
- Rees, R. C.**, See Richardson, V. J.
- Reeves, N. E.**, See Pos, K. M.
- Regente, M. C.**
—; Contreras, L. M.; Villalain, J.; de la Canal, L.
Interaction of a sunflower antifungal LTP with model membranes, A405
- Reguenga, C.**
—; Gouveia, A. M.; Oliveira, M. E.; Sa-Miranda, C.; Azevedo, J. E.
Characterization of the PTS1-receptor, Pex5p, from rat liver, A354
- Rehak, M.**, See Rabinkov, A.
- Reich, S.**
—; Mücke, M.; Möncke-Buchner, E.; Reuter, M.; Krüger, D. H.
DNA cleavage by the restriction endonuclease *EcoP15I*, A331
- Reichhart, J. M.**
—; Signalling pathways in the *Drosophila* immune response, A488
- Reid, J.**
—; McEwan, I.
Interaction of the androgen receptor with the C-terminal domain of RAP74, the large subunit of the general transcription factor TFIIIF, A88
- Reid, M.**, See Richmond, S. A.
- Reinberg, D.**
—; RNA polymerase II meets the nucleosome, A105
- Reiter, W.**, See Untergasser, G.
- Reith, A. D.**, See Cross, D. A. E.; Hughes, J. P.
- Reithmeier, R. A. F.**, See Quilty, J. A.
- Remy-Martin, J.-P.**, See Nemos, C.
- Renkawitz, R.**, See Lutz, M.
—; Mediation and modulation of thyroid-hormone receptor repression, A63
- Resende, C. G.**, See Parham, S. N.
- Retnoningrum, D.**, See Akhmaloka, A.
- Reuter, M.**, See Mücke, M.; Reich, S.
- Reva, O.**, See Lukyanchuk, V.
- Revesz, T.**, See Gillet, S.
- Reville, W. J.**
—; Plain speaking in scientific terms, A2
- Reyhaneh, R. S.**
—; Lactate dehydrogenase in the tears of contact lens wearers, A319
- Reynolds, D.**, See Paraoan, L.
- Reynolds, E.**, See Slakeski, N.
- Reynolds, N. J.**, See Fearon, P.
- Rezaei-Tavirani, M.**, See Morvarid, M.
- Riazi, Q. H.**, See Pour, A. E.

- Ribeiro, A. M. R.**, See Mestre Prates, J. A.
- Riberty, M.**, See Doublet, P.
- Ricciarelli, R.**
—; Zingg, J. M.; Azzi, A.
CD36 scavenger receptor expression and oxLDL uptake are inhibited by vitamin E, A242
- Rice, D.**, See Slabas, A. R.
- Rice, D. W.**, See Hayman, M. W.; Ruzheinikov, S. N.
- Rice, L.**
—; Phoenix, D. A.; Wainwright, M.
Cell killing by cationic photosensitizers in the SK-23 and SK-MEL-28 melanoma cell lines, A30
- Richardson, J.**, See Chapman, S. C.; Pollard, C. L.
- Richardson, S.**
—; Seymour, A.-M. L.
Myocardial glycogen turnover in cardiac hypertrophy, A161
- Richardson, V.**, See Tebogo, O. M.
- Richardson, V. J.**, See Pham, T. N. Q.
- ; Rees, R. C.; Taub, D.
Synergistic effects of C-C chemokines and cytokines on the regulation of matrix metalloproteinase (MMP) production by mono mac 6 cells, A340
- Richmond, S. A.**, See Green, M. T.
- ; Trowbridge, A. D.; Reid, M.
Storage of gene libraries as glycerol stocks in 1536-well plates, A365
- Richmond, W.**, See Landham, P. R.
- Richter, R. J.**, See Li, W. F.
- Rico, M.**, See Vila, R.
- Ridd, K.**
—; Alexander, D. J.; Reed, C. J.
Foetal rat lung epithelial (FRLE) cells: an *in vitro* lung model?, A438
- Riddell, D. R.**, See Mulcahy, J. V.
- Rider, C. C.**, See Garnier, P. C.
- Riek, T.**, See Engstler, M.
- Rigden, D. J.**, See Fothergill-Gilmore, L. A.
- Ritchie, S.**, See Bonham, K.
- Rizov, I.**
—; Doulis, A.
Determination of glycerolipid composition of rice and maize tissues using solid-phase extraction, 586
- Robainas, A.**, See Espinosa, G.
- Robainas Barcia, A.**
—; Garcia Machado, E.; Monnerot, M.; Espinosa, G.
Microsatellites characterization in the pink shrimp *Farfantepenaeus notialis*, A182
- Roberts, G.**, See Baker, K. N.
- Roberts, L.**, See Argent, R.
- Roberts, M. M.**
—; Coker, A. R.; Coates, A. R. M.; Wood, S. P.
Crystal structure of tetradecameric *Mycobacterium tuberculosis* chaperonin 10, A76
- Roberts, M. R.**, See Holtman, W. L.
- Roberts, N. B.**, See Sargazi, M.; Zhu, H.
- Roberts, R. A.**, See Chevalier, S.; Orphanides, G.
- Roberts, S. G.**, See Jeremy, A. H. T.
- Roberts, W.**, See Vincent, J. B.
- Robertson, H. A.**, See Denovan-Wright, E. M.
- Robin, M.-A.**
—; Anandatheerthavarada, H. K.; Biswas, G.; Avadhani, N. G.
Mechanisms of dual targeting of P450E1 to ER and mitochondria, A354
- Robinson, C.**, See Woolhead, C.
- ; Novel mechanisms for the targeting of proteins into and across chloroplast membranes, A58
- Robinson, D. J.**, See Ryabov, E. V.
- Robinson, G.**, See Weeks, M.
- Robinson, N. P.**, See McCulloch, R.
- Robinson, S. A.**
—; Smith, J. E.; Millner, P. A.
Phage display as a tool for investigating *Toxoplasma gondii* host cell attachment, A483
- Röder, A.**, See Zaiss, K.
- Rodger, A.**, See Pandya, M. J.
- Roditi, L.**, See Asbeck, K.
- ; The trypanosome surface coat and the tsetse fly: cutting a long story short?, A474
- Rodrigues, R.**
—; Agostinho, M.; Oliveira, S.; Rodrigues-Pousada, C.
One hypothetical multisubunit membrane-bound [NiFe]hydrogenase in *Desulfovibrio gigas*, A182
- Rodrigues-Pousada, C.**, See Broco, M.; Rodrigues, R.
- Roepstorff, P.**, See Sonksen, C. P.
- Rogers, H. J.**, See Baldwin, A.
- Rogers, M.**, See Allardyce, C.
- Rogers, M. S.**, See Firbank, S. J.
- Rogov, V. V.**, See Zamyatkin, D. F.
- Roh, T.**
—; Hwang, I.; Kim, J. H.; Kim, M.; Yoo, K. S.; Koh, E. H.; Choi, M.-U.
Involvement of sulphydryl groups in the activity regulation of α type phospholipase D, A331
- Rojas-Herrera, R.**
—; Monforte-González, M.; Méndez-Zeal, M.; Loyola-Vargas, V. M.
Possible involvement of an acidic chitinase during somatic embryogenesis in *Coffea arabica* L., A405
- Rojo-Domínguez, A.**, See Cabrera, N.
- Rolfs, N.**, See Leadsham, J. E.
- Rolles, K.**, See Punshon, G.
- Roma, M. G.**, See Coleman, R.
- Romagnani, S.**, See Piccinni, M.-P.
- ; Role of T-cell cytokines in embryo implantation and miscarriage, A20
- Romanowicz-Makowska, H.**, See Smolarz, B.
- Rombaut, D.**, See Breyne, P.
- Rometjn, G. J.**, See Waterham, H. R.
- Romero, G. O.**, See Aldemita, R. R.
- Romero, I.**, See Celis, H.
- Roobol, A.**
—; Grantham, J.; King, M. D. A.; El Alami, W.; Wilson, S. J.; Yuan, A.; Bray, J. J.; Carden, M. J.
Eukaryotic chaperonin CCT: prolonged interaction with cytoskeletal components, A415
- Roopra, A.**, See Wood, I. C.
- ; Sharling, L.; Wood, I. C.; Briggs, T.; Bachfischer, U.; Paquette, A. J.; Buckley, N. J.
Transcriptional repression by the neuron-restrictive silencer factor (REST/NRSF) is mediated via the Sin3/histone deacetylase complex, A88
- Roos, D.**
—; The apicoplast—where did it come from what does it do? Mining the *Plasmodium* genome to define an organellar 'metabolome', A473
- Roper, J. R.**
—; Milne, K.; Güther, M. L. S.; Ferguson, M. A. J.
Cloning, complementation and expression of UDP glucose 4' Epimerase from *Trypanosoma brucei* and *T. cruzi*, A483
- Cloning, complementation and expression of UDP glucose 4' epimerase from *Trypanosoma brucei* and *T. cruzi*, A337
- Roques, B. P.**, See Reaux, A.
- Rosa, J. C.**, See Ward, R. J.
- Rosahl, S.**, See Hornung, E.
- Rosanckiewicz, J.**, See Landham, P. R.
- Roscoe, T.**, See Puyaubert, J.
- Roscoe, T. J.**, See Maisonneuve, S.
- Rose, M.**, See Westbrook, J. A.
- Rosen, B. P.**, See Bhattacharjee, H.
- ; Structure-function relationships in a novel anion-translocating ATPase, A66
- Rosler, R. J.**, See Goffe, R. A.
- Rosolu, N.**, See Aschie, I.
- Rossjohn, J.**
—; Crystal structure of the N-terminal heparin-binding domain of Alzheimer's amyloid precursor protein, A447
- Rostan, M. C.**, See Prevot, D.
- Rotem-Yehudar, R.**
—; Galperin, E.; Horowitz, M.
EHD1 (EH domain containing protein 1) is associated with IGF-1 receptor endocytosis, A356
- Roth, M.**, See Cranz, S.
- Roth, M. G.**, See Keren, T. A351
- Rothermund, C. A.**
—; Vishwanatha, J. K.
Molecular mechanisms of apoptosis regulation in prostate cancer, A382
- Rothery, R. A.**
—; Cecchini, G.; Schröder, I.; Weiner, J. H.
Defining the Q_p site of *Escherichia coli* menaquinol: fumarate oxidoreductase (FrdABCD) by fluorescence quench titrations and site-directed mutagenesis, A190
- Röttgers, K.**, See Krohn, N. M.
- Rouet, P.**, See Lorino, H.
- Rouleau, N.**, See Jänne, O. A.
- Rovigatti, U.**
—; Bevilacqua, G.; Sordat, B.
MF virus induces MYCN DNA amplification typical of pediatric neuroblastoma and transforms benign neuroblasts into cells highly tumorigenic in nude mice, A225
- Rowe, D.**
—; Culbert, A.; Jeremy, J. Y.
Calcium pool status controls human vascular smooth muscle cell proliferation through modulation of the ERK1/2 axis and cyclin D1 expression, A296
- Rowland, M.**, See O'Neill, C.
- Roy, A. B.**
—; Ellis, A. J.; White, G. F.; Harwood, J. L.
Microbial degradation of the plant sulpholipid, 781
- Roy, B.**
—; Clayette, P.; Bosquet, N.; Lemaire, G.; Lepoivre, M.
Enhancement of the anti-HIV activity of 3TC by depletion of dCTP, A331
- Roy, D. J.**, See Selvarajah, S.
- Rozenstvet, O. A.**
—; Saksonov, S. V.
Seasonal variations of diacylglycerol-*N,N,N*-trimethylhomoserine content in Polypodiophyta, 873
- Ruchaud, S.**
—; Biochemical mechanisms of apoptotic execution, A139
- Rudd, P. M.**, See Sim, R. B.
- Rudenko, G.**
—; The polymorphic telomeres of the African trypanosome *Trypanosoma brucei*, 536

- ; VSG expression site control in African trypanosomes, A474
- Rudolph, R.**, See Esser, D.; Schmidt, U.
- Rueda, A.**
- ; Garcia, L.; Guerrero-Hernandez, A.
Histamine-induced Ca²⁺ release is particularly sensitive to luminal Ca²⁺ in guinea-pig urinary bladder, A281
- Ruepp, S.**, See Asbeck, K.
- Ruggiero, F.**
- ; Recombinant collagen production in tobacco plants, A55
- Ruijter, G. J. G.**, See Benčina, M.
- Ruijter, G. J. G.**, See Bencina, M.
- Ruiz, L.**, See Velasco, M. L.
- Ruiz-Larrea, M. B.**, See Martín, C.
- Ruiz-Sanz, J. I.**, See Martín, C.
- Rullo, R.**
- ; Pieragostini, E.; Di Luccia, A.
Concerted evolution of α globin genes in Podolian cattle (*Bos taurus primigenius*) and river buffalo (*Bubalus bubalis*)?, A186
- Rumpold, H.**, See Untergasser, G.
- ; Untergasser, G.; Hermann, M.; Pfister, G.; Berger, P.
Recombinant expression of the alternative growth hormone/placental lactogen (GH/PL) splicing variant hPL-A2 revealed a membrane associated molecule, potentially involved in local growth regulation, A297
- Rumsby, M.**, See Shann, L.
- Rupniak, H. T. R.**, See Chapman, S. C.; Pollard, C. L.
- Ruppert, T.**, See Hesse, L.
- Rusia, L. U.**, See Simonishvili, S. O.
- Russell, P.**, See Bommer, U.-A.
- Russell, P. H.**, See Kanellos, T.
- Russell, S. J.**
- ; Oliver, J.; Kiviriko, K.; High, S.
Defining the molecular region necessary and sufficient for the interaction between the endoplasmic reticulum chaperone ERp57 and calreticulin, A413
- Ruurs, P.**, See Tepper, A. D.
- Ruuska, S.**, See Ohlrogge, J.
- Ruzgas, T.**, See Fridman, V.
- Ruzheinikov, S. N.**, See Popov, M. E.
- Ruzheinikov, S. N.**
- ; Popov, M. E.; Kashparov, I. V.
A method to predict the impact of point mutations on local structural features, A78
- ; Sedelnikova, S.; Burke, J.; Baker, P. J.; Gore, M.; Rice, D. W.
The mechanism of the oxidation of glycerol to dihydroxyacetone in *Bacillus stearothermophilus*, A331
- Ryabov, E. V.**
- ; Robinson, D. J.; Mayo, M. A.; Barker, H.; Taliany, M.
Movement functions of umbraviruses, A213
- Ryan, E. J.**
- ; Mills, K. H. G.
Immunomodulatory mechanisms of *Escherichia coli* heat-labile toxin, A31
- Ryan, J. P.**
- ; Kearns, P.; Quinn, T.
Comparison of plasma zinc levels in sheep following supplementation with zinc sulphate and bioplex zinc, A26
- Ryazanova, Y. A.**, See Stroev, Y. A.
- Rychkov, G.**, See Brereton, H. M.
- Ryder, C. D.**, See Teakle, G. R.
- Rydström, J.**, See Bill, R. M.
- Ryu, J.-H.**, See Lee, W.-J.
- Saatov, T.**
- ; Role of membrane lipids in intracellular transfer of hormonal signals, A271
- Sabri, G. M.**, See Khafagy, E. Z.
- Sabzevari, O.**
- ; Andalibi, M.; Kamalinejad, M.; Ostad, S. N.
Cytotoxicity assay of fenugreek extract on NIH3T3 fibroblast cells, A204
- Sachana, M.**
- ; Flaskos, J.; Alexaki, E.; Hargreaves, A. J.
The effects of leptophos and carbaryl on differentiating mouse N2a neuroblastoma cells, A438
- Sadeghi, M.**
- ; Naderimanesh, H.; Arab, S.; Moosavi Movahedi, A. A.
Prediction of protein surface accessibility using information theory, A148
- Sadek, O.**
- ; Bitton, S.; Pinxteren, J.; Thomas, G. M. H.
Activation of phosphatidylinositol 4-phosphate 5-kinases by phosphatidylinositol transfer proteins, A360
- Saeed, S. A.**
- ; Rasheed, H.; Hoodbhoj, Z. A.; Pasha, S. R.; Mapara, Z.; Kumar, H.; Shah, B. H.
Interaction of PAF and adrenaline in human platelets is mediated through multiple signalling pathways, A282
- Sage, E.**
- ; Marshall, C.; Birch, J.; James, D.
Proteomic analysis of mammalian cells in culture, A230
- Sahni, G.**, See Vasudha, S.
- Sahraoui, A.**, See Henderson, C. J.
- Saibil, H.**
- ; Molecular chaperone structure and function, A140
- Saibil, H. R.**
- ; Chaperonin structure and function, A51
- Saint-Jore, C. M.**, See Andreeva, A. V.
- Saito, N.**, See Matsubara, K.
- Saito, Y.**, See Teshima, R.
- Sak, K.**
- ; Järv, J.
P2Y receptor assays retrospectively, A199
- Sakaguchi, N.**, See Muramatsu, H.
- Sakaguchi, T.**
- ; Matsuno, K.; Takamori, H.; Tabira, Y.; Miura, R.; Nomiyama, H.
Characterization of liver-expressed CC chemokine LEC, A341
- Sakai, H.**, See Yamagiwa, M.
- ; Komano, T.; Yamagiwa, M.
Membrane binding of insecticidal crystal proteins of *Bacillus thuringiensis*, A438
- Sakai, T.**, See Kuroki, Y.; Uesugi-Hayakawa, R.; Yoshinaga, E.
- ; Nirasawa, Y.; Nomura, Y.; Yoshinaga, E.; Kuroki, Y.; Tajima, A.; Anzai, T.; Wakizaka, A.
Further studies on the analysis of the genes related to the receptor tyrosine kinase in patients with Hirschsprung disease, A302
- Sakanyan, V.**, See Dimova, D.
- Sakarellos, C.**, See Kostelidou, K.
- Sakarellos-Daitsiotis, M.**, See Kostelidou, K.
- Sakata, S. F.**, See Matsuda, K.
- Sakitani, K.**, See Okumura, T.
- Saksonov, S. V.**, See Rozentsvet, O. A.
- Sakuma, S.**, See Muramatsu, H.
- Sakushima, J.**
- ; Okunuki, H.; Akiyama, H.; Goda, Y.; Toyoda, M.; Teshima, R.; Sawada, J.
Examination of active systemic anaphylaxis in oral immunized-mast cell deficient mice, A257
- Sala, C. F.**
- ; Formenti, E.; Terstappen, G. C.; Caricasole, A.
Identification, gene structure and expression of human frizzled-3 (*Hfzd3*), A170
- Salamov, A. A.**, See Pearl, F.
- Salaün, J.-P.**, See Pinot, F.
- Salgado, F. J.**
- ; Lojo, J.; Vinuela, J. E.; Nogueira, M.; Cordero, O. J.
A role for Il-12 on the regulation of plasma membrane compartmentation involved in antigen-receptor function, A254
- Salinas, M.**, See Muñoz, F. M.; Quevedo, C.
- Sallenave, J.-M.**, See Cunningham, G. A.
- Salmon, M.**, See Soares, M. V. D.
- Salohelimo, M.**, See Kruszewska, J. S.
- Salvador, J. M.**, See Sepúlveda, M. R.
- Samarbaf-Zadeh, A. R.**
- ; Lambden, P.; Green, S. M.; Deng, Y.; Caul, E. O.; Clarke, I. N.
The VO3 gene of human group C rotavirus, A213
- Samashev, Z. S.**, See Ludvikova, E. K.
- Sambanthamurthi, R.**
- ; Rajanaidu, N.; Hasnah Parman, S.
Screening for lipase activity in the oil palm, 769
- Sambongi, Y.**
- ; Iko, Y.; Tanabe, M.; Iwamoto-Kihara, A.; Wada, Y.; Futai, M.
Mechanical rotation of γ -c subunit complex in ATP synthase (F_0F_1): direct observation, A188
- Samina, N. M.**
- ; Kostetsky, E. Y.; Velansky, P. V.
On the thermoadaptation molecular mechanism of marine invertebrates, A343
- Sa-Miranda, C.**, See Reguenga, C.
- Sampayo, C. M.**
- ; Young, T. W.
An inorganic pyrophosphatase from lactic acid bacteria, A319
- Sanchez, C.**, See Ademowo, O. G.
- Sánchez, L. B.**
- ; Elmendorf, H.; Nash, T. E.; Müller, M.
DT-diaphorase of the mitochondriate parasite *Giardia lamblia*: a biochemical and structural study, A483
- Sánchez, M. G.**, See Velasco, M. L.
- Sánchez de Jiménez, E.**, See Ayala-Ochoa, A.
- Sánchez de Villarroel, S.**, See Borges, A.
- Sánchez-Jiménez, F.**, See Olmo, M. T.
- Sánchez-Serrano, J. J.**, See Griffiths, G.
- Sanchole, M.**, See Muchembled, J.
- Sandager, L.**
- ; Dahlqvist, A.; Banaś, A.; Ståhl, U.; Lenman, M.; Gustavsson, M.; Stymne, S.
An acyl-CoA:cholesterol acyltransferase (*ACAT*)-related gene is involved in the accumulation of triacylglycerols in *Saccharomyces cerevisiae*, 700
- Sanders, D.**
- ; Calcium signalling and calcium channels in plants and yeast, A56
- Sanderson, A.**
- ; Minchin, S. D.; Busby, S. J. W.
Interactions of *Escherichia coli* RNA polymerase at extended -10 promoters, A287

- Sandhoff, K.**, See Ozhara, H. A.
Sandmann, G., See Krubasik, P.
Sandoval, P., See Eyzaguirre, J.
Sandy, J., See Mushtaq, A.
Sandy, J., See Upton, A.
 —; Noble, M. E. M.; Sinclair, J. C.; Payton, M.; Upton, A. M.; Kawamura, A.; Mushtaq, A.; Delgoda, R.; Sim, E.
 Structure of arylamine-N-acetyl transferases, A74
Sanei, V.
 —; Sarbolouki, M. N.
 New insights in the role of beta-carotene in lipid peroxidation, A399
Sang, Y., See Wang, X.
Sangiambut, S.
 —; Maffouz, M.; Gilpin, M. L.; Brown, K. A.; Fairweather, N.
 Identification of genes involved in two-component signal transduction in *Burkholderia pseudomallei*, A282
Santina, N. M., See Goncharova, S. N.
 —; Kostetsky, E. Y.; Goncharova, S. N.
 Thermotropic behaviour of membrane lipids from brown marine alga *Laminaria japonica*, 894
Santha, I. M., See Mandal, M. N. A.
Santos, C.
 —; Ballesta, J. P. G.
 Functional analysis of protein PO domains interacting with the 26 S rRNA in the *Saccharomyces cerevisiae* ribosome, A211
Santos, D. L., See Abreu, R. V.
Santos, M. A. S., See O'Sullivan, J. M.
Santosham, V., See Koul, H. K.
Santourlidis, S.
 —; Schulz, W. A.
 The cytotoxic effect of DNA methyltransferase I overexpression is mediated by the N-terminal PCNA-binding subdomain, A182
Sanz, E., See Remacha, M.
Saphonov, Yu. P., See Flegontova, V. V.
Sara, M., See Jaramillo, L. R. D.
Saraiva, F. A. L. O., See Alves, C. R.
Saraiva, M. J., See Quintas, A.
Sarakinou, K. S., See Knight, G. L.; Mullins, J. G. L.
Sarandöl, E., See Tokullugil, A.
Saraste, J., See Poussu, A. M.
Sarbolouki, M. N., See Sanei, V.; Stocker, A.
Sareneva, T., See Matikainen, S.
 —; Julkunen, I.; Matikainen, S.
 IFN- α and IL-12 induce IL-18 receptor gene expression in human NK and T cells, A491
Sarg, B., See Talasz, H.
Sargazi, M.
 —; Roberts, N. B.; Shenkin, A.
 Comparative cytological and biochemical studies of a monolayer renal proximal tubular cell exposed to various metal ions in solution, A382
Sarkadi, B.
 —; Structure and function of human ABC transporters involved in multidrug resistance of cancer, A143
Sarkar, M., See Hendriks, E.
Sasai, Y.
 —; Molecular control of induction and specification of vertebrate nervous system, A138
Sasaki, H., See Tanokura, M.
Sasaki, N., See Matsuo, M.
Sasaki, Y.
 —; Asamizu, E.; Shibata, D.; Nakamura, Y.; Kaneko, T.; Awai, K.; Masuda, T.; Shimada, H.; Takamiya, K.-i.; Tabata, S.; Ohta, H.
 Genome-wide expression-monitoring of jasmonate-responsive genes of *Arabidopsis* using cDNA arrays, 863
Sasso, M. P.
 —; Faggioli, L.; Confalone, E.; Palmieri, M.; Furià, A.
 Characterization of the CBF1 nuclear protein, A287
Sassone-Corsi, P.
 —; Signalling to chromatin: from cell proliferation to physiological responses, A118
Sassoon, J., See Stocker, A.
Satake, H.
 —; Hisada, M.; Kawada, T.; Minakata, H.; Ukena, K.; Tsusui, K.
 A novel hypothalamic RFamide peptide gene: sequence, localization, and gene-related peptides, A207
Sato, K., See Balaji, R. A.
Sato, K., See Kumazawa, T.
Sato, K.-I., See Tokmakov, A. A.
 —; Kimoto, M.; Kakumoto, M.; Horiuchi, D.; Iwasaki, T.; Tokmakov, A. A.; Fukami, Y.
 EGF-induced translocation of the adaptor protein Shc is involved in up-regulation of the tyrosine kinase c-Src in A431 cells, A432
Sato, M., See Utsumi, T.
Sato, N.
 —; Hagio, M.; Wada, H.; Tsuzuki, M.
 Environmental effects on acidic lipids of thylakoid membranes, 912
Sato, O., See Motojima, K.
Sato, S., See Williamson, D. H.
Sato, Y., See Obayashi, M.
Sauer, M. J., See Darbre, P. D.
Sauer, M. J., See Higman, J. R.
Saulnier, J., See Vessillier, S.
Saunders, J. E.
 —; Skinner, M. A.; Vaithanomsat, P.; Brown, K. A.
 Expression and purification of EPSP synthases from pathogenic organisms, A332
Savile, C. K., See Meesapyodsuk, D.
Savill, N. J., See Hoyle, D. C.
 —; Higgs, P. G.
 The evolution of minicircles and guide RNAs in Trypanosomes, A481
Savva, D., See Lawes, K. P.
Sawada, J., See Okunuki, H.; Sakushima, J.
Sawada, J., See Teshima, R.
Sawhney, V. K., See Blahut-Beatty, L. M.
Sawyer, W. H., See Dixon, M.
Saxty, B. A.
 —; Johnstone, S. R.; Yadollahi-Farsani, M.; Macdermot, J.
 Cell surface ADP-ribosyltransferase attenuates PDGF-BB dependent proliferation of cells, A297
Sayanova, O., See Beaudoin, F.; Longman, A. J.; Whitney, H.
 —; Beaudoin, F.; Libisch, B.; Shewry, P.; Napier, J.
 Mutagenesis of the borage Δ^6 fatty acid desaturase, 636
Sayion, Y.
 —; Wang, A.-Y.; Sung, H.-Y.
 Inhibition of rice sucrose synthase by 2,4,6-trinitrobenzenesulfonic acid and diethylpyrocarbonate, A406
Saysell, C. G., See Kurtis, C.
Scaloni, A., See Marsich, E.
Scaramucci, S., See Magnani, M.
Schaaper, R. M., See Maliszewska-Tkaczyk, M.
Schäfer, U. A., See Meesapyodsuk, D.
Schaller, H., See Bouvier-Navé, P.
Schapira, A. H. V., See Muddle, J. R.; Williams, S. L.
Scharf, K.-D., See Heerklotz, D.
Scharner, A., See Ponte-Sucre, A. I.
Scheel, D., See Noehringer, C.
Schekman, R.
 —; Coat protein-mediated packaging of secretory proteins, A115
Scheller, F. W., See Fridman, V.
 —; Electrochemical investigation of cellobiose oxidation by cellobiose oxidase in the presence of cytochrome *c* as mediator, A20
Schels, H., See Zaiss, K.
Schenkman, S.
 —; Gene expression and nuclear reorganization in *Trypanosoma*, A111
Scherer, S. W., See Vincent, J. B.
Schett, G., See Perschinka, H.
Scheuer, T., See Ratcliffe, C. F.
Schier, A.
 —; Genetic analysis of gastrulation in zebrafish, A140
Schierer, T., See Slabas, A. R.
Schierer, T. F., See Hayman, M. W.
Schimpf, S., See Hassan, P.
Schlesinger, R., See Fastermann, D.
Schlessinger, J.
 —; Cellular signalling by tyrosine phosphorylation, A128
Schmatchenko, V. V.
 —; Denmukhametova, S. V.; Piskareva, O. A.
 Reverse transcriptase encoded by the human L1 retrotransposon: effect of deletions on the reverse transcriptase activity, A237
Schmehl, K., See Florian, S.
Schmehl, K., See Marinovic, M.
Schmid, G. H., See Radunz, A.
Schmid, M., See Pahan, K.
Schmidlin, F., See DeFea, K.
Schmidt, M. C.
 —; Jespersen, L. K.; Coleman, S.; Keinänen, K. P.
 A recombinant Fab antibody for analysis and isolation of AMOA receptors, A394
Schmidt, S. R.
 —; High throughput protein expression, purification and characterization technologies, A263
Schmidt, U.
 —; Günther, C.; Rudolph, R.; Böhm, G.
 Protein and peptide delivery via engineered polyoma-virus-like particles, A150
Schmitz, J., See Johnston, I.
Schmoor, C., See Martens, U. M.
Schnable, P. S., See Nikolau, B. J.
Schnauffer, A., See Myler, P. J.
Schneider, J.
 —; Scientific potential of X-ray free-electron lasers, A133
Schneider, K., See Gray, J.
Schnell, D. J., See Chen, K.
 —; Mechanism of protein import across the chloroplast envelope, A57
Schnurr, J., See Shockey, J.
Schnurr, J. A.
 —; Shockey, J.; Browse, J.
 Characterization of an acyl-CoA synthetase from *Arabidopsis thaliana*, 957
Schoenfeld, N.
 —; Bauer, M. K. A.; Grimm, S.
 A genetic screen for apoptosis-inducing genes, A382
Schoettler, S.
 —; Christ, F.; Pingoud, V.; Wende, W.; Pingoud, A.
 Identification of the catalytic centres of the homing endonuclease PI-Scel by site-directed mutagenesis, A332
Schoner, W., See Li, S.-q.
Schreiber, L., See Pinot, F.

- ; Skrabs, M.; Hartmann, K.; Becker, D.; Cassagne, C.; Lessire, R.
Biochemical and molecular characterization of corn (*Zea mays* L.) root elongases, A67
- Schröder, E.**
—; Lebedev, A. A.; Isupov, M. N.; Littlechild, J. A.
Structure and mechanism of human decameric 2-cys peroxiredoxin, A314
- ; Littlechild, J. A.; Lebedev, A. A.; Isupov, M. N.
Structure and mechanism of decameric 2-cys peroxiredoxin from human erythrocytes, A75
- Schröder, I.**, See Rothery, R. A.
- Schröder, R.**, See Vielhaber, S.
- Schroeder, R.**, See Fuerst, D. O.
- Schubert, H. L.**, See Raux, E. C.
- Schubert, T. E. O.**, See Chapman, S. C.; Williamson, R.
- ; Anderton, B. H.
Interleukin-6-type cytokines induce rapid secretion of amyloid precursor protein, A32
- Schuldiner, S.**
—; A common binding site for substrates and protons in EmrE, an ion-coupled multidrug transporter, A143
- Schulz, J.**, See Jacobasch, G.
- Schulz, W. A.**, See Santourlidis, S.
- Schulze, D. L. C.**
—; Visser, L.; Louw, A. I.
In vitro effects of modified oligodeoxynucleotides targeted against the malaria parasite, *Plasmodium falciparum*, A467
- Schurter, B. T.**, See Stallcup, M. R.
- Schwabe, J.**
—; Nuclear receptor-co-repressor interactions, A63
- Schwabe, J. W. R.**, See Love, J. D.
- Schwabe, T. M. E.**
—; Gloddek, K.; Masgaj, M.; Kahmann, U.; Chitnis, P. R.; Kruij, J.
Biogenesis and assembly of the membrane protein photosystem I, A406
- Schweighofer, A.**, See Weingartner, M.
- Schweizer, A.**, See Valdenaire, O.
- Schwender, J.**, See Mueller, C.; Zeidler, J.
- Scott, G.**, See Kanke, T.
- Scott, G. A.**, See Seatter, M. J.
- Scott, J.**
—; Molecular organization of cytoskeletal transduction complexes, A142
- Scott, J. M.**, See McKinley, M. C.
- Scott, K. A.**, See Wood, E. J.
- Scott, V.**, See Vaughan, S.
- Scott, W.**, See Donaldson, E.
- Scrutton, N. S.**
—; Enzymes in the quantum world, A1
- Searle, P. F.**, See Lovering, A. L.
- Seatter, M. J.**, See Kanke, T.
- ; Scott, G. A.; Kanke, T.; Macfarlane, S. R.; Plevin, R.
Deletion of proteinase-activated receptor-2 (PAR2) C-terminal tail impairs intracellular signal transduction, A271
- Sebastian, L. S.**, See Aldemita, R. R.
- Sechenykh, A. A.**, See Ivanov, A. S.
- Sedelnikova, S.**, See Ruzhenikov, S. N.
- Sedelnikova, S. E.**, See Hayman, M. W.
- Sedo, A.**
—; Malik, R.; Vlasicova, K.; Lisa, V.; Drbal, K.; Mares, V.
Changes of dipeptidyl peptidase IV activity distribution in glioma cells induced by alteration of proliferation rate and status of differentiation, A295
- Segal, D.**, See Gur, D.
- Segel, I. H.**, See MacRae, I. J.
- Seidman, J.**
—; Familial hypertrophic cardiomyopathy in mice and men, A104
- Sekhon, A.**, See Koul, H. K.
- Selisko, B.**, See Gazarian, K. G.
- Sellwood, C.**
—; Slabas, A. R.; Rawsthorne, S.
Effects of manipulating expression of acetyl-CoA carboxylase I in *Brassica napus* L. embryos, 598
- Selvakumar, P.**
—; Nirasawa, S.; Aoyagi, C.; Mori, S.; Kitaoka, M.; Hayashi, K.
Cloning and expression of a gene encoding a bacterial enzyme for aminopeptidase P from *Thermotoga maritima*, A320
- Selvarajah, S.**
—; Dutia, B. M.; Roy, D. J.; Stewart, J. P.; Nash, A. A.
Green fluorescent protein expressing recombinant virus: a useful tool for *in vivo* study of a natural γ -herpesvirus infection, A213
- Selwood, S. P.**
—; Chronic inhibition of mitochondrial translation induces an increase in mitochondrial DNA transcription without concomitant amplification, A10
- ; Chrzanowska-Lightowlers, Z. M. A.; Lightowlers, R. N.
Does the mitochondrial transcription-termination complex play an essential role in controlling differential transcription of mitochondrial DNA?, 154
- Semenihina, A. V.**
—; Matasova, L. V.; Popova, T. N.; Pinheiro de Carvalho, M. A. A.
Physical and chemical properties of plant glucose-6-phosphate dehydrogenase and phosphoglucomutase, A406
- Semple, C. A. M.**, See Millar, J. K.
- Sen, S.**
—; Rao, B. J.
The putative 'RecA-motor' realigns sub-optimally paired frames of DNA repeats in an ATP hydrolysis dependent manner, A168
- Senn, J. A.**, See Goffe, R. A.
- Seno, H.**, See Kumazawa, T.
- Šentjurc, M.**, See Turk, M.
- Seo, J.-S.**, See Lee, J.-S.
- Seo, M. Y.**, See Lee, D. G.
- Seow, O.-T.**, See Yongvanit, P.
- Seppälä, M.**, See Koistinen, H.
- Seppet, E.**, See Gellerich, F. N.
- Sepúlveda, M. R.**
—; Berengena, M.; Salvador, J. M.; Mata, A. M.
Mg²⁺- and CA²⁺-dependent ATPases from pig brain: a comparative study, A39
- Serdar, A.**, See Tokullugil, A.
- Serdar, Z.**, See Tokullugil, A.
- Serio, T. R.**
—; Self-perpetuating changes in Sup35 protein conformation as a mechanism of heredity in yeast, A50
- Serkedjilava, J.**
—; A plant preparation from *Geranium sanguineum* L. inhibits influenza virus specific macromolecular synthesis, A439
- Serrano, L.**
—; Prediction of protein-folding pathways: experiments and theory, A49
- Serrano, M.**, See Celis, H.
- Serva, S.**
—; Weinhold, E.; Klimašauskas, S.
Stopped-flow fluorescence studies of DNA base-flipping by *Hha*I methyltransferase, A468
- Severin, E.**
—; Posypanova, G.; Sladkova, L.; Sotnichenko, A.; Surovoy, A.; Moskaleva, E.; Severin, S.
Regulation of an apoptosis of the human tumor cells using the antisense oligonucleotides to gene bcl-2: the influence of the method of delivery, A242
- Severin, S.**, See Severin, E.
- Severina, I. I.**
—; Muntyan, M. S.; Lewis, K.
Antibacterial agents berberine, palmatine and benzalkonium are cationic penetrants for model and bacterial membranes, A394
- Seyama, Y.**, See Hori, S.
- Seydel, U.**, See Brandenburg, K.
- Seymour, A.-M. L.**, See Richardson, S.
- Sha, S.**
—; Aoki, Y.; Mukai, H.; Nishi, Y.
A novel cell surface protein associated with selective induction of G-CSF in macrophages, A271
- Shabani, M.**, See Andi, B.
- Shafie, M. A.**, See El-Ahmad, O.
- Shafiq, M.**
—; Skinner, M. A.; Carpenter, E. P.; Brown, K. A.
Dehydroquinase synthase-inhibitor complexes, A332
- Shafique, M.**
—; Caswell, A. M.
Differential effects of P₁- and P₂-purinoceptor activation on proliferation of human osteoblasts, A356
- Shah, B. H.**, See Saeed, S. A.
- Shah, K.**, See Taylor, V.
- ; Dubey, R. S.
Cadmium-induced suppression in the activities of key metabolic enzymes and synthesis of stress-specific proteins in growing rice (*Oryza sativa* L.) seedlings, A468
- Shaha, C.**, See Mukherjee, S. B.
- Shahi, H.**, See Hazrati-tappe, K.
- Shahmuradov, I. A.**
—; Mustafayev, N. Sh.; Aliyev, J. A.
Organization of plastid genes' promoters, A148
- Shaker, Y.**, See Khalifa, A.
- Shalitin, Y.**, See Gur, D.
- Sham, M. H.**, See Chen, Y. S.
- Shamansurova, Z. M.**
—; Turakulov, Y. K. H.; Akbarov, Z. S.; Normukhamedova, N. F.; Akhmedova, M.; Kim, A. A.
Erythrocyte glucose uptake increase in patients with diabetes mellitus, A161
- Shamir, A.**
—; Characterization of mouse inositol monophosphatase genes, A451
- Shanahan, C.**
—; O'Neill, C.
Assessment of the integrity of metabotropic glutamate receptor binding and its functional coupling to G-proteins in human brain and in Alzheimer's disease, A35
- Shanahan, F.**, See Nally, K.
- Shanahan, F. L.**, See Mullan, B. M.
- Shanko, V. M.**, See Flegontova, V. V.
- Shann, L.**
—; Wolowacz, R.; Rumsby, M.
Substrata, signals and protein kinase C subspecies regulating chondrocyte differentiation/dedifferentiation, A86
- Shannon, M. F.**, See Wang, J.

- Shapper, R. M.**, See Gawel, D.
Sharling, L., See Roopra, A.
Sharma, B., See Siddiqi, N. J.
Sharma, M., See Veeranna, P. S.
Sharma, M. K., See Wright, J. M.
Sharma, M. R.
 —; Jeyakumar, L.; Fleischer, S.; Wagenknecht, T.
 Structure of ryanodine receptor isoforms in different functional states as visualized by three-dimensional cryo-electron microscopy, A394
- Sharp, P. M.**
 —; Bailes, E.; Gao, F.; Beer, B. E.; Hirsch, V. M.; Hahn, B. H.
 Origins and evolution of AIDS viruses: estimating the time-scale, 275, A24
- Sharpe, R. G.**
 —; Dunn, A. M.; Smith, J. E.
 The evolutionary origins and impact of vertical transmission in the microsporidia, A484
- Sharrocks, A. D.**, See Vickers, E. R.
Shaw, J. J., See Tolezano, J. E.
Shaw, L., See Darbre, P. D.
Shaw, L. E.
 —; Darbre, P. P.
 Regulation of CD63 protein in human breast cancer cells, A225
- Shaw, P. C.**, See Lee, K. F.; Lee, W. C.
Shcherbakov, A. A., See Zakharova, E. A.
Shcherbakova, A.
 —; Zozulya, V.; Blagoi, Y.; Dubey, I.; Fedoryak, O.; Fedoryak, D.
 Molecular hybridization of decathymidylate modified with a phenazine derivative, A468
- Shearman, M. S.**, See Beher, D.; Clarke, E.
Shears, S. B., See Barker, C. J.
Sheehan, D., See O'Sullivan, S.
 —; Chemical modulation of chemotherapy resistance in cultured oesophageal carcinoma cells, A4
 —; Meade, G.
 Chemical modulation of chemotherapy resistance in cultured oesophageal carcinoma cells, 27
- Sheehan, J.**, See Patrakitkomjorn, P.
Sheikh, M. A.
 —; Latif, F.; Hussain, A.; Ahmad, R.; Jamil, A.
 Purification and characterization of β -glucosidase and xylanase from *Sporotrichum thermophile* and *Chaetomium thermophile* respectively, A320
- Shelton, P.**, See Jethwa, V. K.
Shen, A. L., See Hubbard, P. A.
Shen, Y. F., See Chen, X. S.; Zhang, Y.
Sheng, J., See Luo, J. Z.
Sheng, Z. T., See Wong, H. T.
Shenkin, A., See Sargazi, M.
Shepherd, D. A. L., See Lawes, K. P.
Sheppard, H. M., See Harries, J. C.
Sheppard, P. W., See Pollard, C. L.
Sheridan, J. M., See El-Agnaf, O. M. A.
 —; Bull, T.; Sumar, N.; Cheng, J.; Stellakis, M.; Ford, J.; Hermon-Taylor, J.
 Prediction of the structure, function and cellular location of proteins encoded by the GS element, a 'pathogenicity island' in *Mycobacterium avium* subsp. *paratuberculosis* (MAP), A234
 —; Bull, T.; Sumar, N.; Cheng, J.; Stellakis, M.; Hermon-Taylor, J.
 Prediction of the structure, function and cellular location of proteins encoded by the GS element, a 'pathogenicity island' in MAP, *Mycobacterium avium* subsp. *paratuberculosis*, A76
 —; El-Agnaf, O. M. A.; Siligardi, G.; Austen, B. M.
 Conformational studies of the fibrillogenic ABRI peptide in familial British dementia, A76
- Shervington, A.**, See Abbasi, L.; Anabousi, S.
Shevelev, I. V.
 —; Belyakova, N. V.; Kravetskaya, T. P.; Smirnova, E. A.; Krutyakov, V. M.
 High accuracy of DNA synthesis catalyzed by the complex of DNA polymerase alpha with 3'-5' exonucleases and other proteins from nuclear membranes of rat hepatocytes, A168
- Shewry, P.**, See Sayanova, O.
Shewry, P. R., See Beaudoin, F.
Shi, J., See Innis, C. A.
 —; Gregg, K.
 Identification of bacterial toxins for control of parasitic nematodes, A151
- Shiau, R.-J.**, See Jeang, C.-L.
Shibahara, Y., See Ishizuka, M.
Shibata, D., See Sasaki, Y.
Shichijo, C., See Gasumov, K. G.
Shields, D. J.
 —; Agellon, L. B.; Vance, D. E.
 splice variants of human phosphatidylethanolamine *N*-methyltransferase (PEMT) and the regulation of phosphatidylcholine biosynthesis, A468
- Shih, D. M.**, See Li, W. F.
Shiloh, Y.
 —; ATM: conveying signals from damaged molecules, A107
- Shim, I.**, See Kim, H. Y.
Shimada, A., See Abe, K.
Shimada, A., See Kanagawa, M.
Shimada, H., See Maréchal, E.; Sasaki, Y.; Yamaryo, Y.
Shimasaki, H., See Maeba, R.
Shimomura, Y., See Nakashima, H.; Obayashi, M.
Shimoyama, M., See Hara, N.; Terashima, M.; Yamada, K.
Shin, I., See Han, J.-S.
 —; Lee, S.-C.; Yon, C.-S.; Kim, Y.-S.; Han, J.-S.
 Ras GTPase is essential for Fas-mediated activation of phospholipase D in A20 cells, A359
- Shin, J. H.**, See Kim, H.-H.
Shine, A.
 —; McClenaghan, N. H.; Flatt, P.; Malthouse, J. P. G.; Hewage, C.; Newsholme, P.
 Studies of the mechanism of amino acid-induced stimulation of insulin secretion from clonal pancreatic β -cells, A196
- Shingu, T.**
 —; Yamada, K.; Osago, H.; Hara, N.; Terashima, M.; Yamasaki, T.; Moritake, K.; Tsuchiya, M.
 Growth inhibition by LY294002 in human glioblastoma cells, A226
- Shinohara, Y.**
 —; Hino, M.; Ishida, T.; Terada, H.
 Change in culture conditions causes synchronized elevation of transcript levels of type II hexokinase and type 1 glucose transporter in tumor cells, A197
- Shinzawa-Itoh, K.**, See Yoshikawa, S.
Shiokawa, D., See Tanuma, S.
Shirai, H., See Furukawa, K.
Shirley, M. W.
 —; A genetic linkage map of the genome of *Eimeria tenella*, A484
- Shirras, A.**, See Siviter, R. J.
Shirras, A. D., See Isaac, R. E.; Siviter, R. J.
Shishkina, I. G., See Bozhenok, L. N.
Shockey, J., See Schnurr, J. A.; Tilton, G.
 —; Schnurr, J.; Browse, J.
 Characterization of the AMP-binding protein gene family in *Arabidopsis thaliana*: will the real acyl-CoA synthetases please stand up?, 955
- Shokat, K.**, See Taylor, V.
Shore, G.
 —; Regulated targeting of proteins to mitochondria during apoptosis, A127
- Shoshan-Barmatz, V.**, See Gincel, D.
Shpak, G. A., See Nikandrov, V. N.
Shpakov, A. O., See Pertseva, M. N.
Shrimpton, C. N., See Smith, A. I.
Shroff, N. P., See Abraham, E. C.
Shulkes, A., See Hollande, F.
Shupik, M. A., See Alessenko, A. V.
Shvets, V. N., See Davydov, V. V.
Shvyrkova, I. G., See Muranova, T. A.
Shyu, W. C.
 —; Kao, M. C.; Chou, W. Y.; Hsu, Y. D.; Soong, B. W.
 Heat shock modulates prion protein expression in human NT-2 cells, A347
- Sibley, D.**
 —; Motility and cell invasion by *Toxoplasma*, A473
- Siddiqi, N. J.**
 —; Sharma, B.; Alhomida, A. S.
 Determination of the concentration of total, free, peptide-bound, protein-bound, soluble and insoluble collagen hydroxyproline in tissues of bovine eye, A362
- Siddiqui, M. A. Q.**, See Mathew, S.
Sidorova, Y. A.
 —; Grishanova, A. Yu.
 Effects of the vitamin K on the hepatic cytochrome P450 of different rat strains, A439
- Siemion, I. Z.**
 —; Strug, I.; Wyszko, E.; Barciszewski, J.
 Peptides related to archeal tRNAs, A252
- Signorelli, T.**, See Lewis, P. N.
Sigrell, J., See Lott, J. S.
Sigurdson, H., See Heitbrink, D.
Sihag, R. K., See Veeranna, P. S.
Sikora, S. S., See Singh, M. K.
Siletsky, S.
 —; Zaslavsky, D.; Smirnova, I.; Kaulen, A.; Konstantinov, A.
 F-to-O transition of cytochrome *c* oxidase: pH and temperature effects on the kinetics of charge translocation, A469
- Siligardi, G.**, See El-Agnaf, O. M. A.; Sheridan, J. M.
Silkowski, H., See Griffiths, G.
Silwood, C., See Claxson, A.; Grootveld, M.; Lynch, E.; Mills, B.
 —; Grootveld, M.; Lynch, E.; Mills, B.
 Two-dimensional ^1H - ^1H - and ^1H - ^{13}C -NMR analysis of human saliva, A45
- Sim, E.**, See Boukouvala, S.
Sim, E., See Mushtaq, A.
Sim, E., See Sandy, J.; Upton, A.
Sim, R.
 —; Serine proteases of the complement system, A488
- Sim, R. B.**, See Hickling, T. P.; Kojima, M.; Laich, A.; Tan, L. A.
 —; Laich, A.
 Serine proteases of the complement system, 545

- ; Merry, T.; Rudd, P. M.
Glycosylation of C1 inhibitor, A336
- Simmaco, M.**, See Miele, R.
- Simon, I.**, See Tusnady, G. E.
- Simon, J. W.**, See Hayman, M. W.
- Simon, M.**, See Markova, N. G.
- Simon, W. R.**, See Slabas, A. R.
- Simonidze, M.Sh.**, See Simonishvili, S. O.
- Simonishvili, S. O.**
—; Rusia, L. U.; Kuridze, K.Sh.;
Simonidze, M.Sh.; Kupatadze,
R. M.; Svanidze, N. I.; Zaalishvili,
M. M.
Structural organization of the
molecule α -actinin, A145
- Simpson, A.**
—; The complete genome sequence
of the plant pathogen *Xylella*
fastidiosa, A102
- Simpson, P. B.**, See Woollacott, A. J.
- Simpson, R.**, See Lawrenson, I.
- Sims, M. J.**, See Wagner, S. E.
- Simsek, M.**, See Tanira, M. O. M.
- Simão, R. C. G.**
—; Pacheco, A. C.; Gomes, S. L.
Expression and functional analysis of
the calmodulin gene in
Blastocladiella emersonii, A237
- Sinclair, J.**, See Mushtaq, A.
- Sinclair, J. C.**, See Sandy, J.
- Sindhu, R. K.**
—; Kikkawa, Y.
Role of cytochrome P450
monooxygenases in hyperoxic
pulmonary damage, A161
- Singh, M. K.**
—; Prasad, K. N.; Ayyagari, A.;
Kapoor, V. K.; Sikora, S. S.;
Choudhuri, G.
Association of chronic *Salmonella typhi*
infection with carcinoma
gallbladder, A225
- Singh, N.**, See Khanna, N.
- Singh, R. L.**
—; Pandey, A. V.; Tekwani, B. L.
Inhibition of heme detoxification by
halofanthine: a possible mechanism
of antimalarial action, A439
- Singh, S.**, See Liu, Q.; Mohapatra, D. P.
- ; Green, A.; Stoutjesdijk, P.; Liu, Q.
Inverted-repeat DNA: a new gene-
silencing tool for seed lipid
modification, 925
- ; Thomaeus, S.; Lee, M.; Green, A.;
Stymne, S.
Inhibition of polyunsaturated fatty
acid accumulation in plants
expressing a fatty acid epoxygenase,
940
- Singh, S. P.**, See Stoutjesdijk, P. A.
- Singh, V.**, See Moreau, R. A.
- Sinha, A. K.**, See Kahn, N. N.
- Sinha, S.**, See Rappu, P.
- Sinici, I.**
—; Ozkara, H. A.; Ciliv, G.; Topcu,
M.
Effect of a 12 bp deletion mutation in
exon 10 of β hexosaminidase α
subunit gene on enzymes of
heterozygote parents, A307
- Sinitysna, O. I.**, See Ishchenko, A. A.
- Sippl, M.**
—; The role of protein structure in
genomics, A125
- Sippl, M. J.**, See Prlcic, A.
- Sirinupong, N.**
—; Regulation of the expression of
3-hydroxy-3-methylglutaryl CoA
(HMG-CoA) synthase genes in
Hevea brasiliensis, A451
- Sirko, A.**, See Liszewska, F.
- Sisk, E.**, See Myler, P. J.
- Sisodia, S.**
—; Molecular mechanisms of familial
Alzheimer's Disease, A129
- Sitia, R.**, See Benham, A. M.
- Siviter, R.**, See Coates, D.
- Siviter, R. J.**, See Isaac, R. E.
- ; Coates, D.; Isaac, R. E.; Shirras,
A.
The nephrilysin-like gene family in
Drosophila melanogaster, A81
- ; Hurst, D.; Dani, P.; Houard, X.;
Isaac, R. E.; Shirras, A. D.;
Williams, T. A.; Michaud, A.;
Corvol, P.; Coates, D.
Evolution of multiple angiotensin I-
converting enzymes in *Drosophila*
and their role in development, A82
- Skaper, S. D.**, See Cross, D. A. E.;
Hughes, J. P.
- Skepu, A.**
—; Dlamini, Z.; Pretorius, A.;
Liebrich, W.; Meyer, M.; Pugh,
D. J. R.; Rees, D. J. G.
Evaluation of the mammalian DWNN
gene product in apoptosis and CTL
lysis, A382
- Skerry, T. M.**, See Maxfield, S. J.
- Skilling, J.**, See Gostick, D.
- Skingsley, D. R.**
—; White, A. J.
IR analysis of invertebrate mucins,
A86
- Skinner, M. A.**, See Saunders, J. E.;
Shafiq, M.
- ; Titball, R. W.; Oyston, P. C. F.;
Brown, K. A.
Structure-based vaccine design, A332
- Sklenář, J.**, See Sopko, B.
- Skog, S.**, See He, Q.
- Skoging Nyberg, U.**
—; Liljeström, P.
An internal hydrophobic motif in
Semliki Forest virus capsid protein
affects nucleocapsid assembly and
virus morphology, A213
- Skoneczna, A.**, See Podlaska, A.
- Skorko-Glonek, J.**, See Kuczvara, E.
- Skorupińska-Tudek, K.**
—; Hung, V. S.; Olszowska, O.;
Furmanowa, M.; Chojnacki, T.;
Świeżewska, E.
Polyprenols in hairy roots of *Coluria*
geoides, 790
- Skowronski, K.**
—; Dyczkowski, J.; Kierzek, A.;
Zielenkiewicz, P.
A fast measure of significance of
Smith-Waterman alignment for
sequence comparison, A146
- Skrabs, M.**, See Pinot, F.; Schreiber, L.
- Skulachev, P. P.**
—; Korshunov, S.S.; Pereverzev,
M. O.
Cytochrome *c* mitochondria: a novel
antioxidant function, A363
- Skvortsov, V. S.**, See Ivanov, A. S.
- Slabá, S.**, See Mikulová, R.
- Slabas, A. R.**, See Hayman, M. W.;
O'Hara, P.; Sellwood, C.; Wilmer,
J. A.
—; Simon, W. R.; Schierer, T.;
Kroon, J.; Fawcett, T.; Hayman, M.;
Gilroy, J.; Nishida, I.; Murata, N.;
Rafferty, J.; Turnbull, A.; Rice, D.
Plant glycerol-3-phosphate-I-
acyltransferase (GPAT): structure
selectivity studies, 677
- Sladkova, L.**, See Severin, E.
- Slajpah, M.**
—; Bavec, A.; Lenasi, H.; Zorko, M.;
Breskvar, K.
Progesterone receptors coupled to G-
proteins in the plasma membrane of
the fungus *Rhizopus nigricans*, A268
- Slakeski, N.**
—; Dashper, S.; Moore, C.; Reynolds,
E.
Two haemin/iron-transport systems of
Porphyromonas gingivalis, A183
- Slebe, J. C.**, See Yañez, A. J.
- Sledziwska-Gojska, E.**, See Podlaska, A.
- Slezzynger, T.**, See Ajami-Henriquez, D.
- Slivinsky, G. G.**
—; Ludvikova, E. K.; Tleulieva, R.;
Baidavletov, R. Zh.; Ajtkhozina,
N. A.; Bekenov, A. B.
Chromosomal complements and
nuclear DNA polymorphism in
argali (*Ovis ammon* L.) from central
and south-east regions of
Kazakhstan, A183
- Sloof, P.**, See van den Burg, J.
- Slyker, T.**, See Gostick, D.
- Small, I.**, See Fey, J.
- Smaoui, A.**, See Daoud Ben Miled, D.
- ; Chérif, A.
Changes in molecular species of
triacylglycerols in developing cotton
seeds under salt stress, 902
- Smart, O. S.**, See Booth, V. K.; Coates,
G. M. P.; Flint, D. G.
- Smirnova, E. A.**, See Shevelev, I. V.
- Smirnova, E. V.**
—; Evtodienco, A. Y.; Rakitina,
T. V.; Kostanyan, I. A.; Lipkin,
V. M.
HLDF mRNA derives from *rpS21*
gene during human promyelocytic
cell line HL-60 differentiation, A238
- Smirnova, I.**, See Siletsky, S.
- Smith, A.**, See Brockwell, D.
- Smith, A. I.**
—; Neuropeptidases regulating
gonadal function, A60
- ; Shrimpton, C. N.; Norman, U. M.;
Clarke, I. J.; Wolfson, A. J.; Lew,
R. A.
Neuropeptidases regulating gonadal
function, 430
- Smith, A. M.**, See Jones-Heiland, T.
- Smith, B. J.**, See Ahmed, Z.
- Smith, C. W. J.**, See Gromak, N.
- Smith, D.**, See Kad, N.
- ; Functional analysis of *Leishmania*
stage-regulated proteins, A475
- Smith, D. A.**, See Jones, S.
- Smith, D. F.**, See Denny, P. W.;
Knuepfer, E.
- Smith, D. L.**, See Whitaker, B. D.
- Smith, D. M.**, See Conner, A. C.; Hay,
D. L.; Suthar, T.
- Smith, G. V.**, See Bajaj-Elliott, M.
- Smith, J.**, See Gostick, D.; Hogg, J. C.;
Marrone, A. F.; Westbury, J.
- Smith, J. E.**, See Belkacemi, L.;
Duncanson, P.; Ironside, J. E.;
Robinson, S. A.; Sharpe, R. G.;
Terry, R. S.
- Smith, J. L.**, See Rappu, P.
- Smith, K. J.**, See Ray, P.
- Smith, L. B.**, See Teakle, G. R.
- Smith, M.**
—; Moon, H.; Kunst, L.
Production of hydroxy fatty acids in
the seeds of *Arabidopsis thaliana*,
947
- Smith, M. C. A.**
—; Thomas, C. D.
Relaxation of pC221: protein
requirements and plasmid
specificity, A95
- Smith, W. H. T.**
—; Ball, S. G.; Balmforth, A. J.
Somatostatin receptor subtype
expression in human heart, A95
- ; Magbool, A.; Ball, S. G.;
Balmforth, A. J.
A rare polymorphism of the
somatostatin receptor *sst2* detectable
by restriction endonuclease
digestion, A95
- Smolarz, B.**

- ; Blasiak, J.; Romanowicz-Makowska, H.; Zadrozny, M.; Kulig, A.; Pander, B.; Ulanska, J.; Dziki, A.; Pytel, J.
The 4G/5G polymorphism in the promoter of the plasminogen activator inhibitor 1 (PAI-1) gene in patients with breast and colorectal cancer, A226
- Smyth, I.**, See McGlenn, E. C.
Smyth, M. R., See Killard, A. J.
—; Rapid antibody biosensor assays for environmental analysis, A22
- Snappyan, M.**, See Dimova, D.
Snoek, G. T., See van Tiel, C. M.
Snoep, J., See Ter Kuile, B.
Snook, C. F., See Chugh, J.
So, S.-H., See Chang, S.-I.
Soares, M. V. D.
—; Maini, M. K.; Beverley, P. C. L.; Salmon, M.; Akbar, A. N.
Regulation of apoptosis and replicative senescence in CD8⁺ T cells from patients with viral infections, 255
- Sobolewska, M.**
—; Moraczewski, J.
Caloin inhibitor E-64d blocks cell differentiation during myogenesis *in vitro*, A293
- Soboll, S.**
—; Brown, G. C.
The use of *in situ* haemoglobin-free perfused liver in metabolic-control analysis, 109
—; The use of haemoglobin-free perfused liver in metabolic control analysis, A8
- Socaciu, C.**
—; Teaching biochemistry and molecular biology: new approaches for students with a poor background in chemistry, A121
- Soden, P.**, See Chapman, S. C.
Sohelli, Z., See Goliaei, B.
Sohn, B. H.
—; Moon, H. B.; Bae, Y. S.; Kim, T. Y.; Lee, K.-K.; Kim, S. J.
Involvement of interleukin-10 in the mammary cell cycles, A376
- Sohn, J. H.**, See Jung, Y.
Sohn, N. W., See Kang, I.
Soini, A., See Papkovsky, D. B.
Soini, A. E., See Soini, E.
Soini, E.
—; Meltola, N. J.; Soini, A. E.; Soukka, J.; Soini, J. T.; Hänninen, P. E.
Two-photon fluorescence excitation in detection of biomolecules, 70, A21
- Soini, J. T.**, See Soini, E.
Sokolova, E. A.
—; Zamolodchikova, T. S.
Duodenase cleavage of recombinant proenteropeptidase yields an active two-chain product, A469
- Solaiman, D. K. Y.**
—; Ashby, R. D.; Foglia, T. A.
Microbial synthesis of high-molecular-weight medium-chain-length polyhydroxyalkanoates from lipids by *Pseudomonas corrugata*, A151
- Soldati, D.**, See Jean, L.
Soldatkina, M., See Lisovskiy, I.
Solecka, K., See Przykorska, A.
Sollis, R. R., See Aldemita, R. R.
Soll, J.
—; Structure, mechanism and evolution of chloroplast's protein import systems, A127
- Solodushko, V. N.**, See Matyshevska, O. P.
Sonda, S., See Hemphill, A.
Sonenberg, N., See Pyronnet, S.
—; Cell cycle-dependent translational control, A134
- Song, C. W.**, See Okumoto, M.
Song, J.-L.
—; GroEL/GroES promote dissociation/reassociation cycles of a heterodimeric intermediate during a2b2 protein assembly, A450
- Song, J. L.**
—; Wynn, R. M.; Chuang, D. T.
Iterative annealing of a kinetically-trapped assembly intermediate by chaperonins GroEL/GroES, A410
- Sonksen, C. P.**
—; Roepstorff, P.
The combination of biacore and mass spectrometry applied on low molecular weight HIV-protease inhibitors, A365
- Sonoda, Y.**
—; Matsumoto, Y.; Funakoshi, M.; Yamamoto, D.; Hanks, S. K.
Kasahara, T. Anti-apoptotic role of focal adhesion kinase (FAK): induction of inhibitor-of-apoptosis proteins and apoptosis suppression by the overexpression of FAK in a human leukemic cell line, HL-60, A383
- Soomet, U.**, See Farquhar, M. J.
Soomets, U.
—; Lindgren, M.; Gallet, X.; Hällbrink, M.; Elmquist, A.; Balaspiri, L.; Zorko, M.; Pooga, M.; Brasseur, R.; Langel, Ü.
Deletion analogues of transportan, A208
- Soong, B. W.**, See Shyu, W. C.
Sopko, B., See Pavlicek, J.
—; Pavlíček, J.; Sklenář, J.; Bezouka, K.
Molecular model of the rat NKR-P1 protein, A271
- Sordat, B.**, See Rovigatti, U.
Sorgato, M. C., See Negro, A.
Sotnichenko, A., See Severin, E.
Soto, J., See Martinez, C.
Soto-Cruz, I.
—; Valle-Mendiola, A.; Rangel-Corona, R.; Mendoza-Rincon, J. F.; Weiss-Steider, B.
IL-2 induces JAK3, but not JAK1, tyrosine phosphorylation in cervical cancer cell lines CALO and INBL, A283
- Soubeyrand, S.**
—; Tomlinson, J.; Griffin, W.; Haché, R. J. G.
Characterization of two new DNA activators of the DNA-dependent protein kinase, A333
- Soukka, J.**, See Soini, E.
Souopgui, J., See Titanji, V. P. K.
Soutar, I., See Allsop, D.
Southan, C.
—; Bioinformatic analysis of mRNA heterogeneity in the putative Alzheimer's β -secretase, aspartyl protease 2 (ASP2), A84
—; The vertebrate HtrA serine protease family: a new example of horizon gene transfer, A40
- Sparkes, I.**, See Baker, A.
—; Charlton, W.; Baker, A.
Characterization of *Arabidopsis thaliana* PEX10—a peroxisomal membrane protein, A79
- Speijer, D.**, See van den Burg, J.
Speina, E.
—; Ciesla, J. M.; Wójcik, J.; Kusmierek, J. T.; Tudek, B.
The pyrimidine ring-opened derivative of 1,N⁶-ethenoadenine is repaired in DNA by the *Escherichia coli* Fpg and Nth proteins, A168
- Spellacy, N.**, See Buckley, D.
Spencer, I. M.
—; Chegwidan, W. R.
Sulphonamide inhibitors of carbonic anhydrase inhibit growth of human lymphoma cell lines, A297
- Sperling, P.**
—; Blume, A.; Zähringer, U.; Heinz, E.
Further characterization of Δ^8 -sphingolipid desaturases from higher plants, 638
- Spibey, C.**, See Harry, R. A.
Spiegel, S.
—; Sphingosine-1-phosphate: signalling inside and out, A132
- Spinas, G. A.**, See Jaschinski, F.
Spiro, R. C.
—; Extracellular matrices and matrix/growth factor combinations for bone and cartilage repair, A56
—; Liu, L.-S.; Heidaran, M. A.; Thompson, A. Y.; Ng, C. K.; Pohl, J.; Poser, J. W.
Inductive activity of recombinant human growth and differentiation factor-5, 362
- Spitz, L.**, See New, K. J.
Spizek, J., See Gakh, O.
Spong, C. Y., See Brenneman, D. E.
Spooner, G. M., See Pandya, M. J.
Spooner, P. J., See Patching, S. G.
Spooner, P. J. R., See Venter, H.
Spooner, R. K., See Allardyce, C.; Mahmoud, K. M. A. G.
—; Mahmoud, K. M. A. G.; Deacon, S.; McPherson, M. J.
Heterologous expression hosts for galactose oxidase, A71
- Spring, J.**, See Gibson, T. J.
Spycher, S. E., See Stocker, A.
Squires, M. S., See Mansion, M. M.
Srinivasan, K. N.
—; Nirthanan, S. B. C.; Betty, S.; Gopalakrishnakone, P.; Gwee, M. C. E.
3D structure of *Bukatoxin*, a peptide isolated from the venom of the chinese scorpion *Buthus martensi* Karsch, by molecular modelling, A207
- Sripa, B.**, See Yongvanit, P.
Sripa, S., See Patrakitkomjorn, P.
Srivastava, L. M., See Chhabra, S.; Luthra, K.
Staczek, P., See Majchrzak, M. J.
Stafie, C. S.
—; Stafie, L.; Palel, G.
Screening methods in insulinoreistance—the 'bridge' between abdominal obesity and type 2 diabetes, A161
- Stafie, L.**, See Stafie, C. S.
Stagljär, I., See Hottiger, M. O.
Stähl, U., See Banaś, A.; Sandager, L.
Stallcup, M. R.
—; Chen, D.; Koh, S. S.; Ma, H.; Lee, Y.-H.; Li, H.; Schurter, B. T.; Aswad, D. W.
Co-operation between protein-acetylating and protein-methylating co-activators in transcriptional activation, 415
—; Co-operation between protein-acetylating and protein-methylating co-activators in transcriptional activation, A64
- Stambouli, E.**
—; Findlay, J. B. C.
Molecular cloning and characterization of cytoskeletal proteins in squid phototransduction, A283
- Stanaway, I. B.**, See Goffe, R. A.
Stancombe, P., See Isaac, R. E.
Stancombe, P. R.

- ; Gami, M.; Coates, D.; Isaac, R. E. Characterization of neprilysin (NEP) and endothelin-converting enzyme (ECE) genes from *Caenorhabditis elegans*, A82
- Standen, C.**, See McLoughlin, D. M.
- Stankova, B.**, See Pavlicek, J.
- Starrs, S.**
- ; Davies, R. J. H. Alkali-labile DNA damage photosensitized by 2-arylpropionic acids, A24
- Staton, P.**, See Hughes, J. P.
- Štaudohar, M.**, See Bencina, M.
- Stead, L. M.**
- ; Au, K. P.; House, J. D.; Brosnan, M. E.; Brosnan, J. T. Methylation demand and the control of homocysteine metabolism, A469
- Steehls, K.**, See Parkinson, E. K.
- Steel, C. C.**
- ; Keller, M. Influence of UV-B irradiation on the carotenoid content of *Vitis vinifera* tissues, 883
- ; Nichol, A. W. Demonstration of the comparative functions of the pentose phosphate pathway in the wine yeasts, *Saccharomyces cerevisiae* and *Kloekera apiculata*, A145
- Stefanovska, A.-M.**, See Dimovski, A. J.
- Steffensen, J. F.**, See McFarland, S. M.
- Steffensen, S.**, See Cobbe, N.
- Steltz, T.**
- ; The complete atomic structure of the 50S ribosomal subunit and a substrate complex, A103
- ; A presentation on the research and work of the late Professor Paul Sigler., A97
- Stellakis, M.**, See Sheridan, J. M.
- Stemmer, C.**, See Krohn, N. M.
- Stemple, D.**
- ; Screens for mutations affecting embryogenesis in *Xenopus tropicalis*, A141
- Stempliuk, V. A.**, See Tolezano, J. E.
- ; Floeter-Winter, L. M. Structural and functional characterization of rDNA promoter domains of some *Leishmania* species, A484
- Stempliuk, V.A.**
- ; Floeter-Winter, L. M. Structural and functional characterization of the rDNA promoter domains of some *Leishmania* species, A288
- Stenklo, K.**, See Danielsson Thorell, H.
- ; Grahl Johansson, M.; Nilsson, T. Purification and characterization of chlorate reductase from *Ideonella dechloratans*, A321
- Stenlid, G.**, See Banaś, A.
- Stepanov, A. S.**, See Malikova, M. A.
- Stephan, S. M.**, See Brooker, N. L.
- Stephens, L.**
- ; Signalling via PI3Ks, A132
- Stephens, R.**, See O'Neill, C.; O'Neill, C. A.
- Stephens, S. K.**, See Bailey, T. A.
- Stevens, C. A.**, See Brown, V. M. D.
- Stewart, J. P.**, See Selvarajah, S.
- Stewart, V. C.**, See Stone, R.
- Stobart, A. K.**, See Longman, A. J.
- Stobart, K.**, See Chatrattanakunchai, S.; Fraser, T.; Othman, A.
- Stocchi, V.**, See Polidori, E.
- Stocker, A.**
- ; Zimmer, S.; Sarbolouki, M. N.; Spycher, S. E.; Sassoon, J.; Azzi, A. A novel human tocopherol-associated protein: cloning, *in vitro* expression and characterization, A252
- Stockley, P.**, See Argent, R.
- Stockley, P. G.**, See Horn, W. T.
- Stokoe, D.**, See Taylor, V.
- Stolarczyk, K.**, See Banach, M.
- Stoltz, A. C.**, See Korf, J. E.
- Stone, R.**
- ; Stewart, V. C.; Hurst, R. D.; Clark, J. B.; Heales, S. J. R. A human astrocytoma cell line releases and preserves reduced glutathione, A92
- Stonehouse, N. J.**, See Horn, W. T.
- St-Onge, S.**, See Harpin, S.
- Stoutjesdijk, P.**, See Singh, S.
- Stoutjesdijk, P. A.**
- ; Hurlestone, C.; Singh, S. P.; Green, A. G. High-oleic acid Australian *Brassica napus* and *B. juncea* varieties produced by co-suppression of endogenous $\Delta 12$ -desaturases, 938
- Stoylova-McPhie, S.**, See Ward, A.
- Strain, J. J.**, See McKinley, M. C.
- Strange, R. C.**
- ; Multiple cutaneous basal cell carcinomas: association of glutathione S-transferase (GST) and cytochrome P450 (CYP) genotypes with a clinical phenotype, A4
- Stratford, F. L. L.**
- ; Pereira, M. M. C.; Becq, F.; McPherson, M. A.; Dormer, R. L. Characterisation of *in vitro* degradation of the major cytoplasmic domain of CFTR, A354
- Stribrna, J.**, See Kleibl, Z.; Pohlreich, P.
- Strijbos, P. J. L. M.**, See Hughes, J. P.
- Stringer, B. M. J.**, See Price, I. K.
- Strittmatter, W. J.**
- ; Apolipoprotein E and Alzheimer's disease, A16
- Strnad, H.**
- ; Ulbrich, P.; Paces, J.; Hejkalova, V.; Paces, V. Computer-based prediction of exogenous gene clusters and their transcriptional activity in *Rhodobacter capsulatus* SB1003 genome, A183
- Stroev, Y. A.**
- ; Ryazanova, Y. A.; Plyakhin, I. V. Cholera toxin activates calpain in rat thyroid by a cyclic AMP-independent mechanism, A330
- Strug, I.**, See Siemion, I. Z.
- Strukova, S.**, See Kuptsova, S.
- Strzalka, K.**, See Jemiola-Rzemieńska, M.
- Strzalka, K.**, See Latowski, D.
- Stuart, K.**, See Myler, P. J.
- Stuitje, A.**, See Verwoert, I.
- Stupakova, M. V.**, See Lobysheva, I. I.
- Stymne, S.**, See Banaś, A.; Sandager, L.; Singh, S.
- Su, C.**, See Yang, L.
- Su, M.**, See Dennis, R. P.
- Su, T.-M.**
- ; Yang, Y.-S. Identification, purification and characterization of a thermophilic imidase from pig liver, A324
- Suárez, G.**
- ; Raventós-Saárez, C.; Devés, R. *In vivo* inhibition of Maillard protein fluorescence by acetylglycine: possible multiplicity of mechanisms, A204
- Suau, P.**, See Vila, R.
- Subramanian, S.**, See Petrovich, Y. A.
- Sugahara, M.**, See Nakagawa, N.
- Sugano, N.**, See Hibino, Y.
- Sugase, K.**
- ; Oyama, Y.; Kitano, K.; Iwashita, T.; Fujiwara, T.; Akutsu, H.; Ishiguro, M. Characterization of a receptor-bound conformation of mini atrial natriuretic peptide, A207
- Sugawara, K.**, See Hasegawa, S.
- Sugimoto, H.**, See Yao, M.
- Sugimoto, K.**, See Okumoto, M.
- Sugino, H.**
- ; Terakawa, Y.; Yamasaki, A.; Nakamura, K.; Higuchi, Y.; Ikegami, S. A nuclear transglutaminase that modifies histones during starfish embryogenesis, A249
- Sugiura, T.**, See Karasaki, Y.
- Suharto, A.**, See Akhmaloka, A.
- Sui, S. f.**, See Wang, S. X.
- Suleiman, M. S.**, See King, N.
- Sullivan, E.**, See Paraoan, L.
- Sumar, N.**, See Sheridan, J. M.
- Sumbayev, V. V.**, See Yasinska, I. M.
- ; Yasinska, I. M. Comparative studies of the different natured unsteroid estrogens effects on xanthine oxidase (XOD), nitric oxide synthase (NOS), proteinase, deoxyribonuclease and poly-(ADP-ribose) polymerase (PARP) activities, cytochrome P450 isoforms level and cell proliferative activity in the rat liver, A333
- Sumi, T.**, See Moriwaki, S.; Ohba, H.
- Sumi, T.**, See Park, S.-S.
- Sumiishi, A.**, See Uesugi-Hayakawa, R.
- Sun, C.**, See Hayes, J. D.
- Sun, X.-x.**
- ; Wang, C.-c. The N-terminal (1–65) sequence is essential for dimerization, activities and peptide binding of *Escherichia coli* DsbC, A413
- Sundaram, M.**, See Hyde, R. J.
- Sung, H.-Y.**, See Huang, W.-C.; Lin, C.-L.; Sayion, Y.
- Sunkar, R.**, See Arazi, T.
- Sunkel, C.**, See Cobbe, N.
- Sunkin, S. M.**, See Myler, P. J.
- Suram, A.**
- ; First evidence to show the presence of left-handed Z-DNA in hippocampus region of the brain affected by Alzheimer's disease, A454
- Surinya, K. H.**
- ; Cosgrove, L. J.; Francis, G. L.; Wallace, J. C. Epitope mapping of the anti-human insulin-like growth factor type I receptor antibody, alpha IR3, using phage display, A470
- Surolija, A.**
- ; Vingind and folding in legume lectins, A133
- Surolija, N.**
- ; Heme-a key regulator in the human malaria parasite *Plasmodium falciparum*, A197
- Surovoy, A.**, See Severin, E.
- Susama, P.**, See Anup, R.
- Suske, G.**, See Göllner, H.
- Süsleyici, B.**
- ; Erensoy, N.; Öztürk, M.; Çagatay, P.; Alagöl, F.; Tanakol, R.; Yilmazer, S. Association between vitamin D receptor Bsm I polymorphism and osteoporosis in postmenopausal women, A162
- Susuama, P.**, See Aparna, V.
- Suthar, T.**, See Hay, D. L.
- ; Legon, S.; Smith, D. M. Do transcript levels of CRLR and RAMPs account for CGRP and AM binding in cultured cells?, A272
- Suvd, D.**

- ; Fujimoto, Z.; Takase, K.; Matsumura, M.; Mizuno, H.
Crystal structure of *Bacillus stearothermophilus* α -amylase, A423
- Suwa, M., See Pearl, F.
- Suzuki, I.
—; Los, D. A.; Murata, N.
Perception and transduction of low-temperature signals to induce desaturation of fatty acids, 628
- Suzuki, K., See Ohno, H.
- ; Park, Y. S.; Mumby, S.; Taniguchi, N.; Gutteridge, J. M. C.
A new important antioxidant function of caeruloplasmin: glutathione peroxidase-like activity and binding to myeloperoxidase, A321
- Suzuki, M., See Ito, Y.; Moriwaki, S.
- Suzuki, O., See Kumazawa, T.
- Svanidze, N. I., See Simonishvili, S. O.
- Svejstrup, J. O.
—; A histone acetyltransferase associated with the elongating form of RNA polymerase II, A62
- Sveshnikov, A. A.
—; Chernitsyna, N. V.; Kourov, S. V.
The contents of sexual hormones in blood plasma for men with various levels of daily motor performance, A197
- Svingor, A., See Nemeth, A.
- Svistunenko, D. A.
—; Dunne, J.; Nicholls, P.; Cooper, C. E.
Where have all the radicals gone? H₂O₂-induced free radicals in methaemoglobin and metmyoglobin, A78
- Swanson, L., See Allsop, D.
- Swartzbeck, J. L., See Powell, G. L.
- Swarup, R.
—; Marchant, A.; Bennett, M. J.
Auxin transport: providing a sense of direction during plant development, 481
- Sweeney, G.
—; Distinct insulin-stimulated signalling pathways regulating translocation and activation of glucose transporters, A447
- Sweeney, M. C., See Mills, K. I.
- Swelam, M., See Khalifa, A.
- Świeżewska, E., See Skorupińska-Tudek, K.
- Swieżewska, E., See Vo, H. S.
- Swindells, M. B., See Pearl, F.
- Sy, M.-S., See Wong, B.-S.
- Sy, W.-D., See Chen, C.-H.
- Syed, S. H.
—; Trinmanan, B. J.; Martin, S. R.; Magee, A. I.
Analysis of protein-protein interactions of desmosomal cadherins, A399
- Sylte, I., See Lindstad, R. I.
- Syvala, H., See Lyakhovich, A.
- Szarka, S. J., See Weselake, R. J.
- Szatmari, P., See Vincent, J. B.
- Szblewska, I., See Balińska, M.
- Sze, J.
—; Tsang, J. S. H.
Expression of a cryptic haloacid dehalogenase Chd1 from *Burkholderia cepacia* MBA4 in *E. coli*, A151
- Szeberényi, J., See Fábíán, Zs.
- Szewczyk, A., See Kicińska, A.
- Szkopinska, A.
—; Karst, F.
The regulation of activity of the main mevalonic acid pathway enzymes, A333
- Szőr, B., See Bennett, D. H.
- Taanman, J.-W., See Muddle, J. R.; Williams, S. L.
- Tabata, S., See Sasaki, Y.
- Tabira, Y., See Sakaguchi, T.
- Taguchi, T.
—; Hara, T.; Ishii, A.; Duan, J.; Ide, T.; Ohama, K.
Cyclin E and cdk2 are co-expressed in the mouse uterus after implantation, A297
- Taha, M. O., See Afifi, F. U.
- Tait, A., See Hide, G.
—; Genetic analysis of phenotype in *T. brucei*, A472
- Tajima, A., See Sakai, T.; Yoshinaga, E.
- Takacs, M.
—; Fodor, B.; Rakhely, G.; Kovacs, K. L.
Identification of genes coding for proteins playing a role in the maturation processes of thermophilic NiFe hydrogenases, A197
- Takada, T., See Inagaki, K.
—; Noguchi, T.; Inagaki, K.; Yamao, T.; Tsuda, M.; Takeda, H.; Fukunaga, K.; Matozaki, T.; Kasuga, M.
Adenovirus-mediated gene transfer of SAP-1 induces cell death by inhibiting Akt/PKB, A433
- Takahashi, H., See Kajino, T.
- Takahashi, I., See Maeba, R.
- Takami, N., See Kojima, A.
- Takamiya, K.-i., See Maréchal, E.; Sasaki, Y.; Yamaryo, Y.
- Takamori, H., See Sakaguchi, T.
- Takano, K., See Funahashi, J.
- Takase, K., See Suvd, D.
- Takeda, H., See Hori, K.
- Takeda, H., See Inagaki, K.; Takada, T.
- Takeuchi, H.
—; Yoshimura, K.; Kanematsu, T.; Hirata, M.
Interacting molecules with p130, a novel inositol 1,4,5-trisphosphate binding protein, A283
- Takeuchi, S., See Fujiwara, K.
- Takio, K., See Natsume, T.
- Talalkyte, Z., See Vagonis, A.
- Talasz, H.
—; Helliger, W.; Sarg, B.; Lindner, H.; Puschendorf, B.
Changes in phosphorylation of basic nuclear proteins after induction of apoptosis, A383
- Talbot, B. G., See Harpin, S.
- Taliansky, M., See Ryabov, E. V.
- Tam, P. K. H., See Chen, Y. S.
- Tamai, H., See Horton, A. A.
- Tamaki, N., See Matsuda, K.
- Tamaki, N.
—; Matsuda, K.; Fujimoto-Sakata, S.; Horikawa, Y.
 β -Alanine aminotransferases on the overall reaction of pyrimidine catabolism, A198
- Tambyrajah, W. S., See Kurtis, C.
- Tammela, P.
—; Hopia, A.; Hiltunen, R.; Vuorela, H.; Nygren, M.
Aging in *Pinus sylvestris* L. seeds: changes in viability and lipids, 878
- Tamura, K., See Nishiura, H.
- ; Nishiura, H.; Mori, J.; Imai, H.
Cloning and characterization of a cDNA encoding serine palmitoyltransferase in *Arabidopsis thaliana*, 745
- Tan, L. A.
—; McGibbon, N.; Sim, R. B.
Interaction of C1q with phospholipids (PL), A491
- Tan, S.-L.
—; Melville, M. W.; Blakeley, C. M.; Katze, M. G.
Functional and physical interaction between the catalytic subunit of type I protein phosphatase and the interferon-induced PKR protein kinase, A433
- Tanabe, M., See Sambongi, Y.
- Tanaka, H., See Nishida, T.
- Tanaka, I., See Yao, M.
- Tanaka, M., See Morita, N.
—; Morishima, I.; Nukina, N.
Studies on sperm whale myoglobin mutants containing inserted glutamine repeats, A307
- Tanaka, T., See Ohba, H.
- Tanaka, Y.
—; Ota, K.; Itaya, A.; Tatsumi, K.; Kameoka, M.; Yoshihara, K.
Poly(ADP-ribose)polymerase acts conversely in calphostin C-induced apoptosis and H₂O₂-induced necrosis of L1210 cells, A383
- Tanakol, R., See Süsleyici, B.
- Tang, J.-G.
—; Folding pathway of insulin precursor, A136
- Tanigawa, K., See Toyoda, Y.
- Tanigawa, Y., See Hosokawa, Y.; Nabika, T.
- Tanigawa, Y., See Nakamura, M.
- Taniguchi, H. H., See Tolezano, J. E.
- Taniguchi, K., See Abe, K.; Imagawa, T.
- Taniguchi, K., See Kanagawa, M.
- Taniguchi, N., See Ohno, H.; Suzuki, K.
- Taniguchi, T.
—; Regulation of the interferon system and immune responses by the IRF family transcription factors, A114
- Tanira, M. O. M.
—; Simsek, M.; Al-Baloushi, K. A.; Al-Barwani, H. S.; Lawatia, K. M.; Bayoumi, R. A. L.
A reliable detection of the T³⁴¹C mutation in human N-acetyltransferase gene using a new *Nco* I-RFLP method together with a complementary *Dde* I-RFLP method, A365
- Tanizawa, K., See Koyanagi, T.
- Tanokura, M.
—; Iwasaki, W.; Sasaki, H.; Nakamura, A.; Kohama, K.
Crystal structure of the calcium-binding protein (CBP40) specific to plasmodia of *Physarum polycephalum*, A423
- Tanuguchi, H. H., See Tolezano, J. E.
- Tanuma, S.
—; Shiokawa, D.
Activation mechanism of apoptotic DNase gamma, A384
- Tao, Y., See Bo, N.
- Tarakçioğlu, M., See Bozkurt, A. I.
- Taran, N.
—; Okanenko, A.; Musienko, N.
Sulpholipid reflects plant resistance to stress-factor action, 922
- Tarchevsky, I. A.
—; Karimova, F. G.; Grechkin, A. N.; Moukhametchina, N. U.
Influence of (9Z)-12-hydroxy-9-dodecenoic acid and methyl jasmonate on plant protein phosphorylation, 870
- Tari, L. W., See Weselake, R. J.
- Tassaneeyakul, W., See Yongvanit, P.
- Tate, L. A.
—; Chipman, J. K.; Minchin, S. D.
Reporter gene assay for studying regulation of connexin 32 gene expression, A169
- Tatematsu, K., See Koyanagi, T.
- Tatnell, P., See Whittaker, M.

- Taton, M., *See* Rahier, A.
Tatsumi, K., *See* Tanaka, Y.
Taub, D., *See* Richardson, V. J.
Taverner, C., *See* Cook, S. J.
Taylor, A., *See* Kedzierska, S.
Taylor, A., *See* Kuczynska-Wisnik, D.
Taylor, A., *See* Matuszewska, E.
Taylor, C., *See* Birkett, S. D.; Thompson, J.
Taylor, D. C., *See* Katavic, V.
Taylor, E. W., *See* McFarland, S. M.
Taylor, G., *See* Usher, L. R.
Taylor, I. W., *See* Haye, H. R.
Taylor, K. E., *See* Modarressi, M. H.
Taylor, K. M., *See* Morgan, H. E.
—; Morgan, H. E.; Nicholson, R. I.
LIV-1 breast cancer protein belongs to a new family of histidine-rich membrane proteins with potential to control intracellular zinc, A394
Taylor, K. N.
—; Mishra, N. C.
Characterization of PCNA from Chinese hamster ovary cells and aphidicolin resistant CHO cells, A252
Taylor, M. S., *See* Millar, J. K.
—; Devon, R. S.; Millar, J. K.; Anderson, S.; Christie, S.; Muir, W. J.; Blackwood, D. H.; Porteous, D. J.
Comparative genomic analysis of a chromosomal breakpoint region implicated in schizophrenia, A303
Taylor, S., *See* Gonsalvez, I. S.; Hollingsworth, E. J.
Taylor, S. J., *See* Gonsalvez, I. S.
Taylor, V.
—; Wong, M.; Olsen, S.; Felcher, J.; Shah, K.; Shokat, K.; Stokoe, D.
Identification of novel substrates and a protein inhibitor of phosphoinositide-dependent kinase-1, A283
Taylor, W.
—; Alignment using structure, A23
Taylor, W. R.
—; Searching for the ideal forms of proteins, 264
Tchimocho, A. S., *See* Mittenberg, A. G.
Teakle, G. R.
—; Kop, E. P.; Smith, L. B.; Ryder, C. D.; McClenaghan, E. R.; King, G. J.
Molecular genetic regulation of early floral development in *Brassica oleracea*, A243
Teasdale, R. D., *See* van Vliet, C.
Tebogo, O. M.
—; Richardson, V.; Banoub, J.
Separation and characterization of saponins from an extract of *Quillaja saponaria* Molina: new immunoadjuvants, A204
Tejedor, M. C., *See* Olmos, G.
Tekwani, B. L., *See* Singh, R. L.
Tell, G., *See* Marsich, E.
Telles, S., *See* Ajami-Henriquez, D.
Temple, G., *See* Gower, N. J. D.
Tepper, A. D.
—; Ruurs, P.; Borst, J.; van Blitterswijk, W. J.
Sphingomyelin hydrolysis to ceramide during the execution phase of apoptosis results from phospholipid scrambling and alters cell surface morphology, A396
Terada, H., *See* Shinohara, Y.
Terakawa, Y., *See* Sugino, H.
Teramachi, S., *See* Imagawa, T.
Terashima, M., *See* Hara, N.; Nabika, T.; Shingu, T.; Yamada, K.
—; Hara, N.; Yamada, K.; Osago, H.; Shimoyama, M.; Tsuchiya, M.
Purification, characterization and molecular cloning of a novel glycosylphosphatidylinositol-anchored ADP-ribosyltransferase in chicken lung, A321
Terekhina, N. A., *See* Petrovich, Y. A.
Ter Kulle, B.
—; Snoep, J.; Van Spanning, R. J.; Westerhoff, H. V.
Cellular bioinformatics: there's more after the transcriptome, A149
Terp, N.
—; Brandt, A.
Lipoxygenases in early *Brassica napus* germination, 832
Terra, W. R., *See* Cristofolletti, P. T.; Genta, F. A.; Marana, S. R.
Terrasse, C., *See* Gontier, E.
Terry, R. S., *See* Duncanson, P.
—; Duncanson, P.; Smith, J. E.; Hide, G.
MGE-PCR: a novel approach to *Toxoplasma* epidemiology, A485
Terstappen, G. C., *See* Sala, C. F.
Terzioğlu, E., *See* Aydın, H. H.
Teshima, R., *See* Okunuki, H.; Sakushima, J.
Teshima, R.
—; Onose, J.; Saito, Y.; Ikebuchi, H.; Kitani, S.; Sawada, J.
Casein kinase II-like ectokinase activity on RBL-2H3 cells, A433
Testet, E., *See* Akermoun, M.
Tewari, D. S., *See* Tewari, M.
Tewari, M.
—; Hamid, O. A.; Uematsu, S.; Tuncay, O. C.; Rams, T. E.; Tewari, D. S.
Stat3/p65 heterodimer: potential role in regulation of MMP-1 inhibitor gene in gingival fibroblasts, A162
Thakur, A. R., *See* Bandyopadhyay, D.
Thangavelu, M., *See* Brown, V. M. D.
Thauer, R.
—; Catalytic mechanism of microbial methane formation, A130
Theis, S.
—; Doering, F.; Daniel, H.
A random-mutagenesis approach to get insight into structure-function relationships of the human intestinal peptide transporter by using the yeast *Pichia pastoris*, A395
Thelander, L., *See* Chabes, A.; Hofslagare, A. L.
Thelen, J. J.
—; Mekhedov, S.; Ohlrogge, J. B.
Biotin carboxyl carrier protein isoforms in Brassicaceae oilseeds, 595
Theodorou, V., *See* Kostelidou, K.
Theurkauf, W.
—; Replication checkpoint control of embryonic development, A130
Thia-Toong, T.-L., *See* Enoru, J.
Th'ng, J.
—; Derjuga, A.; Crosato, M.; Nishioka, W.; Crissman, H. A.; Wright, P.
Cell cycle characterization of butyrate-resistant HELA cells, A370
Thomaeus, S., *See* Singh, S.
Thomas, C. D., *See* Smith, M. C. A.
Thomas, C. M., *See* Bingle, L. E. H.
Thomas, G.
—; Mullins, J.; Merrick, M.
Membrane topology of the Mep/Amt family of ammonium transport proteins, A94, A393
Thomas, G. M. H., *See* Sadek, O.
Thomas, J., *See* Baker, A.
Thomas, N., *See* Beher, D.
Thomas, R., *See* Young, N. M.
Thomas, S., *See* Brightman, F. A.
Thomas, T. O.
—; Gilchrist, A.; Li, A.; Vanhauwe, J. F.; Voyno-Yascenetskaya, T. A.; Tiruppathi, C.; Hamm, H. E.
Systematic study of dominant negative G α C-terminal minigenes delineate G-protein pathways in thrombin-mediated responses of endothelial cells, A470
Thomas, W. M., *See* Jethwa, V. K.
Thomasset, B., *See* Gontier, E.
Thompson, A. Y., *See* Spiro, R. C.
Thompson, G. A., Jr., *See* Darjania, L.
Thompson, J.
—; Taylor, C.; Wang, T.-W.
Altered membrane lipase expression delays leaf senescence, 775
Thompson, M. G., *See* Benitez, J.
Thompson, S. L.
—; Manning, F. C. R.; McColl, S. M.
Mechanisms of chromium toxicity in cyanobacteria, A149
—; McColl, S. M.; Manning, F. C. R.
Detection and quantitation of chromium induced DNA damage using PCR, A169
Thornton, J.
—; Evolution of enzyme structure and function, A53
Thornton, J. M., *See* Pearl, F.
Thorpe, J. R., *See* Pandya, M. J.
Threadgill, M. D., *See* Naughton, D. P.
Thurmond, J. M., *See* Das, T.
Tibbs, V. C., *See* Ratcliffe, C. F.
Tigyi, J., *See* Fábíán, Zs.
Tilley, A., *See* Hide, G.
—; Hide, G.
MGE-PCR: a novel approach to Trypanosome epidemiology, A485
Tilton, G.
—; Shockey, J.; Browse, J.
Two families of acyl-CoA thioesterases in *Arabidopsis*, 946
Timms, M., *See* Hendriks, E.
—; Matthews, K. R.
Mitochondrial import and developmental stage-regulation of cytochrome oxidase VI in African trypanosomes, A485
Timonen, T., *See* Matikainen, S.
Timpl, T.
—; Collagen-derived inhibitors of angiogenesis, A108
Tipnis, S. R.
—; Christie, G.; Turner, A. J.; Hooper, N. M.
A novel human homologue of angiotensin-converting enzyme, A322
—; Hooper, N. M.; Turner, A. J.
Identification and characterization of a novel human zinc metalloprotease with homology with angiotensin-converting enzyme, A81
Tipper, J., *See* Trotter, J. A.
Tiruppathi, C., *See* Thomas, T. O.
Titanji, V. P. K.
—; Ghogomu, S. M.; Akufongwe, P. F.; Newo, A.; Souopgui, J.
Molecular cloning and characterization of four new antigens of *Onchocerca volvulus*, A234
Titball, R. W., *See* Karlyshev, A. V.; Skinner, M. A.
Titova, A. V., *See* Korobov, V. P.
—; Korobov, V. P.; Poludova, T. V.; Lemkina, L. M.
Alteration in plasmid spectrum and antibiotic sensitivity in several *Staphylococcus* strains under the formation of resistance to cadmium ions, A198
Tjian, T.
—; Dissecting the macromolecular machine that decodes the genome, A105

- Tleulieva, R.**, See Slivinsky, G. G.
- To, K.-Y.**
—; Analysis of promoter activity for the maize pyruvate, orthophosphate dikinase gene, A243
- To, R.**, See Young, N. M.
- Tobe, M.**, See Kuroki, Y.
- Toda, T.**, See Watanabe, M.
- Todd, A. E.**, See Pearl, F.
- Todd, D.**, See Cook, S. J.
- Tokatlidis, K.**
—; Membrane protein import in yeast mitochondria, A58
—; Vial, S.; Luciano, P.; Vergnolle, M.; Clémence, S.
Membrane protein import in yeast mitochondria, 495
- Tokmakov, A. A.**, See Sato, K.-I.
- ; Sato, K.-I.; Iwasaki, T.; Owada, K.; Fukami, Y.
Protein-tyrosine phosphorylation in *Xenopus* egg cycling extracts, A433
- Tokullugil, A.**
—; Serdar, Z.; Dirican, M.; Sarandöl, E.; Yeşilbursa, D.; Serdar, A.
Enhanced susceptibility to *in vitro* oxidation of apolipoprotein B containing lipoproteins and antioxidant levels in patients with coronary artery disease, A94
- Tolezano, J. E.**
—; Taniguchi, H. H.; Barbosa, J. A. R.; Bisugo, M. C.; Araujo, M. F. L.; Barbosa, S. C. F.; Stempluk, V. A.; Ferreira, L. H.; Petronilha, C.; Floeter-Winter, L. M.; Shaw, J. J.
American cutaneous leishmaniasis in São Paulo, Brazil: preliminary results incriminating horses as hosts of *Leishmania (Viannia) braziliensis*, A485
—; Taniguchi, H. H.; Barbosa, J. A. R.; Bisugo, M. C.; Araujo, M. F. L.; Barbosa, S. C. F.; Stempluk, V. A.; Ferreira, L. H.; Petronilha, C.; Floeter-Winter, L. M.; Shaw, J. J.
American cutaneous leishmaniasis in São Paulo State, Brazil: preliminary results incriminating horses as hosts of *Leishmania (Viannia) braziliensis*, A155
- Tomczyk, N. H.**
—; Webster, S.; Campopiano, D.
Overexpression and characterization of the *bioH* gene product in *E. coli*, A333
- Tomita, K.**, See Fey, J.
- Tomkins, P. T.**, See Devery, S.; Devery, S. M.; Doyle, V.; Horan, I.; Lane, E.
- Tomley, F.**, See Jean, L.
- Tomley, F. M.**, See Bumstead, J. M.
—; Billington, K. J.; Bumstead, J. M.
Cloning and characterisation of the *Eimeria tenella* microneme protein EtMIC3, A486
- Tomlinson, J.**, See Soubeyrand, S.
- Tomomura, A.**, See Yamada, H.
—; Yamada, H.; Inaba, A.; Fujimoto, K.; Katoh, S.
Hypocalcemic factor, caldecrin, suppresses bone resorption by intramolecular domains, A322
- Tompa, P.**, See Tusnády, G. E.
- Tong, C.**, See Leung, T. W. C.
- Tonge, D. W.**, See Haye, H. R.
- Tonge, R.**, See Chevalier, S.
- Tonini, R.**, See Warton, K.
- Tönisson, N.**, See Lushnikov, A.
- Toohy, B.**, See Poetter, K.
- Toonkool, P.**
—; Morris, M. B.; Weiss, A. S.
Sedimentation equilibrium analysis of recombinant human tropoelastin isoform, A470
- Topcu, M.**, See Sinici, I.
- Topilko, P.**, See Garratt, A. N.
- Topoglidis, E.**
—; Gilardi, G.; Cass, A. E. G.; Durrant, J. R.
Protein adsorption on nanocrystalline TiO₂ films: a novel immobilization strategy for bioelectrochemistry and bioanalytical devices, A44
- Torda, A. E.**, See Dosztányi, Zs.
- Torda, A. E.**, See Procter, J.
- Torimitsu, K.**
—; Furukawa, Y.; Kasai, N.; Jimbo, Y.
Modulation of neural activity induced by neurotrophins in cultured rat cortex and hippocampal neurons, A346
- Tormanen, C. D.**
—; Comparison of the inhibition of rat liver and kidney arginase by metal ions, A322
- Töröcsik, B.**, See Fábrián, Zs.
- Torres, B. B.**, See Yokaichiya, D. K.
- Torres-Márquez, M. E.**, See Díaz-Mireles, E.
- Totani, M.**, See Hosokawa, Y.
- Towson, P. D.**, See Wilkes, T. M.
- Toyama, M. H.**, See Di Ciero, L.
- Toyoda, M.**, See Okunuki, H.; Sakushima, J.
- Toyoda, Y.**
—; Ito, Y.; Tsuchida, A.; Tanigawa, K.; Miwa, I.
Impairment of glucokinase translocation in cultured hepatocytes from Goto0KJakizaki rats, an animal model of Type 2 diabetes, A198
- Tramontano, F.**, See Atorino, L.
- Travers, A.**, See Negri, R.
- Travers, A. A.**
—; Nucleosome asymmetry and chromatin organization, A62
- Trchounian, A.**, See Bagramyan, K.; Zakharyan, E.
- Treigyte, G.**
—; Navakauskiene, R.; Kulyte, A.; Gineitis, A.; Magnusson, K.-E.
Tyrosine phosphorylation of cytosolic and nuclear proteins in HL60 cells undergoing apoptosis, A379
- Treiman, M.**, See Caspersen, C.
- Trench, B.**
—; Science in the popular media: an impossible fit?, A1
- Tretjakovs, P.**
—; Kalnins, U.; Dabina, I.; Dinne, I.; Erglis, A.; Kumsars, I.; Jurka, A.; Pirags, V.
Relationship between nitric oxide production and arachidonic acid metabolism in platelet membranes of coronary artery disease patients with and without diabetes, A162
- Trif, M.**, See Costin, G.-E.
- Triki, S.**
—; Ben Hamida, J.; Mazliak, P.
Diacylglycerol acyltransferase in maturing sunflower seeds, 689
- Trinh, C.**, See Bingham, R. J.; Horn, W. T.
- Trinman, B. J.**, See Syed, S. H.
- Trommer, W. E.**, See De, S.
- Trotter, J. A.**
—; Tipper, J.; Lyons-Levy, G.; Chino, K.; Heuer, A. H.; Liu, Z.; Mrksich, M.; Hodneland, C.; Dillmore, W. S.; Koob, T. J.; Koob-Emunds, M. M.; Kadler, K.; Holmes, D.
Towards a fibrous composite with dynamically controlled stiffness: lessons from echinoderms, 357
—; Towards a fibrous composite with dynamically controlled stiffness: how do urchins do it?, A55
- Trowbridge, A. D.**, See Richmond, S. A.
- Trüb, T.**, See Jaschinski, F.
- Trubiani, O.**
—; De Fazio, P.; Di Primio, R.
Melatonin induces cell growth suppression and programmed cell death in human lymphoid cells, A374
- Trumbeckaite, S.**, See Gellerich, F. N.
- Trzeciak, W. H.**, See Jagodzinski, P. P.; Kobiela, A.
- Tsai, I.-H.**
—; Wang, Y.-M.; Wang, S.-R.; Tu, A. T.
Complete amino acid sequences and characterization of the serine protease variants from *Deinagkistrodon acutus* and *Crotalus atrox* venoms, A323
- Tsai, R.-T.**
—; Chen, D. C.; Hu, N.-T.
Inhibition of the type II secretion apparatus of *Xanthomonas campestris* pv. *campestris* by overproduced XpsL/XpsM complex, A355
- Tsai, Z.-C.**
—; Wang, A.-Y.
Purification and characterization of a Mn²⁺-dependent sucrose synthase kinase from the etiolated rice seedlings, A407
- Tsang, A.**, See Leung, T. W. C.
- Tsang, J. S. H.**, See Sze, J.; Wong, H. P. S.
- Tsao, F. H.C.**, See Das, S. K.
- Tschudi, C.**
—; New turns in Trypanosome RNA metabolism, A472
- Tsikaris, V.**, See Kostelidou, K.
- Tsoy, I. G.**, See Bersimbaev, R. I.
- Tsubouchi, H.**, See Moriwaki, S.
- Tsuchida, A.**, See Toyoda, Y.
- Tsuchiya, M.**, See Hara, N.; Shingu, T.; Terashima, M.; Yamada, K.
- Tsuda, M.**, See Inagaki, K.; Takada, T.
- Tsuge, H.**, See Nagamune, H.; Ohkura, K.
- Tsui, Z.-C.**, See Li, Z.-Y.
- Tsuji, T.**, See Ohgi, K.
- Tsujita, J.**, See Hori, K.
- Tsukamoto, K.**
—; Obama, T.
The structure, the active site function and the membrane-binding mode of *Bacillus cereus* sphingomyelinase, A334
- Tsukamoto, S.**, See Karasaki, Y.
- Tsukihara, T.**, See Yoshikawa, S.
- Tsuisui, K.**, See Satake, H.
- Tsuzuki, M.**, See Sato, N.
- Tu, A. T.**, See Tsai, I.-H.
- Tucker, S. J.**, See McFarlane, S. M.
- Tuddenham, E. G. D.**, See Davidson, C. J.
- Tudek, B.**, See Plochocka, D.
- Tudek, B.**, See Speina, E.
- Tuena de Gómez-Puyou, M.**, See Cabrera, N.; Ramírez-Silva, L.
- Tuite, M. F.**, See O'Sullivan, J. M.; Parham, S. N.
- Tumanyan, V. G.**, See Berezovsky, I. N.
- Tuncay, O. C.**, See Tewari, M.
- Tuohimaa, P.**, See Lyakhovich, A.
- Turakulov, Y. K. H.**, See Shamansurova, Z. M.
- Turk, M.**
—; Mejanelle, L.

- Sentjurc, M.; Grimalt, J. O.; Gunde-Cimerman, N.; Plemenitaš, A. Salt-induced changes in membrane lipid composition and fluidity in halophilic black yeasts, A470
- Turnbull, A., See Slabas, A. R.
- Turnbull, A. P., See Hayman, M. W.
- Turnbull, S.
- ; Moore, S.; Twyman, L. J.; Allsop, D.
- Benzofuran derivatives as inhibitors of Alzheimer β -amyloid, A307
- Turner, A. J., See Barnes, K.; Canet-Aviles, R. M.; Cottrell, G. S.; Hooper, N. M.; Lindley, C. H.; Nalivaeva, N. N.; Parkin, E. T.; Tipnis, S. R.
- Turner, A. J., See Tipnis, S. R.
- Turner, B. M., See Barlow, A. L.; White, D. A.
- Turner, N. A.
- ; Ball, S. G.; Balmforth, A. J.
- Angiotensin II activates extracellular-signal-regulated kinase (ERK-1/2) via two distinct signalling pathways in HEK293-angiotensin_{1A} receptor(AT_{1A}R)cells, A80
- Tusnády, G. E.
- ; Tompa, P.; Cserzo, M.; Simon, I.
- Prion protein: evolution caught en route?, A413
- Tuteja, N., See Khanna, N.
- Twine, S. M.
- ; Gore, M.G.; Lee, A. G.; Moreton, P.; Fish, B. C.; East, J. M.
- Characterisation of warfarin binding to domain fragments to recombinant human albumin, A259
- Twist, L., See Hughes, P.
- Twyman, L. J., See Turnbull, S.
- Tzartos, S. J., See Kostelidou, K.
- Tzimagiorgis, G., See Kotoula, V.
- Uadia, P. O., See Abigor, R. D.
- Uchide, N., See Ohyama, K.
- Uematsu, S., See Tewari, M.
- Ueno, A., See Nakashima, K.
- Uesugi-Hayakawa, R., See Yoshinaga, E.
- ; Yoshinaga, E.; Nishiwaki, C.; Sumiishi, A.; Yamaguchi, K.; Matsumura, G.; Sakai, T.; Wakizaka, A.
- Bleomycin-induced changes in K-ras oncogene expression level in mouse retina analyzed by an *in situ* RT-PCR technique, A238
- Ueta, N., See Maeba, R.
- Ugulava, N. B.
- ; Gibney, B. R.; Jarrett, J. T.
- Iron-sulphur cluster interconversions in biotin synthase: dissociation and reassociation of iron is required for conversion of [2Fe-2S] to [4Fe-4S] clusters, A471
- Uhlén, M.
- ; Combinatorial protein chemistry: new proteins with selective binding, A125
- Uings, I., See Cooke, E.
- Ukena, K., See Satake, H.
- Ulanska, J., See Smolarz, B.
- Ulbrich, P., See Strnad, H.
- Ulukaya, E.
- ; Okona-Mensah, K. B.; Wood, E. J.
- Mechanism of the apoptosis-inducing effect of fenretinide: cytochrome *c* release from mitochondria into the cytosol, A92
- Umeza, H., See Kanagawa, M.
- Unniraman, S.
- ; Nagaraja, V.
- Regulation of DNA gyrase genes in diverse bacteria, A288
- Untergasser, G., See Rumpold, H.
- ; Rumpold, H.; Plas, E.; Reiter, W.; Berger, P.
- Low molecular weight factors of human seminal plasma activate adenylyl cyclase and induce caspase 3 independent apoptosis in prostatic epithelial cells by decreasing mitochondrial potential and bcl2/bax ratio, A384
- Upton, A.
- ; Kawamura, A.; Victor, T.; Payton, M.; Sandy, J.; Sim, E.
- Polymorphism of mycobacterial arylamine *N*-acetyltransferases may lead to structural change, A323
- ; Sim, E.
- Presence of an arylamine *N*-acetyltransferase gene homologue and *N*-acetylation activity in domestic cattle, A43
- Upton, A. M., See Sandy, J.
- Urata, Y., See Ihara, Y.
- Urbanska, A.
- ; Leszczynski, B.; Matok, H.; Dixon, A. F. G.
- Xenobiotic-detoxifying enzymes of insects, A440
- Urnov, F. D., See Wolffe, A. P.
- Uronen, H.
- ; Williams, A. J.; Dixon, G.; Andersen, S. R.; van der Ley, P.; van Deuren, M.; Callard, R. E.; Klein, N.
- Gram negative bacteria induce proinflammatory cytokine production by monocytes in the absence of lipopolysaccharide (LPS), A490
- Usenko, O. A.
- ; Podorvanov, V. V.; Onoiko, O. B.; Zolotareva, E. K.
- Regulation of proton transfer through CF₀CF₁ by ATP under photophosphorylation, A190
- Usher, L. R.
- ; Lawson, R. A.; Taylor, G.; Whyte, M. K. B.
- In vitro* modulation of neutrophil apoptosis by Pseudomonas toxins, A384
- Ushio, K., See Ishizuka, M.
- Uskokovic, A.
- ; Poznanovic, G.
- Partitioning of C/EBP β between different nuclear matrix compartments, A289
- Utsumi, K., See Horton, A. A.
- Utsumi, K.
- ; Kanno, T.; Utsumi, T.; Furuno, T.; Yoshioka, T.; Horton, A.
- Role of L-carnitine in membrane permeability transition and apoptosis, A441
- Utsumi, T., See Utsumi, K.
- Utsumi, T.
- ; Sato, M.; Ishisaka, R.
- Analysis of N-terminal sequence requirements for protein N-myristoylation and protein N-acetylation by *in vitro* translation system, A355
- Vaganay, E., See Doublet, P.
- Vageeshbabu, H. S.
- ; Kirti, P. B.; Chopra, V. L.
- The δ 9-stearoyl ACP desaturase from *Brassica juncea*: cloning of the *Bifab2* gene and characterization, A209
- Vagenina, I. V., See Ovchinnikova, T. V.
- Vagonis, A.
- ; Razumas, V.; Niaura, G.; Talaiyte, Z.
- The effects of cAMP and dibutyl cAMP on the structure of monooleine-water cubic liquid-crystalline phase, A284
- Vaithanomsat, P., See Saunders, J. E.
- Vakalounakis, D. J., See Fragkiadakis, G. A.
- Valdenaire, O.
- ; Schweizer, A.
- Endothelin-converting enzyme-like I (ECE1;XCE): a putative metallopeptidase crucially involved in the nervous control of respiration, A26
- Valdenaire, O.
- ; XCE (ECE1): a central-nervous-system metallopeptidase related to endothelin-converting enzyme-1 (ECE-1), A59
- Valentin, E.
- ; The expanding family of secreted phospholipases A₂: diversity of enzymes for diverse functions?, A453
- Valentova, O., See Novotna, Z.
- Valenzuela, S., See Warton, K.
- Valks, D. M.
- ; Clerk, A.
- Regulation of Bcl-xl by oxidative stress and phorbol esters in cardiac myocytes, A384
- Valle-Mendiola, A., See Soto-Cruz, I.
- Vamesu, S., See Aschie, I.
- van Berkel, W. J. H., See van den Heuvel, R. H. H.
- van Blitterswijk, W. J., See Tepper, A. D.
- Vance, D. E., See Shields, D. J.
- van den Berg, C. W., See Hiscox, S.
- van den Burg, J.
- ; Blom, D.; Breek, K.; Speijer, D.; Sloof, P.; Benne, R.
- Molecular cloning and characterization of two guide RNA binding proteins from *Crithidia fasciculata* mitochondria, A484
- van den Heuvel, R. H. H.
- ; Fraaije, M. W.; Mattevi, A.; van Berkel, W. J. H.
- Inverted stereospecificity of vanillyl-alcohol oxidase, A263
- van der Ley, P., See Dixon, G. L. J.; Uronen, H.
- van der Linden, K., See Verwoert, I.
- van der Ven, P. F. M., See Fuerst, D. O.
- van der Westhuizen, F. H., See Potgieter, H. C.
- van Deuren, M., See Uronen, H.
- van Deursen, F. J., See Hendriks, E.
- ; Matthews, K. R.
- Analysis of the proteome during differentiation events in the African trypanosome, A486
- van Drunen, C. M., See Barlow, A. L.
- van Grunsven, E. G., See Wanders, R. J. A.
- Vanhauwe, J. F., See Thomas, T. O.
- van Heel, M.
- ; Ribosome structure and function by single-particle cryo-EM, A109
- van Hellemond, J. J., See Hammarton, T. C.
- Vanhoudt, J., See Abgar, S.
- Vanin, A. F., See Lobysheva, I. I.
- van Leeuwen, I. M. M.
- ; The mouse-to-human problem: a model-based approach, A226
- Van Leuven, F.
- ; Modelling Alzheimer's disease in multiple transgenic mice: is it possible?, A18
- Vanoni, M.
- ; Modular architecture of glutamate synthase: a complex iron-sulphur flavoprotein, A123
- Van Schaftingen, E., See Veiga-da-Cunha, M.

- Van Spanning, R. J.**, See Ter Kuile, B.
- van Tiel, C. M.**
—; Paasman, M. A.; Westerman, J.; Snoek, G. T.; Wirtz, K. W. A.
Recombinant mouse phosphatidylinositol transfer protein β has a major and a minor site of phosphorylation, A360
- van Vliet, C.**
—; Kjer-Nielsen, L.; Teasdale, R. D.; Callaghan, J.; Gooley, P. R.; Gleeson, P. A.
Characterization of a novel Golgi localization domain, A471
- van Voorst, F.**, See Janssen, M. J. F. W.
- Vargas-Suárez, M.**, See Ayala-Ochoa, A.
- Várkonyi, Z.**
—; Zsiros, O.; Farkas, T.; Garab, G.; Gombos, Z.
The tolerance of cyanobacterium *Cylindrospermopsis raciborskii* to low-temperature photo-inhibition affected by the induction of polyunsaturated fatty acid synthesis, 892
- Varndell, I. M.**, See Pollard, C. L.
- Vasilieva, S. V.**, See Lobysheva, I. I.
- Vasilyeva, O. V.**, See Ovchinnikova, T. V.
- Vasisht, S.**, See Chhabra, S.; Luthra, K.
- Vass, S.**, See Cobbe, N.
- Vassella, E.**, See Hassan, P.
- Vassilian, A.**, See Bagramyan, K.
- Vassiliou, S.**, See Dive, V.
- Vasudha, S.**
—; Choudhary, A.; Komath, S. S.; Rajagopal, K.; Garg, N.; Yadav, M.; Mande, S.; Sahni, G.
Streptokinase: direct evidence for β -domain's role in substrate plasminogen (PG) interaction, A469
- Vasunina, E. A.**, See Ishchenko, A. A.
- Vaughan, P. F. T.**, See Canet-Aviles, R. M.
- Vaughan, R. D.**
—; O'Sullivan, C. K.; Guilbault, G. G.
Piezoelectric immunosensor for the detection of common food pathogens in dairy samples, A44
- Vaughan, S.**
—; Attwood, T.; Navarro, M.; Scott, V.; McKean, P.; Baines, A.; Gull, K.
Tubulins in parasite protozoa: epsilon and zeta tubulin, A218
- Vaz, D.**, See Quintas, A.
- Vazeux, G.**, See Iturriz, X.; Reaux, A.
- Vazquez, E.**, See Caballero, F.
- Vazquez-Laslop, N.**
—; Zheleznova, E. E.; Markham, P. N.; Brennan, R. G.; Neyfakh, A. A.
Recognition of multiple drugs by a single protein: a trivial solution of an old paradox, 517
- Vedralova, J.**, See Kleibl, Z.
- Veeranna, P. S.**
—; Sharma, M.; Sihag, R. K.; Amin, N.; Kulkarni, A. B.; Grant, P.; Pant, H. C.
Cyclin dependent kinase-5 is a negative regulator of the MAP kinase pathway, A433
- Veiga-da-Cunha, M.**
—; Van Schaftingen, E.
Study of the glucokinase regulatory protein by site-directed mutagenesis, A198
- Veissizadeh, M.**, See Minai-Tehrani, D.
- Velansky, P. V.**, See Sanina, N. M.
- Velasco, M. L.**
—; Ruiz, L.; Sánchez, M. G.; Díaz-Laviada, I.
 Δ^9 Tetrahydrocannabinol increases nerve growth factor production by prostate PC-3 cells: involvement of CB₁ cannabinoid receptor, A339
- Vellodi, A.**, See Winchester, B.
- Venkatesh, B.**
—; Fugu: A compact vertebrate reference genome, A102
- Venter, H.**
—; Herbert, R. B.; Spooner, P. J. R.; Watts, A.; Homans, S. W.; Ashcroft, A. E.; Henderson, P. J. F.
Novel applications of physical techniques to investigate the structure of the galactose H⁺-symporter (GalP), A89
- Venter, J. C.**
—; Decoding the human genome, A97
- Verbree, B.**, See Verwoert, I.
- Vercesi, A. E.**, See Borecky, J.
- Verdier, F.**
—; Walrafen, P.; Hubert, N.; Chretien, S.; Gisselbrecht, S.; Lacombe, C.; Mayeux, P.
Proteasomes regulate the duration of erythropoietin receptor activation by controlling down-regulation of cell surface receptors, A284
- Vereshchagin, A. G.**
—; Zhukov, A. V.
Effect of fungal infection on the composition of acyl lipids in wheat seedlings, 920
- Vergara, A.**, See Lana, I.
- Verger, R.**, See Beisson, F.
- Vergès, P.**, See Fink, M.
- Vergnolle, M.**, See Tokatlidis, K.
- Verma, A. K.**, See Gupta, S.
- Vernon, R. G.**
—; Adipocyte studies: systems for investigating effects of growth hormone and other chronically acting hormones, A9, 126
- Verschoor, J. A.**, See Korf, J. E.
- Vershinina, O. A.**
—; Morozova, O. V.; Vershinina, V. I.; Leshchinskaya, I. B.; Znamenskaya, L. V.
Expression of *B. intermedius*, *B. pumilus* and *B. thuringiensis* phosphate-starvation inducible genes for ribonucleases in *B. subtilis*, A238
- Vershinina, V. I.**, See Vershinina, O. A.
- Vertigan, H. L.**, See Brocklehurst, K. J.
- Verwoert, I.**
—; Meller-Harel, Y.; van der Linden, K.; Berbee, B.; Koes, R.; Stuitje, A.
The molecular basis of the high linoleic acid content in *Petunia* seed oil: analysis of a seed-specific linoleic acid mutant, 631
- Vessillier, S.**
—; Bernillon, J.; Saulnier, J.; Wallach, J.
Pseudomonas aeruginosa LasA specificity, using tropoelastin pentapeptides as substrates, A323
- Vial, S.**, See Tokatlidis, K.
- Viarengo, A.**, See Panfoli, I.
- Vickers, E. R.**
—; Sharrocks, A. D.
Identification of target genes for the transcription factor ELK-1 and its role in cell fate determination, A243
- Victor, T.**, See Upton, A.
- Vidakovic, M.**
—; Cvetkovic, I.; Poznanovic, G.
Increased association of C/EBP β with the rat hepatocyte nuclear matrix during the acute phase response, A289
- Vidal, A.**, See Fallarero, A.
- Vidal, J.**, See Coursol, S.
- Vidal, M.**, See Finley, J. B.
- Vielhaber, S.**
—; Kudin, A.; Schröder, R.; Elger, C. E.; Kunz, W. S.
Muscle fibres: applications for the study of the metabolic consequences of enzyme deficiencies in skeletal muscle, 159
- Viklund, F.**
—; Hult, K.
Lipase catalyzed synthesis of ascorbyl fatty acid esters at low water activity, A323
- Vikström, S.**, See Li, L.
- Vila, R.**
—; Ponte, I.; Collado, M.; Arrondo, J. L.; Jiménez, M. A.; Rico, M.; Suau, P.
Structure and DNA interaction of a helix-turn motif of the C-terminal domain of histone H1^o, A253
- Vilchis-Landeros, M. M.**
—; Montiel, J. L.; Mendoza, V.; Lopez-Casillas, F.
Soluble betaglycan: a natural antagonist of the transforming growth factor beta, A339
- Villalain, J.**, See Regente, M. C.
- Vince, G. S.**
—; Johnson, P. M.
Leucocyte populations and cytokine regulation in human uteroplacental tissues, 191
- Vincent, C.**, See Doublet, P.
- Vincent, J. B.**
—; Herbrick, J.-A.; Palmour, R.; Szatmari, P.; Gurling, H. M. D.; Bryson, S.; Roberts, W.; Scherer, S. W.
Identification and characterization of genes spanning translocation breakpoints on chromosome 7q31 in two patients with autistic disorder, A303
- Vinueta, J. E.**, See Salgado, F. J.
- Viola, R. E.**, See Bell, J. K.
- Vir, S.**, See Kaushik, N.
- Vishwanatha, J. K.**, See Rothermund, C. A.
- Visser, J.**, See Benčina, M.
- Visser, J.**, See Benčina, M.
- Visser, L.**, See Schulze, D. L. C.
- Vladimirova, N. M.**
—; Potapenko, N. A.; Ovchinnikova, T. V.
Physiological association of Na₂K-ATPase with cytoskeleton proteins in brain neuron cells, A395
- Vlasicova, K.**, See Sedo, A.
- Vlassov, A.**, See Nevinsky, G.
- Vlassov, V. V.**, See Bozhenok, L. N.
- Vo, H. S.**
—; Swieczewska, E.
Rab geranylgeranyltransferase in wheat seedlings, A360
- Vodovozova, E. L.**, See Zaitseva, L. G.
- Vogt, A.**, See Fast, B.
- Voiculescu, O.**, See Garratt, A. N.
- Voinea, FL.**, See Aschie, M.
- Volkova, I. V.**, See Mittenberg, A. G.
- Voltzel, T.**, See Prevot, D.
- von Agoston, D.**
—; Complexity of transcriptional control in neuropeptide gene expression, A60
- von Delft, F.**, See Pellegrini, L.
- von Heijne, G.**
—; Insertion of transmembrane helices into the ER membrane, A116
- von Wettstein-Knowles, P.**, See Arnvig McGuire, K.
—; Gotthardt Olsen, J.; Arnvig McGuire, K.; Larsen, S.
Molecular aspects of β -ketoacyl synthase (KAS) catalysis, 601
- Vorobjev, I. A.**, See Chernobelskaya, I. A.; Grigoriev, I. S.
- Voronin, A. P.**, See Goloudina, A. R.

- Voyno-Yasenetskaya, T. A., See Thomas, T. O.
- Vrbacky, M., See Bartosova, M.
- Vuorela, A., See Myllyharju, J.
- Vuorela, H., See Tammela, P.
- Wada, H., See Sato, N.
- Wada, Y., See Nakamura, N.; Sambongi, Y.
- Waddell, I. D., See Brocklehurst, K. J.
- Wade, J. T.
—; Busby, S. J. W.
Repression of the *Escherichia coli* *melR* promoter by MelR: evidence for a repression loop, A285
- Wagenknecht, T., See Sharma, M. R.
- Wagner, S. E.
—; Morse, M. A.; Lewis, A. P.; Baxter, G.; Sims, M. J.
Characterisation of TLR specific antibodies, A490
- Wain, H.
—; Bruford, E.; Duncanson, A.; Lovering, R.; Povey, S.
Gene symbols: making sense of the sequenced genome, A149
- Wainwright, B.J., See McGlenn, E. C.
- Wainwright, M., See Rice, L.
- Wait, R., See Yan, J.
- Wakatsuki, S., See Yao, M.
- Wakizaka, A., See Kuroki, Y.; Sakai, T.; Uesugi-Hayakawa, R.; Yoshinaga, E.
- Walker, B., See Johnson, J. A.
- Walker, C. E., See Newbold, R. J.
- Walker, D., See Gostick, D.; Gower, N. J. D.
- Walker, D. S., See Harrington, L. S.
- Walker, J.
—; Rotary mechanism of ATP synthesis, A97
- Walker, J. E.
—; The rotary mechanism of ATP synthesis, A1
- Wallace, A., See Prendergast, D. P.
- Wallace, B. A., See Booth, V. K.; Chugh, J.; Galbraith, T. P.
- Wallace, B. A., See Hanlon, M. R.
- Wallace, B. A., See Hanlon, M. R.; Orry, A. J. W.
- Wallace, C. J. A., See Black, K. M.; Blouin, C.
- Wallace, J., See Daman, O. A.
—; Harris, F.; Phoenix, D. A.
Classification of fusion-promoting peptides by use of DWIH and hydrophobic moment analysis, A148
- Wallace, J. C., See Lucic, M. R.; Surinya, K. H.
- Wallach, J., See Vessillier, S.
- Wallberg, A. E.
—; Flinn, E. M.; Gustafsson, J.-Å.; Wright, A. P. H.
Recruitment of chromatin remodelling factors during gene activation via the glucocorticoid receptor N-terminal domain, 410
- Waller, C. F., See Martens, U. M.
- Walmsley, A. R., See Bhattacharjee, H.; Watt, N. T.; Zeng, F.
—; Zeng, F.; Hooper, N. M.
C-terminal membrane anchorage is required for N-glycosylation of the prion protein, A80
- Determinants other than the CPI anchor target the prion protein to detergent-insoluble, glycosphingolipid-enriched membrane microdomains, A348
- Walrafen, P., See Verdier, F.
- Walsh, G., See Casey, A.
- Walsh, M.
—; Cotter, T. G.; O'Connor, R.
A plasma factor promotes erythrocyte survival in culture, A29
- Walsh, P. T.
—; O'Connor, R.
The insulin-like growth factor I receptor is up-regulated by CD28 stimulation and protects activated T cells from Fas killing, A29
- Walsh, V., See Gilkes, A. F.; Mills, K. I.
- Walshaw, J.
—; Woolfson, D. N.
Knobs-into-holes packing of α -helices: coiled coils and beyond, A423
- Walter, Z., See Majsterek, I.
- Walton, J., See Pike, A. C. W.
- Wanders, R. J. A., See Waterham, H. R.
—; Functions and dysfunctions of peroxisomes in lipid metabolism, A10
—; van Grunsven, E. G.; Jansen, G. A.
Lipid metabolism in peroxisomes: enzymology, functions and dysfunctions of the fatty acid α - and β -oxidation systems in humans, 141
- Wang, A., See Wang, D.
- Wang, A.-Y., See Huang, Y.-J.; Sayion, Y.; Tsai, Z.-C.
- Wang, A.-Yu., See Lin, C.-L.
- Wang, Ai.Y., See Huang, W.-C.
- Wang, B., See Nakajima, T.
- Wang, C., See Wang, X.
- Wang, C.-c., See Sun, X.-x.
- Wang, C.-Y.
—; Lei, H.-C.; Huang, C.-Y. F.; Zhang, Z.; Mukherjee, A. B.; Yuan, C.-J.
The stimulation of NF-IL6 and AP-2 by staurosporine in osteoblast-like cells, A244
- Wang, D.
—; Wang, A.; Liu, S.; Zhou, H.; Chenette, E.
MFIS: a high throughput technology for studying the ligand-receptor interaction, A337
- Wang, H.-H., See Wang, Z.-Q.
- Wang, H. Z., See Bo, N.; Jun, X.
- Wang, J.
—; Shannon, M. F.; Young, I. G.
Synergistic transactivation of the murine interleukin-5 promoter by transcription factors activator protein-1 (AP-1) and Ets1 in Th2 lymphocytes, A471
- Wang, M., See Holtman, W. L.
- Wang, S.-K., See Chen, C.-H.
- Wang, S.-R., See Tsai, I.-H.
- Wang, S. X.
—; Sui, S. f.
Conformational change of apolipoprotein H upon interaction with membranes, A424
- Wang, T.-W., See Thompson, J.
- Wang, T. Y., See Zhang, Y.
- Wang, W., See Nie, Y.
- Wang, W.-L., See Li, J.
- Wang, X.
—; Wang, C.; Sang, Y.; Zheng, L.; Qin, C.
Determining the functions of multiple phospholipase Ds in the stress response of *Arabidopsis*, 813
- Wang, X.-G., See McCrohan, O.
- Wang, X.-h., See Li, S.-q.
- Wang, X. T., See Au, S. W. N.
- Wang, X. Y., See Wilkes, T. M.
- Wang, Y., See Newton, D.; Wright, J. M.
- Wang, Y.-J.
—; Gregory, R. B.; Barritt, G. J.
Evidence that F-Actin and endoplasmic reticulum organisation in rat hepatocytes is regulated by the trimeric G-protein Gi2 and is involved in the activation of store-operated Ca^{2+} channels, A387
- Wang, Y.-M., See Tsai, I.-H.
- Wang, Z.-Q.
—; Wanga, Y.-H., Qian, W., Xie, Y., Wang, H.-H., Wu, J., Xia, Z.-X., Huang, Z.-X.
Is residue proline-40 essential for the protein structure, stability and functions of cytochrome b5?, A413
- Wanga, Y.-H., See Wang, Z.-Q.
- Wani, A. A., See Zhu, Q.
- Wani, G., See Zhu, Q.
- Wani, M. A., See Zhu, Q.
- Warchol, J., See Fik, E.
- Ward, A., See Henderson, P. J. F.; Hoyle, C. K.; Pos, K. M.
—; Palmer, S. L.; Hoyle, C. K.; Stoylova-McPhie, S.; Neyfakh, A. A.; Griffith, J. K.; Henderson, P. J. F.
Expression in *Escherichia coli*, purification and characterization of the *Bacillus subtilis* multidrug efflux protein, Bmr(His)₆, A89
- Ward, J. M.
—; Role of sucrose transporters in assimilate partitioning and phloem function, A57
- Ward, M., See Gostick, D.
- Ward, R. J.
—; de Oliveira, A. H. C.; Chioato, L.; Bortoletto, R. K.; Rosa, J. C.; Faça, V. M.; Green, L. J.
Mutagenesis of the active site region of brotrophostoxin-I, a Lys49-phospholipase A2 homologue, A395
- Warhurst, A., See O'Neill, C.
- Warhurst, G., See O'Neill, C.
- Warnecke, D. C., See Leipelt, M.
- Warren, M. J., See Newbold, R. J.; Raux, E. C.
- Warton, K.
—; Valenzuela, S.; Tonini, R.; Mazzanti, M.; Breit, S.
Intracellular ion channel NCC27 moves between a soluble and a transmembrane state, A471
- Wasfi, R. M., See Abdalla, E. M.
- Wasniewska, M., See Zablocki, K.
- Wasternack, C., See Weichert, H.
- Wasunna, C., See Carrington, M.
- Watanabe, M., See Matsubara, K.
—; Yamada, T.; Ogata, M.; Toda, T.
Rapid and simple recovery of DNA fragments from agarose gel by a cotton wool tube, A152
- Watanabe, S., See Kanagawa, M.
- Waterham, H. R.
—; Houten, S. M.; Romeijn, G. J.; Koster, J.; Oostheim, W.; Frenkel, J.; Kuis, W.; Poll-The, B. T.; Wanders, R. J. A.
Molecular basis of inherited disorders of isoprenoid biosynthesis, A163
- Waters, A., See Fraser, T.
- Waterworth, W. M.
—; West, C. E.; Ashley, M. K.; Bray, C. M.
Analysis of the role of the barley peptide transporter HvPTR1 in germination and grain filling, A407
- Waterworth, W. N.
—; West, C. E.; Bray, C. M.
Regulation of peptide transport in the germinating barley grain, A79
- Watkins, J. C.
—; Glutamate: a molecule to remember, A49
—; L-Glutamate as a central neurotransmitter: looking back, 297
- Watkins, M., See Westbury, J.
- Watt, N. T.
—; Walmsley, A. R.; Zeng, F.; Hooper, N. M.
C-terminal anchorage is required for the anti-oxidant function of the prion protein, A348

- Watts, A., *See* Patching, S. G.; Venter, H.
- Watzel, M., *See* Nemetz, C.; Zaiss, K.
- Webb, H., *See* Carrington, M.
- Webster, S., *See* Tomczyk, N. H.
- Webster, S. P., *See* Mullan, L. J.
- Weeks, M.
—; Coote, P.; Robinson, G.; James, D.
Bacterial proteome analysis during transition from exponential to stationary phase, A183
- Weerasena, S. J.
—; Falk, A.
Molecular mapping of the Rph15 gene in barley, A209
- Weichert, H.
—; Kohlmann, M.; Wasternack, C.; Feussner, I.
Metabolic profiling of oxylipins upon sorbitol treatment in barley leaves, 861
—; Kolbe, A.; Wasternack, C.; Feussner, I.
Formation of 4-hydroxy-2-alkenals in barley leaves, 850
- Well, J. H., *See* Fey, J.
- Weiner, J. H., *See* Rothery, R. A.
- Weingartner, M.
—; Schweighofer, A.; Meskiene, I.; Heberle-Bors, E.; Doonan, J.; Bögre, L.
Role for Cdc2 in the spatial organisation of cytoskeletal structures during plant mitosis, A366
- Weinhold, E., *See* Merkiene, E.; Serva, S.
- Weir, D.G., *See* McKinley, M. C.
- Weiss, A. S., *See* Toonkool, P.
- Weissmann, C.
—; Molecular biology of prion disease, A126
- Weiss-Steider, B., *See* Soto-Cruz, I.
- Welander, I., *See* He, Q.
- Welburn, S. C., *See* Hide, G.
- Wells, D. J., *See* Carne, S. B.; Ferrer, A.; McMahon, J. M.; Wynn, S. L.
- Wells, K. E., *See* Ferrer, A.; McMahon, J. M.
- Wells, R. D., *See* Parniewski, P.
- Wende, W., *See* Schoettler, S.
- Weng, C. F.
—; Chiang, C. C.; Gong, H. Y.; Chen, M. H. C.; Lin, C. H.; Hwang, P. P.; Wu, J. L.
Salinity change induces insulin-like growth factor and hepatocyte nuclear factors of gills in a euryhaline teleost (*Oreochromis mossambicus*), A341
- Wenner, C. E., *See* Yan, S.
- Wentzinger, L., *See* Hartmann, M.-A.
- Weselake, R. J.
—; Nykiforuk, C. L.; Laroche, A.; Patterson, N. A.; Wiehler, W. B.; Szarka, S. J.; Moloney, M. M.; Tari, L. W.; Derekh, U.
Expression and properties of diacylglycerol acyltransferase from cell-suspension cultures of oilseed rape, 684
- West, C. E., *See* Waterworth, W. M.
- West, C. E., *See* Waterworth, W. N.
—; Bray, C. M.
Non-homologous end joining and the precision of transgene insertion in plants, A169
- West, S.
—; The repair of double-strand breaks in human cells, A101
- Westbrook, J., *See* Yan, J.
- Westbrook, J. A.
—; Bolad, I.; Amin, V.; Banner, N.; Rose, M.; Dunn, M. J.
Proteomic analysis of acute rejection following heart transplantation, A264
- Westbury, J.
—; Watkins, M.; Ferguson-Smith, A. C.; Smith, J.
The cyclin-dependent kinase inhibitor P57Kip2 exhibits a dynamic and temporally regulated expression pattern during embryonic morphogenesis, A387
- Westerhoff, H. V., *See* Ter Kuile, B.
- Westerman, J., *See* van Tiel, C. M.
- Westhead, D. R.
—; Bioinformatics at MSc level: different approaches, A67
- Westwood, M., *See* Aplin, J. D.
- Whalen, M. M.
—; Loganathan, B. G.
Environmentally relevant concentrations of butyltins inhibit the cytotoxic function of human natural killer lymphocytes, A440
- Wharton, C. W., *See* Booth, V. K.
- Wheatley, A., *See* Asemota, H. N.
- Wheatley, A. O.
—; Asemota, H. M.; Osuji, G.
In vitro studies on the effect of salinity stress on some molecular properties of yam (*Dioscorea alata*) plantlets, A152
- Wheatley, M., *See* Conner, A. C.
- Wheeler, C., *See* Yan, J.
- Wheeler, M. J.
—; Jordan, N. D.; Franklin-Tong, V. E.; Franklin, F. C. H.
Self-incompatibility in *Papaver rhoeas*—the molecular basis of pollen-stigma interactions, A210
- Whitaker, B. D.
—; Smith, D. L.; Green, K. C.
Characterization of a phospholipase D α cDNA from tomato fruit, 819
- White, A. J., *See* Skingsley, D. R.
- White, D. A.
—; Johnson, C. A.; Lavender, J. S.; Turner, B. M.
Site-specificity and biochemical characterisation of two distinct families of mammalian histone deacetylase complexes, A253
- White, G. F., *See* Roy, A. B.
- White, G.F., *See* Booth, V. K.
- White, H. D., *See* Heeley, D. H.
- White, M. R. H., *See* Paraoan, L.
- White, S.
—; Structural studies on ribosomal components—insights into the mechanism of translation, A103
- White, S. A., *See* Lovering, A. L.
- Whitehouse, I.
—; Flaus, A.; Havas, K.; Owen-Hughes, T.
Mechanisms for ATP-dependent chromatin remodelling, 376
- Whitley, G. St. J., *See* Da Costa, C. R.
- Whitmore, L., *See* Chugh, J.
- Whitney, H.
—; Sayanova, O.; Lewis, M. J.; Pickett, J.; Napier, J. A.
Isolation of two putative acyl-acyl carrier protein desaturase enzymes from *Kochia scoparia*, 623
- Whittaker, M.
—; Phoenix, D. A.; Gacesa, P.; Tatnell, P.
A coupled assay for the detection of mannuronan C⁵ epimerase, A324
- Whyte, M. K. B., *See* Usher, L. R.
- Wińska, P., *See* Balińska, M.
- Wick, G., *See* Perschinka, H.
- Wicking, C. A., *See* McGlenn, E. C.
- Wicks, W. D., *See* Li, H.
- Wickstead, B.
—; Alsford, S.; Ersfeld, K.; Gull, K.
Minichromosome integrity and stability in the African trypanosome, A253
- Wieczorek, G. A.
—; Zielonkiewicz, P.
Analysis of oligonucleotides' usage in known genomes: implications for prediction of regulatory sequences, A149
- Wiehler, W. B., *See* Weselake, R. J.
- Wiejak, J.
—; Platek, A.; Wyroba, E.
Searching for a putative dynamin homologue in *Paramecium*, A355
- Wieringa, B.
—; Flexibility in the network for high-energy phosphoryl (ATP) transfer in mammalian cells, A99
- Wiese, A., *See* Brandenburg, K.
- Wieslander, A., *See* Li, L.
- Wiesner, S., *See* Fuerst, D. O.
- Wigglesworth, M. J.
—; Harison, M. A.; Edwards, R. M.; Findlay, J. B. C.
Structure/function alterations of the activated *Saccharomyces cerevisiae* α -factor receptor (Ste2), A272
- Wilchek, M., *See* Rabinkov, A.
- Wilczewska, I., *See* Kuczynska-Wisnik, D.
- Wild, N., *See* Hassan, P.
- Wilderspin, A. F., *See* Korniotis, N.
- Wilhelm, J.
—; Pingoud, A.; Hahn, M.
LightCycler based real-time PCR for high accuracy quantitation of gene copy numbers, A152
- Wilkes, T. M.
—; Towson, P. D.; Koumproglou, R.; Bradshaw, S. J.; Wang, X. Y.; Newbury, H. J.; Pooni, H. S.; Kearsy, M. J.
QTL analysis in *Arabidopsis* using overlapping substitution lines, A210
- Wilkie, S. E., *See* Newbold, R. J.
- Wilkinson, M. D., *See* Edlin, D. A. N.
- Wilkinson, M. G., *See* Hughes, J. P.
- Williams, A. J., *See* Uronen, H.
- Williams, C., *See* Johnston, J. A.
- Williams, D.
—; Overview of biomaterials used in tissue engineering, A54
- Williams, D. B., *See* Leach, M. R.
- Williams, D. M., *See* McEllone, M.
- Williams, G.
—; Nelson, A.; Berry, A.
Engineering the mechanisms of C-C bond-forming enzymes, A70
- Williams, G. T., *See* Da Costa, C. R.
- Williams, K., *See* Karlyshev, A. V.
- Williams, K. A.
—; Three-dimensional structure of an *Escherichia coli* secondary transporter, NhaA, at 7-Å resolution, A65
- Williams, M.
—; Harwood, J. L.
Characterization of lipoxygenase isoforms in olive callus cultures, 830
- Williams, S. L., *See* Muddle, J. R.
- ; Schapira, A. H. V.; Taanman, J.-W.
Rapid *in vitro* selection of cells with restored mitochondrial function, A366
- Williams, T. A., *See* Siviter, R. J.
- Williamson, D. H.
—; Denny, P. W.; Moore, P. W.; McCready, S.; Sato, S.; Wilson, R. J. M.
When is a circle not a circle?—a tale of two plastids, A486
- Williamson, G.
—; Day, A. J.; Plumb, G. W.; Couteau, D.

- Human metabolic pathways of dietary flavonoids and cinnamates, 16
 —; Human metabolism of dietary chemopreventive compounds, A7
- Williamson, R.**
 —; Schubert, T. E. O.; Everall, I. P.; Anderton, B. H.
 Two-dimensional protein analysis of primary rat and human cortical cultures: alteration of total protein expression profiles after treatment with fibrillar amyloid- β peptide (A β), A37
- Williamson, R. A., See Wong, B.-S.**
- Wilmer, J. A.**
 —; Brown, A. P.; Forsyth, K.; Carnaby, S.; Barsby, T.; Slabas, A. R.
Limnanthes douglasii erucic acid-specific lysophosphatidic acid acyltransferase activity in oilseed rape: an analysis of biochemical effects, 964
- Wilmot, C., See Kurtis, C.**
- Wilmot, C. M., See Firbank, S. J.**
 —; Cooke, P. A.; Hajdu, J.; McPherson, M. J.; Knowles, P. F.; Phillips, S. E. V.
 Inhibition of oxygen binding in the copper-containing quinoprotein amine oxidase, A77
 —; Hajdu, J.; McPherson, M. J.; Knowles, P. F.; Phillips, S. E. V.
 Oxygen activation in the copper-containing quinoprotein amine oxidase, A77
- Wilson, C. L.**
 —; Doig, A. J.; Hubbard, S. J.
 Improving protein secondary structure prediction methods using empirical and evolutionary data, A78
- Wilson, D. O.**
 —; Johnson, P.; McCord, B. R.
 Non-radiochemical DNase I footprinting by capillary electrophoresis, A366
- Wilson, J., See Hendriks, E.**
 —; Matthews, K. R.
 Investigations into the initiation and control of lifecycle differentiation of African trypanosomes, A486
- Wilson, K. C. M., See Messahel, S.**
- Wilson, K. S., See Raux, E. C.**
- Wilson, M. T., See Nicol, D. M.**
- Wilson, R. J. M., See Williamson, D. H.**
- Wilson, S. J., See Roobol, A.**
- Wilson-Annan, J. C., See Millar, J. K.**
- Winberg, J.-O., See Lindstad, R. I.**
- Winchester, B.**
 —; Molecular basis of lysosomal storage diseases and their treatment, A10
 —; Vellodi, A.; Young, E.
 The molecular basis of lysosomal storage diseases and their treatment, 150
- Wing, K., See Hickling, T. P.**
- Wingler, K., See Florian, S.**
- Winkelhaus, S., See Heerklotz, D.**
- Winter, A., See Psatha, M.**
- Wintour, E. M., See Deivanayagam, S.**
- Winzler, E.**
 —; Functional analysis of the yeast genome, A112
- Winzler, E. A., See Karlyshev, A. V.**
- Wirtz, G., See Wyss, A.**
- Wirtz, K.**
 —; Phosphatidylinositol transfer proteins in lipid signalling, A131
- Wirtz, K. W. A., See van Tiel, C. M.**
- Wisdom, G. B., See Hutchinson, O. C.**
- Wise, J. G., See De, S.**
- Wizemann, S., See Nemetz, C.; Zaiss, K.**
- Woggon, W.-D., See Wyss, A.**
- Wojcierowski, J. K., See Antosz, H. Z.**
- Wójcik, J., See Speina, E.**
- Wolf, C. R., See Hayes, J. D.; Henderson, C. J.**
- Wolf, R.**
 —; Genetic variation in genes which determine sensitivity to environmental agents, A141
- Wolfe, J., See Modarressi, M. H.**
- Wolfe, K.**
 —; High frequency of inversions during gene order evolution in eukaryotes, A107
- Wolfe, K. H.**
 —; Genome duplication and gene-order evolution in ascomycetes, A23
- Wolfe, A. P.**
 —; Co-repressor complexes and remodelling chromatin for repression, A63
 —; Urnov, F. D.; Guschin, D.
 Co-repressor complexes and remodelling chromatin for repression, 379
- Wolfson, A. J., See Smith, A. I.**
- Wollenberger, U., See Fridman, V.**
- Wolowacz, R., See Maxfield, S. J.; Shann, L.**
- Wolowacz, R. G., See Newton, P. M.**
- Wolun-Cholewa, M., See Fik, E.**
- Wong, B.-S.**
 —; Brown, D. R.; Clive, C.; Haswell, S.; Sy, M.-S.; Gambetti, P.; Williamson, R. A.; Burton, D. R.; Jones, I. M.
 Effect of copper on recombinant mouse prion protein, A36
- Wong, E., See Guy, G. R.**
- Wong, E. Y., See Daniels, R. H.**
- Wong, H. P. S.**
 —; Tsang, J. S. H.
 Heterologous expression of a haloalkane dehalogenase gene *dhaA* from *Rhodococcus erythropolis* Y2 in *Escherichia coli*, A153
- Wong, H. T.**
 —; Cheng, S. C. S.; Chan, E. W. C.; Sheng, Z. T.; Xie, Y.
 Protection against foot-and-mouth disease in mice and swine immunized with plasmid encoding VP1 epitopes, A258
- Wong, K. H. N., See Laich, A.**
- Wong, M., See Taylor, V.**
- Wong, N., See Chiu, R. Y. K.**
- Wong, N. S., See Cheung, P. Y.**
- Wongkham, C., See Patrakitkomjorn, P.; Pattarakitkhomjorn, S.**
- Wongkham, S., See Patrakitkomjorn, P.; Pattarakitkhomjorn, S.**
- Woo, P., See Cooke, E.**
- Wood, C., See Masterson, C.**
- Wood, E. J., See Howling, G.; Maxfield, S. J.; Newton, P. M.; Ulukaya, E.**
 —; Scott, K. A.
 Platelet-derived growth factor-AB increases the expression of matrix metalloproteinase-1 by human dermal fibroblasts in the dermal equivalent model, A84
- Wood, I. C., See Roopra, A.**
 —; Roopra, A.; Mistry, M.; Buckley, N. J.
 The neuron-restrictive silencer factor remodels chromatin and represses transcription in neurons, A88
- Wood, S. P., See Roberts, M. M.**
- Woods, J. A., See O'Brien, N. M.**
- Woolfson, D. N., See Pandya, M. J.**
- Woolfson, D. N., See Walshaw, J.**
- Woolfson, D. N.**
 —; *De novo* protein design: from helical bundles to protein fibres, A52
- Woolhead, C.**
 —; Bohlius, A.; Robinson, C.
- Novel mechanisms for the targeting of proteins into and across chloroplast membranes, 491
- Woollacott, A. J.**
 —; Simpson, P. B.
 Pharmacological regulation of mitochondrial permeability in cultured neuroblastoma cells, A205
- Woolley, G. A., See Booth, V. K.; Flint, D. G.**
- Worrall, D. M., See Blacque, O. E.**
- Wozniak, R., See Gostick, D.**
- Wrana, J.**
 —; TGF β signalling and the Smad pathway, A128
- Wren, B. W., See Karlyshev, A. V.**
- Wride, M.**
 —; Mouse embryonic stem (ES) cell neural differentiation: identification of a substantial number of novel, uncharacterized and disease-related expressed sequence tags (ESTs) using subtraction cloning, A456
- Wright, A. P. H., See Wallberg, A. E.**
 —; Recruitment of chromatin remodelling factors during gene activation via the glucocorticoid receptor N-terminal domain, A64
- Wright, J. M.**
 —; Denovan-Wright, E. M.; Pierce, M.; Wang, Y.; Sharma, M. K.; Anopuechi, V.; Liu, R.
 Sequence of fatty acid binding proteins and their tissue-specific expression in adult zebrafish (*Danio rerio*), A238
- Wright, P., See Th'ng, J.**
 —; NMR structural characterization of protein folding pathways and intermediates, A136
- Wright, S. K., See Bell, J. K.**
- Wu, J., See Wang, Z.-Q.**
- Wu, J.-L., See Hong, J.-R.**
- Wu, J. L., See Weng, C. F.**
- Wu, N. H., See Chen, X. S.; Zhang, Y.**
- Wu, R. S. S., See Cheng, S. H.**
- Wu, S. N., See Li, H. F.**
- Wu, Y., See Young, N. M.**
- Wurtele, E. S., See Fatland, B.; Nikolau, B. J.**
- Wyatt, J. S., See Cooper, C. E.**
- Wylie, P., See Ahmed, Z.**
- Wynn, R. M., See Song, J. L.**
 —; Ho, R.; Chuang, J. L.; Evarsson, A. A.; Hol, W. G. J.; Chuang, D. T.
 Structure and function of human mitochondrial branched-chain α -ketoacid dehydrogenase, A424
- Wynn, S. L.**
 —; Fisher, R. A.; Liu, Q.; Wells, D. J.; Pagel, C.; Khan, I. M.; Zammit, P.; Buluwela, L.
 Genomic organisation of the *GARTSON-DONSON* locus defines three genes in close proximity on chromosome 21, A240
- Wyroba, E., See Wiejak, J.**
- Wyss, A.**
 —; Wirtz, G.; Woggon, W.-D.; Brugger, R.; Wyss, M.; Friedlein, A.; Bachmann, H.; Hunziker, W.
 Cloning and expression of β , β -carotene 15,15'-dioxygenase, A334
- Wyss, M., See Wyss, A.**
- Wyszko, E., See Barciszewski, J.; Siemion, I. Z.**
- Xavier, A.**
 —; Structural bases for redox-Bohr-linked energy transduction, A110
- Xia, C., See Cooke, E.**
- Xia, Z.-X., See Wang, Z.-Q.**
- Xiao, H.**
 —; Hirata, Y.; Isobe, K.; Kiuchi, K.

- GDNF-induced expression of tyrosine hydroxylase, A239
- Xiao, N., See Hager, G. L.
- Xie, H.
—; Litherland, G. J.; Henderson, P. J. F.; Holzenburg, A. K. H.; Phillips, S. E. V.; Baldwin, S. A.; Gallagher, M. P.
Construction and overexpression of an affinity-tagged NupG, a bacterial nucleoside transporter from *Escherichia coli*, A94
- Xie, Y., See Wang, Z.-Q.
- Xie, Y., See Wong, H. T.
- Xiong, G.
—; Maser, E.
Two repressors for 3 α -HSD gene regulation in *Comamonas testosteroni*, A244
- Xu, C., See Chen, S.
- Xu, G. J.
—; Xu, Q.; Hu, H. Y.
Monoclonal antibody-assisted refolding of firefly luciferase, A414
- Xu, H.
—; El-Gewely, M. R.
p53 network—its downstream regulated genes, A227
- Xu, L., See Cheung, P. Y.
- Xu, Q., See Nie, Y.; Perschinka, H.
- Xu, Q., See Xu, G. J.
- Yacoub, M. H., See Brand, N. J.
- Yáldýrým, E.
—; Ferhan, S.; Girgin, K.
A new interactive-multimedia teaching approach for crowded classes in the first year of medicine, A145
- Yadav, M., See Vasudha, S.
- Yadava, P. K., See Baquer, N. Z.
- Yadollahi-Farsani, M., See Saxty, B. A.
- Yagi, K., See Hasegawa, S.
- Yaguzhinsky, L. S., See Lapin, M. V.
- Yalcýn, S., See Elgun, S.
- Yamada, H., See Tomomura, A.
—; Tomomura, A.; Katoh, S.
Serum calcium-decreasing factor (caldecrin) gene expression in muscle, A324
- Yamada, K., See Shingu, T.; Terashima, M.
—; Terashima, M.; Shimoyama, M.; Tsuchiya, M.
Arginine-specific ADP-ribosyltransferase in differentiated smooth muscle cell, A293
- Yamada, M., See Hori, S.; Nakashima, K.
—; Kamei, D.; Akagi, T.; Kawamura, H.; Ochiai, M.
Molecular characterization of a novel human hnRNP D-like protein JKTBP and a possible role in mRNA nuclear transport, A356
- Yamada, T., See Watanabe, M.
- Yamada, Y., See Kajino, T.
- Yamagata, Y., See Funahashi, J.
- Yamagiwa, M., See Sakai, H.
—; Komano, T.; Sakai, H.
The mode of action of a dipteran-specific bioinsecticide, Cry4A produced by *Bacillus thuringiensis*, A440
- Yamaguchi, K., See Uesugi-Hayakawa, R.
- Yamaguchi, M., See Ihara, Y.
- Yamakawa, T., See Ohyama, K.
- Yamamoto, A., See Nakamura, N.
- Yamamoto, D., See Sonoda, Y.
- Yamamoto, M., See Hayes, J. D.
- Yamamoto, S., See Horton, A. A.
- Yamao, T., See Takada, T.
- Yamaryo, Y.
- ; Kanai, D.; Awai, K.; Masuda, T.; Shimada, H.; Takamiya, K.-i.; Ohta, H.
Transcriptional regulation by light and phytohormones of the *MGD* gene in cucumber, 738
- Yamasaki, A., See Sugino, H.
- Yamasaki, N., See Moriwaki, S.; Ohba, H.
- Yamasaki, T., See Shingu, T.
- Yamazaki, K., See Hiraga, K.
- Yan, J.
—; Wait, R.; Berkelman, T.; Harry, R.; Westbrook, J.; Wheeler, C.; Dunn, M.
MALDI- and Q-TOF mass spectrometry analysis of proteins separated by two-dimensional gel electrophoresis and stained with a modified silver stain kit, A152
- Yan, J. X., See Harry, R. A.
- Yan, S., See Myler, P. J.
—; Wenner, C. E.
Perturbation of EGF-activated MEK1 and PKB signal pathways by TGF- β 1 correlates with perturbation of EGF-induced cyclin D1 and DNA synthesis by TGF- β 1 in C3H 10T1/2 fibroblasts, A370
- Yan, S. D.
—; RAGE serves as a signal transduction receptor for amyloid- β peptide (A β) fibrils mediating cell stress, A14
- Yanagida, M.
—; Faithful sister chromatid separation in mitosis, A135
- Yañez, A. J.
—; Ludwig, H. C.; Asenjo, J. L.; Carcamo, J. G.; Droppelmann, C. A.; Slebe, J. C.
Introduction of a tryptophan reporter group into different regions of the fructose-1,6-bisphosphatase for the study of ligand binding and conformational dynamics, A424
- Yang, Ch.-h., See Kim, T. D.
- Yang, L.
—; Su, C.
Generation and selection of the immunoglobulin repertoire of anti-human gastric cancer single chain Fv antibody by the phage display library, A163
- Yang, S. Y.
—; Palmitoylated G α exhibits long-lived anchorage to, and higher affinity for, membranes, A448
- Yang, X.-K., See Li, J.
- Yang, Y.-S., See Su, T.-M.
- Yang, Z. Q.
—; Zuo, Y. X.
Identification of *Sarcocystis hominis*-like (protozoa: sarcocystidae) cyst in water buffalo (*Bubalus bubalis*) based on 18S rRNA gene sequences, A487
- Yao, K.-M., See Leung, T. W. C.
- Yao, M.
—; Ose, T.; Sugimoto, H.; Horiuchi, A.; Nakagawa, A.; Yokoi, D.; Murakami, T.; Honma, M.; Wakatsuki, S.; Tanaka, I.
2.0Å resolution structure of 1-aminocyclopropane-1-carboxylic acid deaminase from *Hansenula saturnus*, A423
- Yao, S. Y. M., See Appleford, P. J.; Hyde, R. J.; Parker, M. D.
- Yasa, M. H., See Gokhun, I. H.
- Yasinska, I. M., See Sumbayev, V. V.
—; Sumbayev, V. V.
The regulation of the aromatase activity by the reductors-antioxidants, glucocorticoids and unsteroid estrogens, A334
- Yasuda, H., See Nishida, T.
- Yasuda, K., See Hatayama, T.
- Yasuda, S., See Moriwaki, S.; Ohba, H.
- Yates, Z., See Blackburn, A.
- Yau, T. O., See Chen, Y. S.
- Yavin, E., See Kuperstein, F.
- Yeşilbursa, D., See Tokullugil, A.
- Yegorova, Y. V., See Kireev, R. A.
- Yeh, B. I., See Jung, Y.
- Yeom, M. J., See Kim, H. Y.
- Yeow, K., See Cabane, C.
- Yeung, C. K.
—; Evans, A. T.; Denyer, M. C. T.; Offenhäusser, A.; Britland, S. T.; Knoll, W.
Towards optimal cell culture for myocyte-based biosensors, A43
- Yevdokimov, Y. M.
—; DNA liquid-crystalline biosensors, A21
—; Double-stranded DNA liquid-crystalline dispersions as biosensing units, 77
- Yi, S. W., See Jung, K. K.
- Yilmazer, S., See Süsleyici, B.
- Yim, M. B.
—; Barrett, W. C.; Kim, H.-P.; Chock, P. B.
The role of superoxide radical anion in signal transduction, A284
- Yin, X. Y., See Yun, J. P.
- Yiotakis, A., See Dive, V.
- Ylikomi, T., See Lyakhovich, A.
- Yokaichiya, D. K.
—; Galembeck, E.; Torres, B. B.
Using the Internet for teaching nutritional biochemistry to undergraduate students, A145
- Yokoi, D., See Yao, M.
- Yokomizo, T., See Hori, S.
- Yon, C.-S., See Han, J.-S.; Shin, I.
- Yonath, A.
—; Insight into ribosomal particles at close to atomic resolution, A109
- Yongvanit, P., See Boonsiri, P.
—; Puangpornpitag, D.; Sripa, B.; Kampan, J.; Tassaneeyakul, W.; Seow, O.-T.
Induction of nitric oxide synthase and activities of cytochrome P450 2E1, 2A6 in cholangiocarcinoma liver tissue, A227
- Yoo, K. S., See Roh, T.
- Yoo, O. J., See Choi, J. G.
- Yoo, S. D., See Kang, C. D.
- Yoo, W.-K., See Chang, S.-I.
- Yoon, S. Y., See Kim, K. T.
- Yoon, T. J., See Kim, K. T.
- Yoshida, H.
—; Iizuka, M.
Cloning and sequencing of a serine carboxypeptidase from *Fusarium moniliforme* that was copurified with a phosphatase, A324
- Yoshihara, K., See Tanaka, Y.
- Yoshikawa, S.
—; Shinzawa-Itoh, K.; Tsukihara, T.
Reaction mechanism of bovine heart cytochrome *c* oxidase, A190
- Yoshimura, K., See Kanematsu, T.; Takeuchi, H.
- Yoshinaga, E., See Sakai, T.; Uesugi-Hayakawa, R.
—; Matsuo, H.; Uesugi-Hayakawa, R.; Tajima, A.; Nisiwaki, C.; Sakai, T.; Wakizaka, A.
The elevated expression level in cyclin-dependent kinase inhibitor genes in tumor-bearing mice liver, A239
- Yoshioka, T., See Horton, A. A.
- Yoshioka, T., See Utsumi, K.
- Youn, M.-R., See Chang, S.-I.
- Young, E., See Winchester, B.

- Young, I. G.**, See Wang, J.
- Young, J. D.**, See Appleford, P. J.; Booth, Z. A.; Hadden, D. A.; Hyde, R. J.; Parker, M. D.
- Young, N. M.**
—; Patenaude, S.; Thomas, R.; Evans, S. E.; MacKenzie, R.; Hiram, T.; To, R.; Brisson, J.-R.; Wu, Y.
Structure of an antibody scFv fragment specific for blood group A, and SPR analysis of higher affinity mutants, A337
- Young, T. W.**, See Konopka, M. A.; Osborne, J. G.; Sampayo, C. M.
- Younis, H. M.**
—; Hamid, N. A.; Abo El-Saad, M. M.; Abo-Seda, S. A.
Alterations in the respiratory protein complexes of rat heart mitochondria induced by the insecticide Fenvalerate, A191
- Ypma, T.**, See Czerlinski, G.
- Yu, D. M. T.**, See Abbott, C. A.
- Yu, J.**, See Barker, C. J.
- Yu, S.**, See Guo, C.
- Yu, T.**, See Mushtaq, A.
- Yu, X.-X.**, See Li, J.
- Yuan, A.**, See Roobol, A.
- Yuan, B.**, See Ohyama, K.
- Yuan, C.-J.**, See Wang, C.-Y.
- Yuan, J.**
—; Caspase-12 mediates an ER-specific apoptosis pathway, A139
- Yugai, Y. E.**, See Bersimbaev, R. I.
- Yujing, Z.**
—; Telomere structure of *Chironomus pallidivittatus* and *Tentans*, A184
- Yukawa, O.**, See Nakajima, T.
- Yun, J. P.**
—; Yin, X. Y.; Chew, E. C.; Liew, C. T.
Nuclear matrix protein composition of hepatocytes from rat normal and cirrhotic livers under non-regeneration and regeneration, A298
- Yunus, A. M. M.**, See Parveez, G. K. A.
- Yutanawiboonchai, W.**, See Pattarakitkhomjon, S.
- Yutani, K.**, See Funahashi, J.
- Zaalishvili, M. M.**, See Simonishvili, S. O.
- Zabeau, M.**, See Breyne, P.
—; Genome-wide expression analysis in *Arabidopsis*, A112
- Zablocka, B.**
—; Zalewska, T.; Ziemka-Nalecz, M.; Bronisz-Kowalczyk, A.; Domanska-Janik, K.
Survival and death promoting signals after transient brain ischemia in gerbil, A434
- Zablocki, K.**
—; Makowska, A.; Wasniewska, M.; Duszynski, J.
The modification of Ca²⁺ influx rate into Jurkat T cells by external pH and energization of the mitochondrial membrane, A284
- Zabotina, O. A.**, See Ayupova, D. A.
- Zadrozny, M.**, See Smolarz, B.
- Zagdanska, B. M.**
—; Bogdan, J.
Sucrose metabolism in wheat seedlings upon water deficiency, A407
- Zaghloul, T. I.**
—; Hussein, D. E.; Hassouna, S.
Enhanced expression of the cloned alkaline protease (*aprA*) gene in *Bacillus subtilis dnaC30ts* mutant, A240
- Zähringer, U.**, See Leipelt, M.; Sperling, P.
- Zaidi, Z. H.**, See Azim, M. K.
- Zainal, A.**, See Parveez, G. K. A.
- Zaiss, K.**, See Nemetz, C.
—; Fernholz, E.; Metzler, T.; Buchberger, B.; Wizemann, S.; Watzele, M.; Nemetz, C.; Schels, H.; Mutter, W.; Röder, A.
From gene to protein in hours not days, A239
- Zaitseva, L. G.**
—; Ovchinnikova, T. V.; Vodovozova, E. L.; Molotkovsky, J. G.; Polyakov, N. B.; Esipov, S. E.; Grinkevich, V. A.
Structural studies on the proton-translocating portion of mitochondrial ATP synthase, A191
- Zakharova, E. A.**
—; Kosterin, P. V., Shcherbakov, A. A.
Quantitative structure-activity relationships for auxin molecules, A408
- Zakharyan, E.**
—; Trchounian, A.
Escherichia coli uses a distinct K⁺ uptake system and/or a different mode in its operating depending on growth pH, A395
- Zalewska, T.**, See Zablocka, B.
- Zalkin, H.**, See Rappu, P.
- Zaltsman, A.**, See Birkett, S. D.
- Zamler, E.**, See Gakh, O.
- Zammit, V. A.**
—; Use of *in vivo* and *in vitro* techniques for the study of the effects of insulin on hepatic triacylglycerol secretion in different insulinaemic states, 103
—; Use of liver-specific targeting of both insulin and acyl moieties to study the effects of the hormone on hepatic triacylglycerol (TAG) secretion *in vivo*, A8
- Zammitt, P.**, See Wynn, S. L.
- Zamolodchikova, T. S.**, See Sokolova, E. A.
- Zamyatkin, D. F.**, See Polosina, Y. Y.
- Zamyatkin, D. F.**
—; Rogov, V. V.; Filimonov, V. V.
Equilibrium association of unfolding intermediate of designed 1 Cro-repressor variants, A414
- Zarchipour, S.**, See Einollahi, N.
- Zarghami, N.**, See Hazrati-tappe, K.; Rahbani, M.; Rahbar, M.
—; Mehdiqhani, M.; Rahbani, M.
Correlation between PSA, IGF-I, GH and infertility in men, A298
- Zarrouk, M.**, See Daoud Ben Miled, D.; Jemal, F.
- Zarsky, V.**, See Cvrckova, F.
- Zarytova, V. F.**, See Bozhenok, L. N.
- Zasedatelev, A. S.**, See Mikheikin, A. L.
- Zaslavsky, D.**, See Siletsky, S.
- Zatyka, M. M.**, See Bingle, L. E. H.
- Zavodszky, P.**, See Nemeth, A.
- Zazimalova, E.**, See Krizkova, L.
- Zazimalova, E.**
—; Petrasek, J.; Martinec, J.; Brezinova, A.
Auxin in growth cycle of tobacco cell strain: auxin levels, translocation and signalling, A408
- Zdanowski, K.**
—; Dadlez, M.
Beta-hairpin is a folding initiation site in BPTI, A414
- Zechner, R.**, See Landl, K.
- Zeidler, J.**, See Mueller, C.
—; Schwender, J.; Mueller, C.; Lichtenthaler, H. K.
The non-mevalonate isoprenoid biosynthesis of plants as a test system for drugs against malaria and pathogenic bacteria, 796
- Zell, J.**, See Ramakrishnan, R.
- Zeng, F.**, See Walmsley, A. R.; Watt, N. T.
—; Walmsley, A.R.; Hooper, N. M.
N-terminal anchorage of the prion protein results in a novel proteinase K resistant fragment, A349
- Zeppa, S.**, See Polidori, E.
- Zhai, B.**, See Liao, K.
- Zhang, P.**, See Nie, Y.
- Zhang, Q.**, See Chen, S.
- Zhang, Y.**
—; Wang, T. Y.; Cheng, X. K.; Wu, N. H.; Shen, Y. F.
p53 regulates the expression of human hsp90 β gene, A243
- Zhang, Y. J.**, See Zhang, Y. L.
- Zhang, Y. L.**
—; Zhang, Y. J.; Ouyan, H. S.; Liu, S. C.; Lian, J. Q.; Zhao, F. Y.; Zhao, J. J.
Gene endocrine gland: expression of growth hormone releasing factor in animal muscle, A472
- Zhang, Z.**, See Komatsu, S.; Wang, C.-Y.
- Zhang, Z.**, See Booth, V. K.
- Zhao, F. Y.**, See Zhang, Y. L.
- Zhao, J. J.**, See Zhang, Y. L.
- Zheleznova, E. E.**, See Vazquez-Laslop, N.
- Zheng, H.**, See Andreeva, A. V.
- Zheng, L.**, See Wang, X.
- Zheng, R. Q.**, See Murphy, B. J.
- Zheng, X.**
—; Avella, M. A.; Botham, K. M.
The effect of chylomicron remnants enriched in *n*-3 or *n*-6 polyunsaturated fatty acids on lipid secretion in isolated hepatocytes, A343
- Zhiboedov, P. M.**, See Kashulin, P. A.
- Zhirov, V. K.**, See Kashulin, P. A.
- Zhou, H.**, See Wang, D.
- Zhou, J.-M.**
—; Huang, G.-C.; Li, Z.-Y.
Trigger factor assisted protein folding, A414
- Zhou, T.**, See Bhattacharjee, H.
- Zhu, H.**
—; Roberts, N. B.; Hart, C.A.
Killing of bacteria by human gastric juice, A385
- Zhu, Q.**
—; Wani, G.; Wani, M. A.; Wani, A. A.
Regulation of p53 stability and transcriptional activity by hHR23 and its modulation by UV radiation, A169
- Zhukov, A. V.**, See Vereshchagin, A. G.
- Zhuravin, I. A.**, See Nalivaeva, N. N.
- Zhuze, A. L.**, See Mikheikin, A. L.
- Ziad, H.**, See Gincel, D.
- Zielenkiewicz, P.**, See Kaczanowski, Sz.
- Zielenkiewicz, P.**, See Plochocka, D.
- Zielenkiewicz, P.**, See Skowronski, K.; Wieczorek, G. A.
- Ziemka-Nalecz, M.**, See Zablocka, B.
- Zierz, S.**, See Gellerich, F. N.
- Zihni, C.**
—; Kapas, S.
Adrenomedullin and Calcitonin gene-related peptide activate the mitogen-activated protein kinase pathway in both vascular smooth muscle and endothelial cells, A298
- Zikan, M.**, See Pohlreich, P.
- Zilletti, L.**, See Failli, P.
- Zimmer, S.**, See Stocker, A.
- Zingg, J. M.**, See Ricciarelli, R.
- Znamenskaya, L. V.**, See Vershinina, O. A.
—; Secreted ribonucleases from bacilli: genetic structure and regulatory control, A244

Zografski, G., *See* Dimovski, A. J.
Zoladek, T., *See* Gajewska, B.
Zolotareva, E. K., *See* Mykhaylendko,
N. F.; Usenko, O. A.
Zorko, M., *See* Slajpah, M.; Soomets, U.
Zou, J., *See* Katavic, V.
Zou, K., *See* Muramatsu, H.
Zou, W., *See* Li, Z.-Y.
Zozulya, V., *See* Shcherbakova, A.

Zsiros, O., *See* Várkonyi, Z.
Zubov, V., *See* Kuptsova, S.
Zueva, T. V.
—; Grishanova, A. Y. U.
Bilirubin and activation of CYP1A1
expression under ultrasound action,
A239
Zuily-Fodil, Y., *See* Marcel, G. C. F.;
Matos, A. R.

Zuklys, S., *See* Kulyté, A.
Zuo, Y. Z., *See* Yang, Z. Q.
Zuohua, F., *See* Mingcai, L.
Zurawa, D., *See* Kuczwar, E.
Zvauya, R., *See* Bvochora, J. M.
Zychlinsky, A.
—; Lipoproteins and recognition by
toll-like receptors, A114