

biochemical society
TRANSACTIONS

639th Meeting Manchester

colloquia

The Extracellular Matrix in Health and Disease

Biochemistry of the Eye

Autocoid and Hormone Receptors: Rational Drug Design

Biological Mass Spectrometry

Regulation of Retroviral Gene Expression

**Bioenergetics — What Should We Teach and How Should We
Teach it?**

Enzymology *in vivo*

Cytoskeleton: its Role in Cellular Function

communications

AUTHOR INDEX

- Aakhus, A. M.**
—; Wilkinson, J. M.; Solum, N. O.
Glycoprotein Ib- and actin-binding regions in human platelet actin-binding protein. 1133
- Abadah, S.** See Harrison, R.
- Abadom, F. E.**
—; Milsom, D. W.
Digestive enzymes of the West African giant land snail, *Archachatina marginata*. 334s
- Abu Shanab, A. A.**
—; Allen, J. M.; Guthrie, D. J. S.; Irvine, G. B.; Walker, B.
Neurokinin A analog binding to NK-2 receptors from guinea pig brain. 13s
- Adams, S. A.** See Forrest, I. A.
- Adie, E. J.** See McKenzie, F. R.
- Afrasiabi, M.**
—; Elder, G. E.; Lappin, T. R. J.; Bridges, J. M.
Characterization of CHAPS-solubilized active erythropoietin receptors from Rauscher erythroleukemic cells using biotinylated erythropoietin. 34s
- Agius, L.** See Al-Habori, M.
- Agutter, P. S.**
Role of the cytoskeleton in nucleocytoplasmic RNA and protein distributions. 1094
- Ahmann, D.** See Reuber, T. L.
- Aitken, A.** See Cockle, S. M.
- Akhmaloka**
—; Grant, C. M.; Stansfield, I.; Tuite, M. F.
The use of allosuppressor alleles of the SAL4 gene in the study of translational fidelity in *Saccharomyces cerevisiae*. 281s
- Akiyama, S. K.** See Aota, S.; Mould, A. P.
- Alam, A.**
—; Britton, G.; Pows, R.; Goad, J.
Aspects related to 3-hydroxy-3-methylglutaryl-CoA synthesis in higher plants. 164s
- Albon, J.** See Karwatowski, W. S. S.
- Aldalou, A. R.**
—; Irvine, G. B.; Allen, J.; Shaw, C.; Nelson, J.; Walker, B.
Receptor binding and contractile activity of some synthetic neurotensin fragments on isolated guinea pig tenia coli. 31s
—; Irvine, G. B.; Shaw, C.; Guthrie, D. J. S.; Nelson, J.; Walker, B.
Binding affinities of some neurotensin analogs to neurotensin receptors from rat brain. 12s
- Aldhous, M. C.** See Leaver, H. A.
- Al-Habori, M.**
—; Peak, M.; Agius, L.
Cytochalasins potently inhibit glycogen synthesis in hepatocyte cultures by an indirect mechanism. 1125
- Aliakbar, S.**
—; Bidwell, D. E.; Nicolaidis, K. H.; Brown, P. R.
Human erythrocyte SOD in adults and normal, hypoxemic, and anemic fetuses. 227s
- Allen, A. C.** See Morell, P.
- Allen, J.** See Aldalou, A. R.
- Allen, J. M.** See Abu Shanab, A. A.
- Allen, M. D.** See Tuckwell, D. S.
- Allen, M. H.**
—; Grindstaff, D. J.; Vestal, M. L.; Nelson, R. W.
Comparison of electrospray-ionization MS and matrix-assisted laser desorption time-of-flight MS for the analysis of protein mixtures. 954
- Allen, S. P.**
—; McCormack, J. G.
The loading of fura 2 into mitochondria in intact rat heart and its use to estimate matrix calcium. 138s
- Allsop, P.**
—; Jorfeldt, L.; Rutberg, H.; Hall, G. M.
Muscle pH recovery after high intensity cycle exercise in malignant hyperthermia susceptible subjects. 131s
- Almaas, B.**
—; Pryme, I. F.; Vedeler, A.; Hesketh, J. E.
Differences in the content of actin-binding proteins in subcellular fractions prepared from Krebs II ascites cells. 1135
- Almar, M. M.** See Monsalve, E.
- Alonso de la Torre, S. R.**
—; Serrano, M. A.; Caropaton, T.; Medina, J. M.
Proton gradient-dependent active transport of L-lactate in basal plasma membrane vesicles isolated from syncytiotrophoblast human placenta. 409s
- Ambler, R. P.**
Proteins containing unusual amino acid sequences. 517
- Amezaga, M. A.** See Cassatella, M. A.
- Anand, R.** See Horvath, A. R.; Lindstrom, J.
- Anderson, S. M. L.** See McLean, W. H. I.
—; Elliott, R. J.
A dye-binding assay for soluble elastin. 388s
Evaluation of a new, rapid collagen assay. 389s
—; McLean, W. H. I.; Elliott, R. J.
The effects of ascorbic acid on collagen synthesis by cultured human skin fibroblasts. 48s
- Andersson, T.** See Saerndahl, E.
- Andreasen, P.** See Reilly, D.
- Andrews, A. T.**
Partial denaturation and renaturation of β -lactoglobulin at air-water interfaces. 272s
—; Mbafor, W.
Immobilization of enzymes to nylon film. 271s
- Angal, S.** See Chopra, R.; Koklitis, P. A.
- Angenent, G.** See Smeekens, S.
- Ani, M.** See Moshtaghie, A. A.
- Anthes, J. C.** See Billah, M. M.
- Aota, S.**
—; Nagai, T.; Olden, K.; Akiyama, S. K.; Yamada, K. M.
Fibronectin and integrins in cell adhesion and migration. 830
- Aoyama, Y.** See Yoshida, Y.
- Aplin, J. D.** See Behzad, F.
- Araki, H.** See Youdin, M. B. H.
- Arbuckle, N.** See Parker, M. G.
- Archer, B. U.**
—; Thompson, J. S.; Warne, P. J.
Lactobacillus cell walls and their arthritis-inducing effects in rats. 404s
- Arkley, M. M.** See McIntosh, N.
- Armstrong, F. A.** See Thomson, A. J.
- Arnemann, J.** See Wheeler, G. N.
- Arnolda, L.** See Leighton, B.
- Arrol, S.** See Mackness, M. I.
- Arscott, P. B.** See Bloomfield, V. A.
- Aruoma, O. I.** See Simpson, R. J.
- Asenjo, J. A.** See Lye, G. J.
- Ashley, R.** See Murray, D.; Spurway, T. D.
- Ashraf, G.** See Javed, M. H.
- Ashton, B. A.** See Jones, C. E.
- Ashton, I. P.**
—; Pallett, K. E.; Cole, D. J.; Harwood, J. L.
The effect of diflufenican on lipid metabolism in plants. 320s
- Asipu, A.**
—; Blair, G. E.
Regulation of myelin basic protein gene transcription in glial cells. 85s
- Askari, J. A.** See Mould, A. P.
- Atkinson, T.** See Jepras, R. I.; Rarity, J. G.
- Attwood, P. V.**
—; Graneri, B. D. L. A.
The biotin-carboxylation reaction of pyruvate carboxylase: the roles of acetyl-CoA, magnesium and biotin. 231s
- Aubert-Foucher, E.** See Van der Rest, M.
- Aulak, K. S.**
—; Smith, A. J.; Matthews, J. B.; Potts, A. J. C.; Perry, H.; Wilson, C.
Phosphoproteins of dentine extracellular matrix: silver colloid staining. 188s
- Aumailley, M.**
—; Specks, U.; Timpl, R.
Cell adhesion to type-VI collagen. 843
- Aunis, D.** See Sontag, J. M.
- Authi, K. S.** See Wheeler-Jones, C. P. D.
- Avara, V.** See Payne, R. H.
- Ayad, S.** See Bishop, P. N.; Brierley, V. H.
- Baba, A. S. H.**
—; Buttery, P. J.
Influence of peptides associated with the gastrointestinal tract on ovine perirenal fat lipogenesis. 309s
- Bacon, C. L.**
—; Fhaolain, I. N.; Jennings, P. V.; O'Cuinn, G.
Aminotripeptidase activity in *Lactococcus lactis* subsp. *cremoris* AM2. 35s
- Bacon, E.**
—; Girard, C.; De Barry, J.; Gombos, G.
Effects of methylazoxymethanol treatment on the GABAergic synaptosomes in the P2 fraction from developing mouse cerebellum. 431s
- Bacon, M.** See Ingledew, W. J.
- Bader, M. F.** See Sontag, J. M.
- Baggiolini, M.**
—; Kernen, P.; Deranleau, D. A.; Dewald, B.
Control of motility, exocytosis and the respiratory burst in human neutrophils. 55
- Bailey, A. J.** See Karwatowski, W. S. S.

- A**
 23187 calcium hippocampus 82s
Absorption
 ruminant feeding gastric inhibitory polypeptide 315s
Acanthamoeba
 fatty acid membrane temp 318s
Acetamidodeoxyglucopyranosylasparagine
 glycopeptide Merrifield synthesis 406s
Acetylcholine
 receptor autoimmunity myasthenia gravis review 180
 receptor lung 145s
 receptor muscle burn 191s
Acetylcholinesterase
 inhibitor algae 429s
AcetylCoA
 pyruvate carboxylase biotin carboxylation 231s
Acetylglucosaminidase
 A ovary cyst adenoma 213s
Acetylglucosaminyltransferase
 UDP acetylglucosamine mannoside cloning review 645
Acetylneuraminic acid
 thiobarbituric acid spectrophotometry 56s
Acetylneuraminic acid
 detn blood serum 56s
Acetyltransferase
 bladder epithelium 129s
Acid
 cholesterol ester hydrolase mammary lactation 335s
 org extn supported liq membrane 274s
Actin
 binding protein cell fraction 1135
 binding protein cytoskeleton review 1016
 binding protein platelet domain ligand 1133
 gene detection Plasmodium nested PCR 419s
 gene parotid gland isoprenaline 118s
 integrin linkage alpha actinin review 1065
 microfilament disruption Yersinia cytotoxin 1131
 microfilament metab cell review 1120
 mRNA polysome cytoskeleton 1108
 myosin nucleotide interaction review 423
 neutrophil subpopulation formylmethionylleucylphenylalanine 1129
Actinin
 alpha actin integrin linkage review 1065
Active
 site cytochrome oxidase EPR 259s
 site interaction macropain 291s
 site monoamine oxidase review 207
 site structure cytochrome oxidase 258s
Acute
 pancreatitis diagnosis phospholipase A2 blood 225s
 phase protein blood Crohn colitis 222s
Acytransferase
 dihydroipoate domain Bacillus 917
Adenoassocd
 virus inhibition HIV1 replication 438s
Adenoma
 intestine cysteine proteinase tumorigenicity 362s
 ovary cyst acetylglucosaminidase A 213s
Adenosine
 transport brush border kidney 323s
Adenosyldeceane
 pharmacol purine metabolic disorder 123s
Adenovirus
 class I antigen gene interferon 83s
 gene E1A downregulation H2K mouse 84s
Adenylate
 cyclase inhibitor adipocyte lipolysis desensitization 212s
 kinase gene lipopolysaccharide locus Haemophilus 631
Adhesion
 bacteria polymer hydrophobicity 69s
 cell collagen type VI review 843
 cell LDV integrin alpha4beta1 380s
 cell migration fibronectin integrin review 830
 cell protein review 1076
 tooth mesenchyme DMP protein 187s
Adhesive
 protein aorta fetus development 1072
Adipocyte
 lipolysis Gi protein desensitization 212s
Adipokinetic
 hormone inositol phosphate metabolite 104s
Adipose
 lipogenesis sheep gastrointestinal hormone 309s
 tissue chylomicron lipoprotein lipase 314s
ADP
 glucose synthetase regulation plant review 539
 platelet PGE1 schizophrenia polemic 155s
Adrenal
 chromaffin exocytosis calcium calpacitin 1085
 gland benzodiazepine acceptor protein mitochondria 11s
 medulla proteinase specificity chromaffin granule 249s
Adrenergic
 beta low d lipoprotein metabolite 41s
 receptor binding isoprenaline 357s
 receptor fibroblast mechanism 102s
 receptor G protein myometrium progesterone 181s
Adrenoceptor
 beta agonist protease skeletal muscle 214s
Adsorption
 lactoglobulin polystyrene latex 508
Affinity
 chromatog immobilized metal protein 387s
 liq chromatog serotonin reuptake 103
Age
 cypermethrin hydrolysis sexual dimorphism 303s
 dihydroxyvitamin D3 calcium hippocampus 82s
Aggregation
 biopolymer electrophoresis spectroscopy 486
 biopolymer laser light scattering 505
Aging
 collagen Bruch membrane eye 349s
 collagen cartilage 376s
Airway
 smooth muscle inositol tetrakisphosphate carbachol 76s
Albumin
 coumarin conjugate prepn 57s
 Kashmir hydroxyazobenzenebenzoate binding mechanism 333s
Alc
 dehydrogenase inhibition liver cimetidine famotidine 71s
 protein formation digestive gland 165s
 protein formation skeletal muscle 167s
Aldolase
 allothreonine threonine liver 346s
Aldose
 reductase mRNA basement membrane diabetes 367s
Algae
 cAMP phosphodiesterase inhibitor acetylcholinesterase 429s
Alginate
 conformation rigidity 494
 sodium mol mass detn 510
Alignment
 protein sequence interpretation review 523
Alligator
 microsome activation benzopyrene 746
Allosuppressor
 translation Saccharomyces gene SAL4 protein 281s
Allothreonine
 aldolase liver 346s
Allylamine
 deriv fungicide squalene epoxidase review 774
Almond
 beta glucosidase immobilization nylon 271s
Altitude
 high serum lipid 135s
Alzheimer
 disease chromosome 21 brain nerve 200s
 disease herpes virus DNA brain 122s
Amine
 oxidase semicarbazide sensitive review 228
 tertiary monoamine oxidase review 211
Amino
 acid feeding lung protein formation 166s
 acid neurotransmitter reuptake review 92
 acid plasma fatigue 358
 acid repetition protein sequence 517
 acid residue dopaminergic D1 receptor 142s
 acid sulfur neurotransmitter release 3s
 acid transport neurotransmitter 5s
Aminoacridine
 guanidinobenzoate protection tumor cell surface 427s
Aminolevulinic acid
 formation pea glutamate semialdehyde aminotransferase 319s
Aminoamidase
 A Lactococcus 273s
 dipeptidyl brain cytoplasm 37s
 Helix 30s

- Helix muscle 295s
 pyroglutamate nerve culture 36s
 synovial fluid rheumatoid arthritis 215s
 Aminotransferase
 aspartate isoenzyme heterogeneity stability cytoplasm 74s
 glutamate semialdehyde kinetics pea 319s
 Aminotriazole
 inhibition catalase hydrogen peroxide 443s
 Amnion
 hemidesmosome alpha6beta4 integrin 381s
 lactate dehydrogenase isoenzyme 21s
 Amylase
 alpha maltooligosaccharide producing Bacillus 16s
 ferm Penicillium 270s
 gene parotid gland isoprenaline 118s
 isoenzyme germination wheat aging 360s
 Amyloglucosidase
 ferm Penicillium 270s
 Anabolism
 catabolism microorganism growth energetics education 972
 Anacystis
 membrane cytochrome oxidase c554 c 252s
 Anemia
 fetus superoxide dismutase erythrocyte 227s
 immune hemolytic autoantibody methyl dopa review 183
 Angiotensin
 receptor intestine epithelium 440s
 Animal
 cell polysome insulin 1136
 Anion
 channel cation transport brain microsome 255s
 channel pH heart mitochondria 254s
 group heparin calcium binding 393s
 transport eye review 849
 Ankyrin
 diversity brain review 1034
 Anoxia
 heart mitochondria complex I 261s
 Antibiotic
 microorganism food review 694
 Antibody
 albumin coumarin conjugate 57s
 antigen aggregation light scattering 489
 antiidiotypic glutamate receptor 143
 antiidiotypic hormone receptor 138
 antiidiotypic receptor review 147
 CFTR protein peptide cystic fibrosis 247s
 GABA receptor review 124
 intracellular antigen autoimmune disease review 159
 malate dehydrogenase erythrocyte 232s
 monoclonal integrin subunit immunogen 361s
 monoclonal motor neuron 338s
 monoclonal nicotinic receptor review 115
 monoclonal troponin I heart 161s
 synaptosome neurotransmitter review 87
 Antidepressant
 binding serotonin transporter 99
 Antiestrogen
 review 899
 Antigen
 antibody aggregation light scattering 489
 CD4 CD8 T lymphocyte diabetes 187
 class I gene interferon adenovirus 83s
 histocompatibility oncogene review 291
 histocompatibility protein secretion pathway 249
 human cartilage T cell response 378s
 H2Kb histocompatibility mouse gene regulation 84s
 intracellular antibody autoimmune disease review 159
 malaria sequence Plasmodium review 525
 membrane endocrine neuronal review 79
 microvascular endothelium omentum 168s
 processing presentation B lymphocyte 263
 receptor phosphatidylinositol thymocyte apoptosis 90s
 signal transduction natural killer lymphocyte 265
 Antiidiotypic
 antibody glutamate receptor 143
 antibody hormone receptor 138
 antibody receptor review 147
 Antiinflammation
 bromophenacyl bromide inhibition microtubule assembly 1140
 Antiinflammatory
 agent microtubule assembly 170s
 taurine Hepes respiratory burst 73
 Antioxidant
 therapy pancreatitis methionine metab 310s
 Antiproteinase
 decidualization assoc protein 300s
 Antisense
 RNA immunodeficiency virus inhibition 437s
 Antiserum
 probe dopaminergic D2 receptor 143s
 Aorta
 adhesive protein fetus development 1072
 autoradiog calcium binding protein 53s
 Apolipoprotein
 B blood serum prediction 211s
 formation spleen 325s
 Apoptosis
 thymocyte TCR phosphatidylinositol 90s
 Arachidonate
 long term potentiation review 391
 metab nerve endorphin dipeptide 149s
 metab neuron signaling review 387
 NADPH oxidase proton channel activation 67
 neg feedback phospholipid methylation leukocyte 308s
 pituitary calcium protein kinase 115s
 release bradykinin dorsal root ganglion 411
 Archachatina
 digestive enzyme 334s
 Arginine
 vasopressin detn bioassay 124s
 Armillaria
 metalloprotease cDNA cloning 45s
 Arom
 zipper trimerization model collagen 365s
 Artery
 glycosaminoglycan sulfonation denodethelialization 435s
 intima lipoprotein atherosclerosis review 235
 Arthritis
 collagen synovial fluid cartilage degrdn 375s
 Lactobacillus cell wall teichoate 404s
 osteo collagen subtype cartilage 379s
 rheumatoid aminopeptidase synovial fluid 215s
 Articular
 chondrocyte iodoacetate 363s
 Ascorbate
 isoascorbate skin fibroblast collagen 48s
 Asparagine
 glycopeptide Merrifield synthesis 406s
 linked glycoprotein formation glycosyltransferase review 642
 Aspartate
 aminotransferase isoenzyme heterogeneity stability cytoplasm 74s
 Aspergillus
 cloning secretion bovine chymosin 681
 Assocn
 const detn heparin cation 392s
 protein light scattering 489
 Asthma
 diphosphoglycerate erythrocyte 407s
 Atherosclerosis
 artery intima lipoprotein review 235
 Atom
 heavy deriv protein mutagenesis 221s
 ATP
 actin myosin interaction review 423
 Clp protease activation subunit interaction 719
 heart NMR spectrometry perfusion 209s
 hepatocyte membrane bleb eicosanoid 230s
 light amplification system 160s
 nerve terminal acetylcholine 83
 ATPase
 membrane polarized epithelium review 1055
 muscle rigor mortis 38s
 phosphorylation domain sarcoplasmic reticulum 205s
 AtT20
 cell CRF processing 246s
 Authority
 perspective regulatory implication 465
 Autoantibody
 complement C1 inhibitor edema 176
 immune hemolytic anemia methyl dopa review 183
 Autoantigen
 biliary cirrhosis review 196
 Autoimmune
 disease antibody intracellular antigen review 159
 disease drug review 153
 Autoimmunity
 acetylcholine receptor myasthenia gravis review 180
 heat shock protein review 171
 Autoradiog
 calcium binding protein aorta 53s
 Avocado
 lipid metab diflufenican 320s
 Axon
 transport protein Semliki Forest virus 8s
 Aziridine
 identification Salsola mass spectrometry copy 432s
 Azole
 fungicide Saccharomyces sterol 796
 fungicide sterol demethylase Candida review 782
 fungicide sterol demethylase structure review 778
 A60
 protein cytoskeleton nerve review 1042

- B**
 cell Ig interleukin 4 receptor signaling 272
 lymphocyte antigen processing presentation 263
 lymphocyte interleukin 4 signal review 287
- Bacillus**
 lipamide dehydrogenase binding domain E2 917
 maltooligosaccharide producing alpha amylase 16s
 plasmid stability glucose affinity 32s
- Bacteria**
 adhesion polymer hydrophobicity 69s
 DMSO nitrate reductase review 605
 electron transfer NADH cytochrome review 581
 hemolysin P glycoprotein superfamily review 252
 hydrogenophilic methanogenic detn 70s
 iron sulfur cluster ferredoxin 594
 lactate peptidase flavor peptide review 685
 lactic acid antibiotic review 694
 lactic acid phage resistance review 675
 oligosaccharide mass spectrometry review 922
 photosynthesis transhydrogenase proton translocation review 573
 phototropic lab expt 976
 quinol cytochrome oxidase review 608
 respiratory electron transport lab expt 976
 thermophilic sitosterol degrdn 52s
- Bacterioferritin**
 conformation quaternary structure Escherichia 337s
- Barley**
 fructosyltransferase fructan formation 565
 sulfur poor prolamin review 528
- Basement**
 membrane collagen laminin mRNA hyperglycemia 369s
 membrane component mRNA kidney diabetes 367s
- Basic**
 fibroblast growth factor heart development 79s
- Basolateral**
 membrane EGF receptor enterocyte 307s
- Beaded**
 fibril macromol eye review 868
- Benzodiazepine**
 acceptor protein mitochondria adrenal gland 11s
 GABA receptor review 129
- Benzopyrene**
 binding protein liver nucleus 182s
 microsome activation Alligator 746
- Beta**
 adrenergic cholesterologenesis lipoprotein metab 41s
 adrenoceptor agonist protease skeletal muscle 214s
- Betaine**
 homocysteine methyltransferase detn urine NMR 402s
- Bicarbonate**
 pH buffer muscle exercise 207s
 transport eye review 849
- Bile**
 acid biodegrdn 52s
 acid colon diversion Crohn disease 223s
 acid conjugated hamster 171s
 acid extn feces 201s
 acid ileum feces rhythm 224s
 acid ileum lumen colon diversion 226s
- Biliary**
 cirrhosis autoantigen review 196
- Bilirubin**
 protoporphyrin liver heme oxygenase 441s
- Binding**
 heparin dication IR 394s
- Bioassay**
 arginine vasopressin detn 124s
 proinsulin detn plasma 55s
- Biochem**
 education bioenergetics 399s 400s
- Biodegrdn**
 bile acid plant sterol 52s
- Bioenergetics**
 biochem education 399s 400s
 life science education 967
- Biol**
 oxidative phosphorylation proton motive force education 982
- Biomol**
 diffusion detn gel Rayleigh scattering 483
 molar mass detn 486
- Biopolymer**
 differential light scattering liq chromatog 485
 gel chromatog light scattering 505
 gelation light scattering 484
 light scattering review 478
 mass detn light scattering 486
 mass spectroscopy computer program 957
 microelectrophoresis spectroscopy 486
 mol mass conformation review 493
 soln diffusion review 481
- Biosensor**
 calorimetric review 26
 clin data analysis review 11
 dielec review 21
 electrochem extracorporeal review 5
 hormone receptor review 32
 immunol optical review 18
 intracorporeal review 9
 microbe environmental pollution monitoring 15
 nucleic acid review 39
 org phase review 28
 piezoelec review 44
 review 1
- Biotin**
 carboxylation pyruvate carboxylase 231s
- Bird**
 eye vitreous macromol review 868
 pesticide toxicity review 741
- Bladder**
 epithelium acetyltransferase 129s
 osmolality toad bioassay vasopressin 124s
- Bleb**
 membrane hepatocyte ATP eicosanoid 230s
- Blood**
 acute phase protein Crohn colitis 222s
 fucosylated haptoglobin inflammatory bowel disease 264s
 lactate exercise forearm myopathy diagnosis 216s
 lactate exercise glucose 132s
 phospholipase A2 acute pancreatitis diagnosis 225s
 platelet membrane serotonin transporter 95
 platelet serotonin transporter review 112
 serum acetylneuraminic acid detn 56s
 serum apolipoprotein B prediction 211s
 serum paraoxonase specificity 304s
 tissue oxygenation near IR spectroscopy 514
- Blotting**
 electrophoresis cell collagen interaction 370s
- Bombesin**
 inositol phosphate fibroblast desensitization 101s
 receptor phospholipid metab 321
- Bone**
 lysozyme sequence 374s
- Bovine**
 chymosin cloning secretion Aspergillus 681
- Bowel**
 inflammatory disease muscle protein formation 185s
 inflammatory disease protein formation intestine 186s
- Bradykinin**
 arachidonate release dorsal root ganglion 411
- Brain**
 anion channel cation transport microsome 255s
 ankyrin diversity review 1034
 cytoplasm dipeptidyl aminopeptidase 37s
 expression chromosome 21 gene 200s
 glutamatergic metabotropic receptor calcium 154s
 herpes virus DNA Alzheimer disease 122s
 inositol polyphosphate receptor 151s
 lactate metab lipogenesis newborn 141s
 lipogenesis lactate newborn 140s
 nerve iron inositol hexakisphosphate 152s
 neurokinin A receptor 13s
 neurotensin receptor structure activity 12s
 nicotinic receptor review 121
 oxygenation fetus head 514
 phosphatidylinositol metab signal transduction 156s
 protein kinase phorbol ester 397
 purinergic A2 receptor 7s
 rat protein kinase C 23s
 serotonin transporter purifn characterization 99
 sulfur contg amino acid transport 5s
- Branched**
 chain amino acid fatigue 358
- Branching**
 size shape biopolymer review 493
- Breast**
 tumor urokinase plasminogen activator mRNA 44s
- Bromophenacyl**
 bromide inhibition microtubule assembly antiinflammation 1140
 bromide microtubule assembly 170s
- Bruch**
 membrane collagen eye aging 349s
- Brush**
 border kidney adenosine transport 323s
- Burn**
 acetylcholine receptor muscle 191s
- Cadherin**
 I II III desmosome review 1060
- Calcitonin**
 gene related peptide muscle nerve 134s
- Calcium**
 binding heparin deriv polarimetry 393s
 binding heparin detn polarimetry 391s
 binding protein aorta autoradiog 53s
 binding protein liq chromatog 387s
 brain glutamatergic metabotropic receptor 154s
 cell culture proteinase release 26s

- cytoskeleton calpactin exocytosis 1085
 flux fluorometry Fluo 3 183s
 heparin binding delocalized 390s
 hippocampus cytosol vitamin D me= tabolite 82s
 inositol trisphosphate neuroblastoma 424s
 lens cytoskeleton degrdn 1148
 mammary Golgi membrane calcium transport 194s
 mobilization hepatocyte inositol phosphate 206s
 mobilization neuroblast carbachol 97s
 monocyte thrombin 89s
 muscle contraction lithium magnesium 411s
 nerve endorphin dipeptide 149s
 neuroblastoma histamine receptor 6s
 pars tuberalis melatonin 93s
 phorbol dibutyrate protein kinase C 150s
 pituitary arachidonate protein kinase 115s
 pituitary inositol phosphate 116s
 platelet aggregation collagen familial hypercholesterolemia 173s
 pyruvate dehydrogenase heart mito= chondria 138s
 release halothane sarcoplasmic reticu= lum 355s
 synaptosome excitatory amino acid 148s
 thromboxane receptor endothelium 99s
 transport calcium mammary Golgi membrane 194s
 transport inositol trisphosphate pha= gocyte endotoxin 95s
 transport neutrophil lipoxin A4 78s
Calf
 feeding absorption gastric inhibitory polypeptide 315s
Calmidazolium
 calmodulin binding NMR 430s
Calmodulin
 calmidazolium binding NMR 430s
 lucerne signal transduction 190s
Calorimetric
 biosensor review 26
Calpactin
 cytoskeleton calcium exocytosis 1085
Calpain
 II subunit ubiquitination smooth muscle 410s
 lens cytoskeleton degrdn 1148
cAMP
 cGMP analog superoxide formation neutrophil 59
 heart catecholamine 276s
 phenylalanine hydroxylase phospho= rylation kidney 229s
 phosphodiesterase inhibitor acetyl= cholinesterase algae 429s
 protein kinase II complex liver 1161
 protein kinase multiple form human 22s
 protein kinase regulatory subunit complex 1163
 relaxin uterus contraction inhibition 356s
Cancer
 acetylneuraminic acid 56s
 colorectal bile salt hamster 171s
 integrin review 835
Candida
 azole fungicide sterol demethylase review 782
 translation elongation factor EF3 279s
Capillary
 electrophoresis mass spectroscopy peptide protein 943
Caprogen
 lipid peroxidn sperm cattle 158s
Capsule
 Escherichia gene organization regula= tion review 628
 polysaccharide Escherichia review 623
Carbachol
 inositol phosphate binding neuroblast 97s
 inositol tetrakisphosphate airway smooth muscle 76s
Carbamoyl
 pyridoxal phosphate metab liver 344s
Carbohydrate
 diet cycling exercise metab 362
Carboxylase
 pyruvate biotin carboxylation 231s
Carboxylate
 vibration heparin dication complex 394s
Carboxylation
 biotin pyruvate carboxylase 231s
Carboxylesterase
 mosquito insecticide resistance 305s
 multiple form liver 306s
Carboxyphenylpropylpeptide
 inhibitor thimet oligopeptidase review 290s
Carcinoma
 intestine cysteine proteinase tumori= genicity 362s
 ovary cisplatin cytotoxicity mechanism 126s
 squamous mouth growth factor recep= tor 189s
 X ray cisplatin sensitivity 121s
Carnitine
 ester radiolabeled prepn 174s
Cartilage
 antigen human T cell response 378s
 chondroitin sulfate proteoglycan viscoelasticity review 493
 collagen aging 376s
 collagen subtype osteoarthritis 379s
 cysteine protease secretion pressure 396s
 degrdn collagen synovial fluid arthri= tis 375s
 glycosaminoglycan UDP sugar oxygen 364s
 proteoglycan deglycosylation T lym= phocyte 386s
 vitreous body type IX collagen 351s
Casein
 micelle suspension light scattering 489
Catabolism
 anabolism microorganism growth energetics education 972
Catalase
 detn retina herbicide 443s
Cataract
 crystallin interaction review 853
Catechol
 methyltransferase placenta 20s
Catecholamine
 cAMP protein formation heart 276s
 glutamine metab muscle 130s
Cathepsin
 B Fasciola infectivity Ig cleavage 27s
 B multiple form osteoclastoma 286s
Cation
 binding heparin detn polarimetry 392s
 divalent galactosidase Rhizobium 19s
 transport anion channel brain micro= some 255s
Cattle
 collagen IV gene cloning PCR 366s
 lipid peroxidn tocopherol selenium deficiency 61s
 sperm lipid peroxidn Caprogen 158s
cDNA
 human fucosyltransferase ligand ELAM1 649
 metalloprotease Armillaria cloning 45s
CD2
 antigen signal natural killer lympho= cyte 265
CD4
 antigen T lymphocyte diabetes 187
CD8
 antigen T lymphocyte diabetes 187
Cell
 actin microfilament metab review 1120
 adhesion collagen type VI review 843
 adhesion LDV integrin alpha4beta1 380s
 adhesion migration fibronectin integ= rin review 830
 adhesion protein review 1076
 collagen interaction electrophoresis blotting 370s
 collagen like glycoprotein 385s
 culture proteinase release calcium 26s
 differentiation growth factor receptor carcinoma 189s
 differentiation inositol transport 86s
 differentiation protein kinase phos= phatase review 315
 D2 long form receptor 146s
 fraction actin binding protein 1135
 growth cytoskeleton PABP protein mRNA 1099
 NMR enzyme structure function review 997
 polysome mRNA distribution 1108
 polysome protein insulin 1138
 protein RNA distribution transport review 1094
 ultrastructure glycolysis organization review 986
 vol muscle lactate release 198s
 wall Lactobacillus arthritis teichoate 404s
Cellular
 function cytoskeleton role 1015
Centrifugation
 protein sciatic nerve 169s
Cereal
 sulfur poor prolamin structure review 528
Cerebellar
 nerve inositol hexakisphosphate mag= nesium 152s
Cerebellum
 GABAergic synaptosome development methylazoxymethanol 431s
 protein multiple sclerosis 179s
CFTR
 protein peptide antibody cystic fibro= sis 247s
cGMP
 cAMP analog superoxide formation neutrophil 59
 protein kinase conformation lung 163s
 protein kinase isoenzyme conforma= tion prediction 162s
Chaetomium
 protein fermn wheat straw 68s
Channel
 anion cation transport brain micro= some 255s
 anion pH heart mitochondria 254s
 proton NADPH oxidase activation arachidonate 67
Cheese
 flavor peptide Lactococcus peptidase review 685
 starter culture proteinase gene review 670

- Chicken
 cypermethrin hydrolysis sexual di= morphism 303s
 erythrocyte lithium sodium counter= transport 408s
 fibroblast transformation lipofectin plasmid pSV2 328s
 GABAergic receptor mRNA alterna= tive splicing 9s
- Chiral
 drug metab review 456
 drug sepn liq chromatog review 454
- Chirality
 clin pharmacol review 460
 drug development review 443 472
- Chloride
 serotonin transporter platelet mem= brane 95
 transport eye review 849
 transport intestine fat diet 241s
- CHO
 DHFR cell serotonergic 51a recep= tor 144s
- Cholecystokinin
 receptor antagonist review 913
- Cholesterol
 ester hydrolase mammary lactation 335s
 formation beta adrenergic 41s
 formation intestine insulin diabetes 65s
 serum apolipoprotein B 211s
 serum high altitude exercise 135s
- Cholesterologenesi
 beta adrenergic lipoprotein metab 41s
- Choline
 release glial culture 153s
- Cholinergic
 nerve terminal 83
- Chondrocyte
 articular iodoacetate 363s
- Chondroitin
 sulfate proteoglycan viscoelasticity cartilage review 493
- Chorion
 lactate dehydrogenase isoenzyme 21s
- Choroidal
 effusion syndrome eye sclera proteo= glycan 350s
- Chromaffin
 adrenal exocytosis calcium calpactin 1085
 cell exocytosis protein review 1090
 granule proteinase specificity adrenal medulla 249s
- Chromatog
 affinity liq serotonin reuptake 103
 gel biopolymer 505
 gel mass detn biopolymer 486
 gel mol mass Pronova 510
 liq biopolymer differential light scat= tering 485
 liq calcium binding protein 387s
 liq chiral drug sepn review 454
 liq glutathione transferase isoenzyme Mugil 302s
 protein light scattering detector 487
 size exclusion biopolymer review 493
- Chromatophore
 electron transport cytochrome com= plex Rhodobacter 588
- Chromosome
 Y myoblast implantation female muscle 195s
 21 gene expression brain nerve 200s
- Chylomicron
 lipoprotein lipase adipose tissue 314s
 remnant uptake liver 326s
- Chymosin
 A gene cloning Trichoderma 663
 bovine cloning secretion Aspergillus 681
- insulin fusion gene Trichoderma 248s
 mutant engineering milk coagulation 265s
 pH profile site specific mutation 266s
 specificity modification site specific mutation 267s
- Chymotrypsin
 cinnamoyl hydrocinnamoyl FTIR isotope shift 159s
- Cigaret
 smoking diphosphoglycerate erythro= cyte 407s
- Cimetidine
 famotidine alc dehydrogenase inhib= ition liver 71s
- Cinnamoyl
 chymotrypsin FTIR isotope shift 159s
- Circadian
 oscillation Drosophila period gene review 533
- Circular
 DNA proton correlation spectroscopy 511
- Cirrhosis
 biliary autoantigen review 196
- Cisplatin
 cytotoxicity ovary carcinoma mecha= nism 126s
 sensitivity carcinoma X ray 121s
- Class
 I antigen gene interferon adenovirus 83s
- Clenbuterol
 protease skeletal muscle 214s
- Clin
 data analysis biosensor review 11
 pharmacol chirality review 460
- Cloning
 Armillaria metalloprotease cDNA 45s
 cattle collagen IV gene PCR 366s
 chymosin A gene Trichoderma 663
 chymosin mutant Trichoderma 265s
 Erysiphe demethylase gene 799
 gene collagenase pig 288s
 gene proteinase HIV1 virus 298s
 plasmid Rous sarcoma virus promoter 139s
 secretion bovine chymosin Aspergillus 681
 UDP acetylglucosamine mannoside acetylglucosaminyltransferase review 645
- Clostridium
 toxin cell morphol 1154
- Clp
 protease activation subunit interaction ATP 719
- CoA
 ester radiolabeled prepn 174s
 hydroxymethylglutaryl biosynthesis plant enzyme 164s
- Coating
 poloxamine microsphere Kupffer cell 329s
- Cobalt
 hexamine DNA condensation 496
- Cojunctival
 mucin formation culture 352s
- Colchicine
 liver glycogen formation 1125
- Colitis
 Crohn acute phase protein blood 222s
- Collagen
 analysis osteogenesis imperfecta type 3 382s
 Bruch membrane eye aging 349s
 cartilage aging 376s
 cell interaction electrophoresis blot= ting 370s
 detn dye binding assay 389s
- fibril assocd structure function review 820
 fibril shape form regulation 808
 fibrosis inhibitor oxalylglycine deriv structure 812
 IV gene cattle cloning PCR 366s
 like glycoprotein cell 385s
 microfibril skin embryo 383s
 mRNA basement membrane hyper= glycemia 369s
 platelet aggregation calcium familial hypercholesterolemia 173s
 proteoglycan cornea review 877
 proteoglycan interaction keratitis dog 353s
 recognition site integrin platelet 439s
 retinal pericyte culture Matrigel 368s
 skin fibroblast ascorbate isoascorbate 48s
 subtype cartilage osteoarthritis 379s
 synovial fluid cartilage degrdn arthri= tis 375s
 type IX vitreous body cartilage 351s
 type VI cell adhesion review 843
 type VI hyaluronan skin 384s
 X gene sequence human 804
 X VIII trimerization folding 365s
- Collagenase
 gene pig cloning sequence 288s
 osteoblast culture 59s
 purifn neutrophil 62s
 TIMP complex ELISA 287s
- Colloid
 drug carrier particle 502
- Colon
 diversion bile acid ileum lumen 226s
 diversion Crohn disease bile acid 223s
 mucin glycosylphosphatidylinositol anchor 220s
 mucosa human microperoxisome isolation 425s
 tumor guanidinobenzoatase protease isoenzyme 236s
- Colony
 stimulating factor superoxide mono= cyte 237s
- Colorectal
 cancer bile salt hamster 171s
- Committee
 member perspective regulatory impli= cation 463
- Company
 perspective regulatory implication 467
- Complement
 C1 inhibitor autoantibody edema 176
 C1q trimerization folding 365s
- Complex
 I mitochondria heart ischemia anoxia 261s
- Computer
 design drug site directed review 883
 program mass spectroscopy biopolym= er 957
- Cone
 growth microtubule 1080
- Conformation
 bacterioferritin Escherichia 337s
 biopolymer review 493
 glycopeptide freedom water 405s
 muscle protein detn review 507
 prediction cGMP protein kinase isoenzyme 162s
 protein kinase cGMP lung 163s
 rigidity hyaluronate alginate 494
 stability decorin protein core skin 377s
- Conjugate
 albumin coumarin prepn 57s
- Conjugated
 bile acid hamster 171s

- Copper**
intestine metallothionein formation 283s
liver fish polluted estuary 301s
- Core**
protein decorin conformation stability skin 377s
- Corn**
starch granule structure organization 551
- Cornea**
keratan sulfate formation oxygen 354s
proteoglycan collagen review 877
- Correlation**
proton spectroscopy circular DNA 511
- Coumarin**
albumin conjugate prepn 57s
- Countertransport**
lithium sodium erythrocyte vertebrate 408s
- Couplet**
hepatocyte purifn use 109s
- Coxsackie**
B4 virus pancreas preproinsulin mRNA 398s
- Creatine**
heart energy metab senescence 208s
kinase energy metab 1010
kinase heart review 1006
kinase lactate dehydrogenase pancu=ronium vecuronium 423s
kinase leakage pancuronium vecuronium 336s
kinase stability thermal inactivation 66s
transport myoblast 172s
- CRF**
processing AtT20 cell 246s
- Crohn**
colitis acute phase protein blood 222s
disease blood fucosylated haptoglobin 264s
disease colon diversion bile acid 223s
disease elemental diet plasma lipid 322s
- Crop**
plant fructan quality formation review 569
- Crystallin**
interaction eye review 853
- Crystn**
lactate dehydrogenase isoenzyme heart 219s
- Culture**
calcium cell proteinase release 26s
cojunctival mucin formation 352s
fibroblast umbilical cord 29s
osteoblast collagenase 59s
retinal pericyte collagen Matrigel 368s
- Cyclase**
adenylate inhibitor adipocyte lipolysis desensitization 212s
- Cyclic**
nucleotide phosphodiesterase kinetics review 397s
- Cycling**
exercise metab carbohydrate diet 362
- Cypermethrin**
hydrolysis chicken sexual dimorphism 303s
resistance *Heliothis* enzyme 762
- Cysteate**
transport brain cell 5s
- Cysteine**
protease cartilage secretion pressure 396s
protease sweet protein *Thaumatococcus arifolius* 297s
proteinase intestine adenoma carcino=ma tumorigenicity 362s
sulfinate transport brain 5s
- Cystic**
fibrosis CFTR protein peptide anti=body 247s
- Cytochalasin**
liver glycogen formation 1125
- Cytochrome**
bc complex dimer ubiquinol Rhodo=bacter 588
bf MOA stilbene effector photosystem 263s
c NADH electron transfer review 581
o aa3 oxidase review 613
oxidase active site EPR 259s
oxidase active site structure 258s
oxidase bacteria review 608
oxidase c554 c membrane *Anacystis* 252s
oxidase heterogeneity formate binding 262s
oxidase ligation oxidn state review 617
P 450 14DM model *Saccharomyces* 793
P450 azole fungicide structure review 782
P450 sterol formation *Neurospora* mutation 799
- Cytoplasm**
aspartate aminotransferase isoenzyme heterogeneity stability 74s
dipeptidyl aminopeptidase brain 37s
proteolysis *Saccharomyces* review 724
- Cytosine**
guanine domain DNA dynamics structure 497
- Cytoskeleton**
actin binding protein review 1016
calpactin calcium exocytosis 1085
degrdn lens calcium calpain 1148
dynamics neutrophil priming inositol polyphosphate 1048
membrane protein erythrocyte review 1039
muscle cell 1116
nucleoskeleton macromol distribution transport review 1094
PABP protein mRNA cell growth 1099
polysome mRNA 1108
pp60src platelet aggregation 1150
protein p103 A60 nerve review 1042
protein structure function review 1028
receptor G protein neutrophil 1127
ribosome mRNA review 1103
role cellular function 1015
- Cytosol**
calcium hippocampus vitamin D metabolite 82s
fumarase isoenzyme mitochondria yeast 18s
liver glutathione transferase isoenzyme HPLC 302s
- Cytotoxicity**
cisplatin ovary carcinoma mechanism 126s
nitromin DNA damage hypoxia 127s
- Cytotoxin**
Clostridium cell morphol 1154
Yersinia actin microfilament disruption 1131
- C554**
c cytochrome oxidase membrane *Anacystis* 252s
- Data**
clin analysis biosensor review 11
- Decidualization**
assocd glycoprotein structure uterus 299s
assocd protein antiproteinase lympho=cyte proliferation 300s
- Decorin**
protein core conformation stability skin 377s
- Deendothelialization**
artery glycosaminoglycan sulfonation 435s
- Deglycosylation**
cartilage proteoglycan T lymphocyte 386s
- Degrn**
protein ubiquitin pathway review 726
- Dehydrogenase**
alc inhibition liver cimetidine famotidine 71s
lactate isoenzyme sepn heart 219s
lactate isoenzyme uterus 21s
lactate NADH detection 14s
malate erythrocyte 232s
malate heterogeneity mitochondria inner membrane 73s
malate isoenzyme detn 54s
NADP NAD structure catalysis mod=eling 576
oxoglutarate complex homol protein X 403s
pyruvate calcium heart mitochondria 138s
pyruvate E3 binding domain E2 917
steroid A ring menaquinone 7 64s
xanthine domain role *Drosophila* 260s
- Deletion**
rat prolactin gene promoter 42s
- Demethylase**
gene cloning *Erysiphe* 799
sterol azole fungicide *Candida* review 782
sterol azole fungicide structure review 778
sterol mol model *Saccharomyces* 793
- Denaturation**
protein compactness 488
renaturation lactoglobulin pH air water 272s
- Denatured**
enzyme refolding mitochondria 204s
- Dentin**
extracellular matrix phosphoprotein ontogeny 188s
morphogenetic protein mesenchyme adhesion 187s
- Deoxycholate**
degrdn *Pseudomonas* immobilization 52s
- Dermatan**
sulfate proteoglycan II folding domain 377s
sulfate proteoglycan review 866
- Desferrioxamine**
transport kidney 217s
- Desmosome**
cadherin I II III review 1060
- Desorption**
laser ionization oligosaccharide review 922
- Detector**
light scattering protein chromatog 487
- Deuteration**
protein elongation factor *Escherichia* 284s
- Development**
adhesive protein aorta 1072
basic fibroblast growth factor heart 79s
dentin extracellular matrix phospho=protein 188s
methylazoxymethanol GABAergic synaptosome cerebellum 431s
- Diabetes**
antigen CD4 CD8 T lymphocyte 187
basement membrane component mRNA kidney 367s
cholesterol formation intestine insulin

- 65s
 Coxsackie B4 virus insulin mRNA 398s
 Gi function liver 80s
 glycogen synthesis muscle NMR 992
- Diacylglycerol
 fibroblast EGF receptor 108s
 formation stomach EGF 107s
- Dibutyrate
 phorbol protein kinase C calcium 150s
- Dication
 heparin binding IR 394s
- Dielectric
 biosensor review 21
- Diet
 fatty acid lithium absorption intestine 422s
- Differential
 light scattering biopolymer liq chromatog 485
- Differentiation
 cell growth factor receptor carcinoma 189s
 HL60 protein phosphorylation review 315
 neutrophil phosphoinositide superoxide endotoxin 96s
- Diffusion
 biopolymer polymer review 481
 detn biomol gel Rayleigh scattering 483
 dynamics DNA oligonucleotide soln 498
- Diflufenican
 fatty acid synthetase 320s
- Digestive
 enzyme Archachatina 334s
 gland protein formation alc 165s
- Diglyceride
 liver proliferation 99s
 metab rape seed development 243s
- Dihydrofolate
 reductase methotrexate binder Saccharomyces 192s
 reductase uromastix 193s
- Dihydrolipoate
 acyltransferase domain Bacillus 917
- Dihydroxyvitamin
 D3 calcium hippocampus age 82s
- Dimethyl
 sulfoxide reductase bacteria review 605
- Dimethylglycine
 detn betaine homocysteine methyltransferase urine 402s
- Dipeptidyl
 aminopeptidase brain cytoplasm 37s
- Diphosphoglycerate
 erythrocyte asthma cigaret smoking 407s
- Disease
 health extracellular matrix preface 803
 immune complex drug review 164
- Dismutase
 superoxide erythrocyte fetus hypoxia anemia 227s
- Divalent
 metal cation galactosidase Rhizobium 19s
- DMP
 protein adhesion tooth mesenchyme 187s
- DMSO
 reductase bacteria review 605
- DNA
 circular proton correlation spectroscopy 511
 condensation hexamine cobalt 496
 damage nitromin hypoxia cytotoxicity 127s
 dynamics structure guanine cytosine domain 497
 formation mammal cell UV laser 119s
 herpes virus brain Alzheimer disease 122s
 oligonucleotide diffusion dynamics soln 498
 probe Listeria polymerase chain reaction 698
 thymine dimer UV ELISA 442s
- DNase
 Pseudomonas 40s
- Dog
 keratitis proteoglycan collagen interaction 353s
 TIMP proteinase inhibitor 372s
- Dopaminergic
 D1 receptor amino acid residue 142s
 D2 receptor antiserum probe 143s
 D2 receptor cell 146s
- Doppler
 laser microelectrophoresis biopolymer 486
- Dorsal
 root ganglion arachidonate release bradykinin 411
- Drosophila
 period gene circadian oscillation review 533
 xanthine dehydrogenase domain role 260s
- Drug
 autoimmune disease review 153
 binding protein Overhauser effect 430s
 design site directed computer review 883
 development chirality review 443
 472
 electrophoresis spectroscopy 486
 immune complex disease 164
 metab chiral review 456
 Parkinsons disease monoamine oxidase review 224
 resistance tumor xray 278s
 screening nucleus hormone receptor review 894
- Dye
 binding assay collagen detn 389s
 binding assay soluble elastin detn 388s
- Dynamics
 diffusion DNA oligonucleotide soln 498
- D2
 dopaminergic receptor cell 146s
- Edema
 complement C1 inhibitor autoantibody 176
- EF3
 translation elongation factor yeast 279s
- EGF
 fibroblast phospholipase D 108s
 glycogen formation hepatocyte 420s
 lipogenesis adipose sheep 309s
 receptor enterocyte basolateral membrane 307s
 stomach diacylglycerol formation 107s
- Eicosanoid
 ATP hepatocyte membrane bleb 230s
 nerve growth factor neuron 385
 T lymphocyte 88s
- eIF
 4E ribosome complex heme kinase 282s
- Elastase
 neutrophil elastin lung 294s
- Elastin
 lung neutrophil elastase 294s
 mol biol pathol review 824
 soluble detn dye binding assay 388s
- Elec
 quasi light scattering microbiol 499
- Electrochem
 biosensor extracorporeal review 5
- Electrode
 bio clin analysis review 11
 bio extracorporeal review 5
 enzyme membrane NADH 14s
 enzyme org phase review 28
 enzyme review 1
 glucose review 9
- Electrolyte
 serotonin transporter platelet membrane 95
- Electron
 microscopy ferritin oligomer 218s
 transfer NADH cytochrome bacteria review 581
 transfer photosynthesis cytochrome complex Rhodobacter 588
 transfer succinate fumarate reductase 599
 transport respiratory bacteria lab expt 976
 transport valproate liver proton pump 253s
- Electronic
 nose odor review 36
- Electrophoresis
 biol macromol 486
 blotting cell collagen interaction 370s
 capillary mass spectroscopy peptide protein 943
 ferritin oligomer 218s
 gel protein sciatic nerve 169s
 immobilized pH gradient monocyte esterase 58s
- Electrophoretic
 laser light scattering biochem application 484
- Electrospray
 ionization mass spectrometry 943
 ionization mass spectrometry 954
 magnetic sector mass spectrometry protein 940
 mass spectrometry biol 929
- Elemental
 diet Crohn disease plasma lipid 322s
- ELISA
 collagenase TIMP complex 287s
 coumarin 57s
 endopeptidase 24 11 1s
 thymine dimer DNA UV 442s
- Elongation
 factor EF3 yeast 279s
- Embryo
 dentin extracellular matrix phosphoprotein 188s
 development starch formation pea review 547
 skin microfibril collagen fibrillin 383s
- Embryogenesis
 pea starch formation pathway review 547
- Endocrine
 granule membrane protein review 79
- Endopeptidase
 Helix muscle 295s
 type family review 707
 24 11 ELISA detn 1s
- Endoplasmic
 reticulum calcium flux detn 183s
- Endorphin
 dipeptide calcium nerve 149s
- Endothelial
 leukocyte adhesion mol 1 ligand 649
- Endothelin
 inositol phosphate fibroblast 100s
- Endothelium
 microvascular omentum antigen 168s
- Endotoxin
 neutrophil phosphoinositide superoxide cell differentiation 96s
 phagocyte calcium transport inositol trisphosphate 95s

- Energetics**
 microorganism growth catabolism anabolism education 972
- Energy**
 expenditure daily human 433s
 metab creatine kinase 1010
 metab heart senescence creatine 208s
 metab muscle contraction fatigue review 347
 metab muscle contraction review 353
- Engineering**
 food enzyme thermal stability review 655
- Enterocyte**
 EGF receptor basolateral membrane 307s
- Enterotoxin**
 Clostridium cell morphol 1154
- Environmental**
 pollution monitoring microbe biosensor 15
- Enzyme**
 cypermethrin resistance *Heliothis* 762
 digestive *Archachatina* 334s
 electrode org phase review 28
 electrode review 1
 fish estuary pollution Spain 301s
 food engineering thermal stability review 655
 glutathione heart muscle exercise 240s
 inosinic branch point lymphocyte 343s
 light amplification system 160s
 mediation insecticide toxicity review 737
 membrane electrode NADH 14s
 mitochondria membrane liver synthesis 174s
 purine nucleotide metab lymphocyte leukemia 348s
 redox lab expt 401s
 reverse micelle characterization application review 666
 structure function cell NMR review 997
 thyroliberin degrading nerve culture 36s
 tricarboxylic acid cycle metabolism review 1002
 xenobiotic metab review 751
 xylan degrading component *Penicillium Talaromyces* 25s
- Enzymol**
 in vivo 985
- Epidermal**
 growth factor receptor squamous carcinoma 189s
- Epidermis**
 phospholipase A2 91s
- Epidermolysis**
 bullosa fibroblast protein 60s
- Epimerase**
 UDP galactose lipopolysaccharide locus *Haemophilus* 631
- Epithelium**
 pigment retina catalase detn 443s
 polarized membrane ATPase review 1055
- Epoxidase**
 squalene allylamine deriv fungicide review 774
- EPR**
 cytochrome oxidase active site 259s
- Erysiphe**
 demethylase gene cloning 799
- Erythrocyte**
 diphosphoglycerate asthma cigaret smoking 407s
 glucose transporter 417s
 lithium sodium countertransport vertebrate 408s
 malate dehydrogenase 232s
 membrane cytoskeleton protein review 1039
 nucleoside transport tryptophan 418s
 receptor *Plasmodium* protein 39s
 superoxide dismutase fetus hypoxia anemia 227s
- Erythromycin**
 A ribosome binding structure 313s
- Erythropoietin**
 receptor hematopoietic cell 34s
- Escherichia**
 bacterioferritin conformation quaternary structure 337s
 capsule gene organization regulation review 628
 capsule polysaccharide review 623
 deuterium protein elongation factor 284s
 expression pig collagenase 288s
 fumarate reductase pulsed ESR 256s
- ESR**
 pulsed mitochondria complex fumarate reductase 256s
- Esterase**
 immobilized pH gradient electrophoresis resis monocyte 58s
 insecticide resistance review 755
- Estrogen**
 antagonist review 899
 receptor ligand review 897
- Estuary**
 pollution biochem effect fish 301s
- Ethanol**
 protein formation digestive gland 165s
 protein formation skeletal muscle 167s
- Ethanolamine**
 release glial culture 153s
- Eukaryote**
 cell macromol distribution transport review 1094
- Evolution**
 dihydrofolate reductase reptile 193s
 intermediate filament protein laminin review 1021
- Exercise**
 blood lactate glucose 132s
 cycling diet carbohydrate metab 362
 forearm lactate blood myopathy diagnosis 216s
 glutathione enzyme heart muscle 240s
 muscle gene review 374
 muscle metab frog 137s
 muscle pH recovery malignant hyperthermia 131s
 pH buffering capacity muscle 207s
 serum lipid high altitude 135s
- Exocytosis**
 calcium cytoskeleton calpactin 1085
 chromaffin cell protein review 1090
 motility respiratory burst neutrophil review 55
- Exopolysaccharide**
 genetics symbiosis *Rhizobium* review 636
- Expenditure**
 daily energy human 433s
- Expt**
 phototropic bacteria 976
 redox enzyme 401s
 respiratory electron transport bacteria 976
- Extn**
 bile acid feces 201s
 org acid supported liq membrane 274s
- Extracellular**
 matrix health disease preface 803
 matrix junction cytoskeleton protein review 1028
 matrix metalloproteinase specificity activation review 715
 matrix phosphoprotein dentin ontogeny 188s
- Eye**
 anion transport review 849
 Bruch membrane collagen aging 349s
 crystallin interaction review 853
 cytoskeleton degrading calcium calpain 1148
 glycosaminoglycan formation lactate 354s
 macromol vitreous humor review 868
 mucin formation culture 352s
 pericyte culture collagen Matrigel 368s
 photoreceptor signal transduction rhodopsin 858
 sclera proteoglycan 350s
- Familial**
 hypercholesterolemia platelet calcium aggregation collagen 173s
- Famotidine**
 cimetidine alc dehydrogenase inhibition liver 71s
- Fasciola**
 cathepsin B infectivity Ig cleavage 27s
- Fat**
 body inositol phosphate *Schistosoma* 104s
 diet chloride transport intestine 241s
- Fatigue**
 muscle contraction energy metab review 347
 plasma amino acid 358
- Fatty**
 acid blood acute pancreatitis diagnosis 225s
 acid carnitine CoA ester prepn 174s
 acid diet lithium absorption intestine 422s
 acid membrane *Acanthamoeba* temp 318s
 acid olive tissue culture 268s
 acid phosphatidylcholine late gestation 111s
 acid phospholipid testosterone 345s
 acid plasma lipid Crohn disease 322s
 acid rumen feed yeast 72s
 acid synthetase diflufenican 320s
- Feces**
 bile acid extn 201s
 bile acid rhythm 224s
- Feeding**
 absorption ruminant gastric inhibitory polypeptide 315s
 starvation lung protein formation 166s
- Female**
 muscle implantation male myoblast 195s
- Ferredoxin**
 iron sulfur cluster bacteria 594
- Ferritin**
 oligomer electrophoresis electron microscopy 218s
- Fertility**
 detn phosphatidylcholine liposome 434s
- Fetoprotein**
 formation regulation protein 324s
- Fetus**
 adhesive protein aorta 1072
 head brain oxygenation 514
 liver phosphatidylcholine formation 113s
 lung phosphatidylcholine formation 112s
 superoxide dismutase erythrocyte hypoxia anemia 227s
 vasopressin muscle 175s

- Fibril**
 assocd collagen structure function review 820
 beaded macromol eye review 868
 collagen shape form regulation 808
- Fibrillin**
 microfibril skin embryo 383s
- Fibroblast**
 adrenergic receptor mechanism 102s
 chicken transformation lipofectin plasmid pSV2 328s
 collagen like glycoprotein ligament 385s
 gingiva testosterone metab inflamma= tion mediator 92s
 growth factor gingiva fibroblast tes= tosterone 92s
 growth factor heart development 79s
 growth factor receptor lung disease 28s
 inositol phosphate bombesin desensi= tization 101s
 inositol phosphate endothelin lysop= hosphatidic acid 100s
 neurofilament component phosphory= lated 1147
 phospholipase D EGF 108s
 protein epidermolysis bullosa 60s
 skin collagen ascorbate isoascorbate 48s
 umbilical cord Wharton jelly 29s
- Fibronectin**
 integrin cell adhesion migration review 830
- Fibrosis**
 inhibitor oxalylglycine deriv collagen structure 812
- Filament**
 actin integrin linkage actinin review 1065
 myosin dynamics hydrodynamics 490
- Fish**
 marine glutathione transferase isoen= zyme HPLC 302s
 pollution estuary biochem effect 301s
- Flavor**
 manuf microorganism review 690
 peptide lactate bacteria peptidase review 685
 plant tissue culture review 702
- Flight**
 muscle fructose bisphosphate octopa= mine Locusta 136s
- Fluo**
 3 fluorometry calcium flux 183s
- Fluorometry**
 Fluo 3 calcium flux 183s
- Flux**
 calcium fluorometry Fluo 3 183s
- Folding**
 domain dermatan sulfate proteoglycan II 377s
- Food**
 enzyme engineering thermal stability review 655
 fructan property use review 555
 industry enzyme reverse micelle re= view 666
 microorganism antibiotic review 694
- Foot**
 muscle snail peptidase 295s
- Force**
 protonmotive biol oxidative phospho= rylation education 982
- Forced**
 Rayleigh scattering biomol diffusion 483
- Forearm**
 exercise lactate blood myopathy diagnosis 216s
- Formate**
 binding cytochrome oxidase heterog= enicity 262s
- Formyl**
 peptide receptor G protein monocyte 98s
- Formylmethionylleucylphenylalanine**
 actin neutrophil subpopulation 1129
- Fourier**
 transform mass spectrometry review 922
- Fractal**
 dimension ligand protein assocn 489
- Free**
 radical vitamin K2 426s
- Frog**
 muscle metab exercise 137s
- Fructan**
 formation plant mol biol 565
 property use food review 555
 quality formation crop plant review 569
- Fructooligosaccharide**
 review 561
- Fructose**
 bisphosphate Locusta flight muscle octopamine 136s
- Fructosyltransferase**
 barley onion fructan formation 565
- Fruit**
 fly period gene review 533
- FTIR**
 cinnamoyl hydrocinnamoyl chymo= trypsin isotope shift 159s
- Fucosylated**
 haptoglobin blood inflammatory bowel disease 264s
- Fucosyltransferase**
 cDNA human ligand ELAM1 649
- Fumarase**
 isoenzyme mitochondria cytosol yeast 18s
- Fumarate**
 reductase iron sulfur cluster 599
 reductase pulsed ESR Escherichia 256s
- Fungi**
 filamentous sterol biochem review 769
- Fungicide**
 allylamine deriv squalene epoxidase review 774
 azole Saccharomyces sterol 796
 azole sterol demethylase Candida review 782
 azole sterol demethylase structure review 778
 morpholine review 788
- Fungus**
 glutathione S transferase 17s
- Fusion**
 membrane virus protein structure 312s
- G**
 protein adrenergic receptor myome= trium progesterone 181s
 protein immunodetection plant 239s
 protein monocyte formyl peptide receptor 98s
 protein phospholipase A2 review 333
 protein phospholipase C review 299 342
 protein receptor cytoskeleton neutro= phil 1127
- GABA**
 receptor antibody review 124
 receptor heterogeneity review 129
 transporter mol cloning review 92
- GABAergic**
 receptor mRNA alternative splicing chicken 9s
 receptor subunit heterogeneity 4s
 synaptosome cerebellum development methylazoxymethanol 431s
- Galactomannan**
 guar xanthan gum gelation 269s
- Galactosidase**
 divalent metal cation Rhizobium 19s
 guar xanthan gum gelation 269s
- Galactosyltransferase**
 glucose activation manganese thymus mammary 235s
- Gastric**
 inhibitory polypeptide lipogenesis adipose 309s
 inhibitory polypeptide ruminant feeding absorption 315s
- Gastrointestinal**
 hormone lipogenesis adipose sheep 309s
- Gel**
 biomol diffusion detn Rayleigh scat= tering 483
 chromatog biopolymer 505
 chromatog mass detn biopolymer 486
 chromatog mol mass Pronova 510
 electrophoresis ferritin oligomer 218s
 electrophoresis protein sciatic nerve 169s
 polysaccharide laser scattering 495
- Gelation**
 biopolymer light scattering 484
 gelation light scattering 484
 guar xanthan gum galactosidase 269s
 model whey protein 508
- Gellan**
 gel light scattering 495
- Gene**
 actin Plasmodium detection nested PCR 419s
 chromosome 21 expression brain nerve 200s
 chymosin A cloning Trichoderma 663
 class I antigen interferon adenovirus 83s
 cloning demethylase Erysiphe 799
 collagen IV cattle cloning PCR 366s
 collagen X sequence human 804
 collagenase pig cloning sequence 288s
 expression parotid gland isoprenaline 118s
 fusion chymosin insulin Trichoderma 248s
 glycosylation pathway enzyme yeast review 642
 HSP26 mRNA leader yeast 280s
 keratin expression skin disease review 1112
 lipopolysaccharide phase variation Haemophilus 631
 MBP protein regulation glial cell 85s
 mouse histocompatibility antigen H2Kb regulation 84s
 muscle exercise review 374
 NADPH oxidase respiratory burst review 63
 organization regulation capsule Es= cherichia review 628
 period protein mRNA oscillation review 533
 prolactin promoter deletion rat 42s
 promoter U7 RNA mouse Xenopus 339s
 proteinase cheese starter culture review 670
 proteinase cloning HIV1 virus 298s
 rep inhibition HIV1 virus replication 438s
 ryanodine receptor muscle malignant hyperthermia 46s
 SAL4 protein allosuppressor transla= tion Saccharomyces 281s
 switching myosin muscle stretch 368
 transcription factor ligand response Xenopus 330s
 TSH smolting sexual maturation Salmo 199s
 U6 RNA potato sequence 340s

- U7 RNA mouse transcription 342s
 VSRC neuron differentiation 385
- Genetics
 exopolysaccharide *Rhizobium* review 636
- Gentamicin
 pharmacokinetics tissue accumulation toxicity 128s
- Germination
 amylase isoenzyme wheat aging 360s
- Gestation
 late phosphatidylcholine fatty acid 111s
- Gi
 function liver diabetes 80s
 nucleotide binding regulatory protein TPA 75s
 protein lipolysis desensitization adipocyte 212s
- Gingiva
 fibroblast testosterone metab inflam= mation mediator 92s
- Gland
 adrenal benzodiazepine acceptor protein mitochondria 11s
- Glial
 cell myelin basic protein regulation 85s
 cell phospholipid metab 153s
- Glucagon
 like peptide insulin secretion 311s
- Glucocorticoid
 progesterone receptor ligand structure 901
- Glucose
 ADP synthetase regulation plant review 539
 affinity *Bacillus* plasmid stability 32s
 blood lactate exercise 132s
 electrode review 9
 galactosyltransferase activation man= ganese thymus mammary 235s
 metab peroxyvanadate muscle 133s
 transporter erythrocyte 417s
- Glucosidase
 beta immobilization nylon almond 271s
- Glucuronosyltransferase
 enriched Golgi membrane isolation pea 244s
- Glucuronoxylan
 formation protein plant membrane 250s
- Glucuronyltransferase
 pea organelle 245s
- Glutamate
 binding protein quisqualate muscle 2s
 receptor antiidiotypic antibody 143
 release synaptosome perfusion rate 147s
 semialdehyde stability reductase kinetics pea 319s
- Glutamatergic
 metabotropic receptor brain calcium 154s
- Glutamine
 metab muscle catecholamine 130s
- Glutamyl
 transferase detn oxidized glutathione 51s
 transferase detn substrate organ 49s
- Glutamyltransferase
 detn glutathione nitroanilide specificity 50s
- Glutathione
 enzyme heart muscle exercise 240s
 nitroanilide glutamyltransferase detn specificity 50s
 oxidized glutamyl transferase detn 51s
 S transferase fungus mammal 17s
 transferase isoenzyme marine fish HPLC 302s
- Glyceride
 metab rape seed development 243s
 plasma lipoprotein lipase chylomicron 314s
 serum high altitude exercise 135s
- Glycogen
 formation hepatocyte insulin EGF 420s
 formation liver cytochalasin colchicine 1125
 formation muscle peroxyvanadate 133s
 muscle sciatic nerve stimulation 134s
 synthesis muscle diabetes NMR 992
- Glycolysis
 organization cell ultrastructure review 986
- Glycolytic
 enzyme NMR cell review 997
- Glycopeptide
 asparagine Merrifield synthesis 406s
 conformation freedom water 405s
- Glycoprotein
 asparagine linked formation glycosyl= transferase review 642
 collagen like cell 385s
 conformation freedom water 405s
 decidualization assoc structure uter= us 299s
 electrospray mass spectrometry 929
 glycosylphosphatidylinositol anchor signal NK lymphocyte 265
 Ib protein ABP platelet 1133
 mucin viscoelasticity review 493
 P bacteria hemolysin superfamily review 252
 zona pellucida site proacrosin sperm 412s
- Glycosaminoglycan
 cartilage oxygen 364s
 formation eye lactate 354s
 sulfonation artery deendothelialization 435s
- Glycosylation
 pathway enzyme gene yeast review 642
- Glycosylphosphatidylinositol
 alk phosphatase growth factor 106s
 anchor glycoprotein signal NK lym= phocyte 265
 anchor mucin colon 220s
- Glycylglutamine
 neuron calcium arachidonate 149s
- Golgi
 membrane glucuronosyltransferase enriched isolation pea 244s
 membrane mammary calcium calcium transport 194s
- Gram
 neg bacteria capsule polysaccharide review 623
- Granule
 starch structure organization plant 551
- Granulocyte
 colony stimulating factor superoxide monocyte 237s
- Growth
 cone microtubule 1080
 factor myeloid review 307
 factor receptor fibroblast lung disease 28s
 factor receptor squamous carcinoma mouth 189s
 hormone blood methoxyflurane an= esthesia 196s
- Gs
 protein downregulation prostanoid 81s
- GTPase
 mechanism protein p21ras review 432
 protein Gs functional site review 437
- Guanidinobenzoate
 protease isoenzyme colon tumor 236s
 tumor surface plasminogen activator 427s
- Guanine
 cytosine domain DNA dynamics structure 497
 nucleotide binding protein downregu= lation prostanoid 81s
 nucleotide isoprenaline adrenoceptor 357s
 nucleotide site protein Gs review 437
- Guar
 xanthan gum gelation galactosidase 269s
- HABA
 albumin Kashmir binding mechanism 333s
- Haemophilus
 lipopolysaccharide phase variation gene 631
- Halothane
 hepatitis mol basis review 191
 sarcoplasmic reticulum calcium re= lease 355s
- Hamster
 conjugated bile acid 171s
- Haptoglobin
 fucosylated blood inflammatory bowel disease 264s
- Head
 fetus brain oxygenation 514
- Healing
 wound integrin review 835
- Health
 disease extracellular matrix preface 803
- Heart
 anion channel pH mitochondria 254s
 basic fibroblast growth factor devel= opment 79s
 cAMP protein formation catechol= amine 276s
 creatine kinase review 1006
 energy metab senescence creatine 208s
 energy status post infarction 210s
 glutathione enzyme exercise 240s
 lactate dehydrogenase isoenzyme sepn 219s
 metabolite NMR spectrometry perfu= sion 209s
 mitochondria complex I ischemia anoxia 261s
 mitochondria pyruvate dehydrogenase calcium 138s
 protein formation insulinlike growth factor 277s
 region protein formation hypertension 197s
 troponin I monoclonal antibody 161s
- Heat
 shock protein autoimmunity review 171
- Heavy
 atom deriv protein mutagenesis 221s
- HeLa
 cell expression involucrin virus LTR 139s
- Heliothis
 cypermethrin resistance enzyme 762
- Helix
 aminopeptidase 30s
 muscle membrane peptidase 295s
- Hematopoietic
 cell erythropoietin receptor 34s
 cell growth differentiation review 303
- Heme
 kinase ribosome complex eIF 4E 282s

- oxygenase liver protoporphyrin bilirubin 441s
- Hemidesmosome
alpha6beta4 integrin amnion 381s
- Hemolysin
bacteria P glycoprotein superfamily review 252
- Hemolytic
anemia immune autoantibody me= thyldopa review 183
- Heparan
sulfate proteoglycan biol pathol review 816
- Heparin
binding calcium deriv polarimetry 393s
binding calcium detn polarimetry 391s
binding cation detn polarimetry 392s
calcium sodium binding delocalized 390s
dication binding IR 394s
polypeptide interaction 395s
- Hepatitis
halothane mol basis review 191
- Hepatocyte
calcium mobilization inositol phosphate 206s
couplet purifn use 109s
glycogen formation insulin EGF 420s
glycogen insulin cytochalasin colchicine 1125
membrane bleb ATP eicosanoid 230s
- Hepes
laurine antiinflammatory respiratory burst 73
- Herbicide
catalase retina 443s
- Herpes
virus DNA brain Alzheimer disease 122s
- Hexamine
cobalt DNA condensation 496
- Hippocampus
cytosol calcium vitamin D metabolite 82s
inositol lipid metab review 407
neurotransmission arachidonate review 391
- Histamine
calcium neuroblastoma receptor 6s
- Histocompatibility
antigen H2Kb gene regulation mouse 84s
antigen oncogene review 291
antigen protein secretion pathway 249
complex antigen processing B lymphocyte 263
- HIV1
virus proteinase gene cloning 298s
virus replication inhibition gene rep 438s
- HL60
differentiation protein phosphorylation review 315
- Hormone
G protein phospholipase review 342
insulinlike growth factor liver 33s
receptor antibody antiidiotypic 138
receptor biosensor review 32
receptor nucleus drug screening review 894
receptor signal transduction review 402
receptor signalling phospholipase review 329
signal transduction phosphoinositide review 888
thyroid PCB review 731
- HPLC
glutathione transferase isoenzyme marine fish 302s
- Human
cAMP protein kinase multiple form 22s
cartilage antigen T cell response 378s
collagen X gene sequence 804
colon mucosa microperoxisome isolation 425s
daily energy expenditure 433s
fucosyltransferase cDNA ligand ELAM1 649
UDP acetylglucosamine mannoside acetylglucosaminyltransferase review 645
- Humic
substance mol wt detn ultracentrifugation 414s
- Hyaluronan
type VI collagen skin 384s
- Hyaluronate
conformation rigidity 494
- Hydrocinnamoyl
chymotrypsin FTIR isotope shift 159s
- Hydrodynamics
myosin filament 490
- Hydrogen
bond heparin protein interaction 395s
ion placenta lactate transport membrane 409s
peroxide catalase inhibition aminotriazole 443s
- Hydrogenophilic
methanogenic bacteria detn 70s
- Hydrolase
cholesterol ester mammary lactation 335s
- Hydrolysis
cypermethrin chicken sexual dimorphism 303s
- Hydrophobicity
bacteria adhesion polymer 69s
- Hydroxyazobenzenebenzoate
binding albumin Kashmir mechanism 333s
- Hydroxylase
phenylalanine liver protein phosphatase 228s
phenylalanine phosphorylation cAMP kidney 229s
- Hydroxymethylglutaryl
CoA biosynthesis plant enzyme 164s
- Hydroxytryptamine
transporter photoaffinity label platelet 10s
- Hypercholesterolemia
familial platelet calcium aggregation collagen 173s
- Hyperglycemia
mRNA collagen laminin basement membrane 369s
- Hyperlipidemia
serum apolipoprotein B 211s
- Hypertension
kidney pH 421s
protein formation heart region 197s
- Hyperthermia
malignant halothane calcium sarcoplasmic reticulum 355s
malignant muscle pH recovery exercise 131s
malignant muscle ryanodine receptor gene 46s
- Hypotransferrinemia
mouse model iron binding protein 317s
- Hypoxia
DNA damage nitromin cytotoxicity 127s
fetus superoxide dismutase erythrocyte 227s
- Ig
cleavage cathepsin B Fasciola infectivity 27s
- protein secretion pathway 249
surface interleukin 4 receptor lymphocyte 272
- Ileum
bile acid rhythm 224s
lumen bile acid colon diversion 226s
- Imipramine
analog photoaffinity label hydroxytryptamine 10s
- Immobilization
enzyme nylon film 271s
Pseudomonas degrading deoxycholate 52s
- Immobilized
metal affinity chromatography protein 387s
pH gradient electrophoresis esterase monocyte 58s
- Immune
complex disease drug review 164
hemolytic anemia autoantibody me= thyldopa review 183
- Immunoaffinity
purified cholinergic nerve terminal 83
- Immunoassay
fibroblast umbilical cord 29s
- Immunodeficiency
virus inhibition antisense RNA 437s
- Immunodetection
G protein plant 239s
- Immunogen
integrin subunit monoclonal antibody 361s
- Immunol
optical biosensor review 18
- Immunoliposomes
targeting tumor cell 415s
- Indomethacin
inflammatory bowel disease muscle protein 185s
inflammatory bowel disease protein formation 186s
- Industry
enzyme reverse micelle review 666
- Infectivity
Fasciola cathepsin B Ig cleavage 27s
- Inflammation
alpha macrofotoprotein structure 299s
mediator testosterone metabolite gingiva fibroblast 92s
- Inflammatory
bowel disease blood fucosylated haptoglobin 264s
bowel disease muscle protein formation 185s
bowel disease protein formation intestine 186s
- Inhibitor
plasminogen activator mRNA breast tumor 44s
- Inner
membrane mitochondria malate dehydrogenase heterogeneity 73s
- Inosinic
branch point enzyme lymphocyte 343s
- Inositol
hexakisphosphate cerebellar nerve magnesium 152s
lipid metabolite hippocampus review 407
phosphate binding neuroblast carcinoma 97s
phosphate calcium mobilization hepatocyte 206s
phosphate calcium pituitary 116s
phosphate fibroblast bombesin desensitization 101s
phosphate fibroblast endothelin lysophosphatidic acid 100s
phosphate formation neuroblastoma 103s
phosphate intracellular metabolite review 888
phosphate neuron nerve factor 385

- phosphate pars tuberalis melatonin 93s
 phosphate Schistosoma fat body 104s
 polyphosphate neutrophil priming cytoskeleton dynamics 1048
 polyphosphate receptor brain 151s
 tetrakisphosphate carbachol airway smooth muscle 76s
 transport cell differentiation 86s
 triphosphate luciferase elicitation Verticillium 94s
 triphosphate luciferase phytoalexin formation 359s
 trisphosphate calcium transport phagocyte endotoxin 95s
 trisphosphate monocyte thrombin 89s
 trisphosphate neuroblastoma calcium 424s
 trisphosphate phosphatase testis membrane 105s
- Insecticide**
 resistance esterase review 755
 resistance mosquito carboxylesterase 305s
 resistance stored product pest review 759
 toxicity enzyme mediation review 737
- Insulin**
 blood methoxyflurane anesthesia 196s
 cell polysome protein 1138
 cholesterol formation intestine diabetes 65s
 chymosin fusion gene Trichoderma 248s
 glucose metab muscle peroxyvanadate 133s
 glycogen formation hepatocyte 420s
 glycogen hepatocyte cytochalasin colchicine 1125
 insulinlike growth factor liver 33s
 mRNA diabetes Coxsackie B4 virus 398s
 PGE2 binding macrophage 358s
 polysome animal cell 1136
 receptor tyrosine kinase structure review 426
 secretion glucagon like peptide 311s
- Insulinase**
 superfamily metalloendopeptidase sequence 289s
- Insulinlike**
 growth factor heart protein formation 277s
 growth factor liver hormone 33s
 growth factor receptor placenta 63s
- Integrin**
 actin linkage alpha actinin review 1065
 alpha4beta1 cell adhesion LDV 380s
 alpha6beta4 hemidesmosome amnion 381s
 fibronectin cell adhesion migration review 830
 recognition site collagen platelet 439s
 subunit monoclonal antibody immunogen 361s
 thrombosis wound healing cancer review 835
- Interferon**
 class I antigen gene adenovirus 83s
- Interleukin**
 1 beta thioredoxin secretion pathway review 255
 2 transmembrane signalling review 277
 4 receptor lymphocyte Ig surface 272
 4 signal B lymphocyte review 287
 5 mitogen spleen cell 331s
- Intermediate**
 filament protein laminin evolution review 1021
- Intestine**
 adenoma carcinoma tumorigenicity cysteine proteinase 362s
 chloride transport fat diet 241s
 cholesterol formation insulin diabetes 65s
 epithelium angiotensin receptor 440s
 iron redn uptake 316s
 lithium absorption fatty acid diet 422s
 metallothionein formation copper zinc 283s
 protein formation inflammatory bowel disease 186s
- Intracellular**
 antigen antibody autoimmune disease review 159
- Invertebrate**
 marine xenobiotic activation review 751
- Involucrin**
 expression HeLa cell virus LTR 139s
- Iodoacetate**
 articular chondrocyte 363s
- Ion**
 cyclotron resonance oligosaccharide review 922
- Ionic**
 strength cytochrome oxidase thylakoid Anacystis 252s
- Ionization**
 laser desorption oligosaccharide review 922
- IR**
 heparin dication binding 394s
 near spectrometry blood tissue oxygenation 514
 protein heparin interaction 395s
- Iron**
 binding protein hypotransferrinemia mouse model 317s
 inositol hexakisphosphate brain nerve 152s
 liver fish polluted estuary 301s
 redn uptake intestine 316s
 sulfur cluster ferredoxin bacteria 594
 sulfur cluster membrane mitochondria ESR 256s
 sulfur cluster succinate fumarate reductase 599
- Ischemia**
 heart mitochondria complex I 261s
- Isoascorbate**
 skin fibroblast collagen 48s
- Isoenzyme**
 amylase germination wheat aging 360s
 aspartate aminotransferase heterogeneity stability cytoplasm 74s
 cGMP protein kinase conformation prediction 162s
 fumarase mitochondria cytosol yeast 18s
 glutathione transferase marine fish HPLC 302s
 lactate dehydrogenase sepn heart 219s
 malate dehydrogenase detn 54s
 malate dehydrogenase mitochondria membrane 73s
- Isoprenaline**
 adrenergic receptor binding 357s
 parotid gland gene expression 118s
- Isotope**
 shift FTIR cinnamoyl hydrocinnamoyl chymotrypsin 159s
- Junction**
 extracellular matrix cytoskeleton protein review 1028
- Kainate**
 synaptosome calcium phosphoinositide 148s
- Kashmir**
 albumin hydroxyazobenzenebenzoate binding mechanism 333s
- Keratan**
 sulfate formation cornea oxygen 354s
 sulfate proteoglycan review 871
- Keratin**
 gene expression skin disease review 1112
- Keratinitis**
 dog proteoglycan collagen interaction 353s
- Kidney**
 basement membrane component mRNA diabetes 367s
 brush border adenosine transport 323s
 desferrioxamine transport 217s
 pH hypertension 421s
 phenylalanine hydroxylase phosphorylation cAMP 229s
- Kinase**
 adenylate gene lipopolysaccharide locus Haemophilus 631
 cAMP protein II complex liver 1161
 cAMP protein regulatory subunit complex 1163
 cGMP protein isoenzyme conformation prediction 162s
 creatine energy metab 1010
 creatine heart review 1006
 creatine leakage pancuronium vecuronium 336s
 creatine stability thermal inactivation 66s
 eIF 2alpha ribosome complex reticulocyte 282s
 inositol trisphosphate neuroblastoma calcium 424s
 protein C neoplasm 23s
 protein C neutrophil respiration 77s
 protein C phospholipase A2 pituitary 117s
 protein cAMP multiple form human 22s
 protein cell differentiation review 315
 protein conformation cGMP lung 163s
 protein pituitary calcium arachidonate 115s
 Rx lung 157s
 tyrosine insulin EGF receptor 420s
 tyrosine insulin receptor structure review 426
 tyrosine phosphorylation T cell 269
 tyrosine protein platelet aggregation 1150
- Kluyveromyces**
 pectinase purification 413s
- Kupffer**
 cell microsphere poloxamine coating 329s
- Lab**
 expt phototropic bacteria 976
 expt redox enzyme 401s
 expt respiratory electron transport bacteria 976
- Lactate**
 bacteria peptidase flavor peptide review 685
 blood exercise forearm myopathy diagnosis 216s
 blood exercise glucose 132s
 dehydrogenase creatine kinase pancuronium vecuronium 423s
 dehydrogenase isoenzyme sepn heart 219s
 dehydrogenase isoenzyme uterus 21s
 dehydrogenase NADH detection 14s
 dehydrogenase structure catalysis

- design 576
 eye glycosaminoglycan formation 354s
 formation muscle peroxyvanadate 133s
 lipogenesis brain newborn 140s
 metab lipogenesis brain newborn 141s
 release muscle cell vol 198s
 transport membrane proton trophob= last 409s
- Lactation**
 cholesterol ester hydrolase mammary 335s
- Lactic**
 acid bacteria antibiotic review 694
 acid bacteria phage resistance review 675
- Lactobacillus**
 cell wall teichoate arthritis 404s
- Lactococcus**
 aminopeptidase A 273s
 peptidase 35s
 peptidase cheese flavor peptide review 685
 phage resistance review 675
 proteinase gene cheese review 670
- Lactoglobulin**
 adsorption polystyrene latex 508
 denaturation renaturation pH air water 272s
- Laminin**
 intermediate filament protein evolu= tion review 1021
 mRNA basement membrane hyper= glycemia 369s
 subunit assocn isoform review 839
- Laser**
 desorption ionization oligosaccharide review 922
 desorption mass spectroscopy 954
 desorption mass spectroscopy protein 948
 doppler microelectrophoresis biopo= lymer 486
 light physiol scattering 514
 light scattering biochem introduction 477
 light scattering biopolymer aggrega= tion 505
 light scattering electrophoretic bio= chem application 484
 light scattering hyaluronate alginate 494
 light scattering mol mass 510
 light scattering photometry review 493
 light scattering protein 488
 light scattering protein review 507
 scattering polysaccharide gel 495
 UV DNA formation mammal cell 119s
- Lawyer**
 patent perspective regulatory implica= tion 469
- Legendre**
 analysis particle sizing 504
- Lens**
 cytoskeleton degrdn calcium calpain 1148
- Leukemia**
 lymphocyte purine nucleotide metab enzyme 348s
- Leukocyte**
 phospholipid methylation arachido= nate neg feedback 308s
- LH**
 secretion pituitary phospholipase A2 117s
- Life**
 science education bioenergetics 967
- Ligament**
 fibroblast collagen like glycoprotein 385s
- Ligand**
 protein assocn fractal dimension 489
 response transcription factor gene Xenopus 330s
 vasopressin V1a receptor 87s
- Ligase**
 tubulin tyrosine nerve regeneration 1143
- Ligation**
 state cytochrome oxidase review 617
- Light**
 amplification system ATP luciferase 160s
 laser physiol scattering 514
 laser scattering biochem introduction 477
 laser scattering electrophoretic bio= chem application 484
 laser scattering protein 488
 laser scattering protein review 507
 scattering application microbiol 499
 scattering biopolymer 505
 scattering biopolymer gelation 484
 scattering biopolymer review 478
 scattering casein micelle suspension 489
 scattering detector protein chromatog 487
 scattering differential biopolymer liq chromatog 485
 scattering laser mol mass 510
 scattering laser photometry review 493
 scattering mass detn biopolymer 486
 scattering protein assocn 489
 scattering quasiselastic data analysis 482
 scattering quasiselastic membrane structure dynamics 499
 scattering quasiselastic microtubules assembly property 491
 scattering quasiselastic particle wall interaction 500
 scattering quasiselastic vesicle neuro= secretosome 501
 scattering rodlike polyelectrolyte 482
 scattering theory rodlike macromol 503
- Lipase**
 lipoprotein chylomicron adipose tissue 314s
- Lipid**
 inositol metab hippocampus review 407
 metab avocado diflufenican 320s
 metab oilseed rape seed development 243s
 olive tissue culture 268s
 peroxidn cattle tocopherol selenium deficiency 61s
 peroxidn muscle muscular dystrophy 180s
 peroxidn sperm Caprogen cattle 158s
 plasma elemental diet Crohn disease 322s
 serum high altitude exercise 135s
- Lipoamide**
 dehydrogenase binding domain E2 Bacillus 917
- Lipofectin**
 transformation chicken fibroblast plasmid pSV2 328s
- Lipogenesis**
 adipose sheep gastrointestinal hor= mone 309s
 lactate brain newborn 140s
 lactate metab brain newborn 141s
- Lipolysis**
 adipocyte desensitization Gi protein 212s
- Lipopolysaccharide**
 locus lic1 lic2 lic3 Haemophilus 631
- Lipoprotein**
 artery intima atherosclerosis review 235
 formation spleen 325s
 lipase chylomicron adipose tissue 314s
 metab cholesterogenesis beta adre= nergic 41s
 serum apolipoprotein B 211s
 serum exercise high altitude 135s
- Liposome**
 phosphatidylcholine fertility detn 434s
- Lipoxin**
 A4 calcium transport neutrophil 78s
- Liq**
 affinity chromatog serotonin reuptake 103
 chromatog biopolymer differential light scattering 485
 chromatog calcium binding protein 387s
 chromatog chiral drug sepn review 454
 chromatog glutathione transferase isoenzyme Mugil 302s
 supported membrane org acid extrn 274s
- Listeria**
 DNA probe polymerase chain reaction 698
- Lithium**
 absorption intestine fatty acid diet 422s
 muscle contraction calcium 411s
 sodium countertransport erythrocyte vertebrate 408s
- Liver**
 alc dehydrogenase inhibition cimeti= dine famotidine 71s
 allothreonine threonine aldolase 346s
 benzopyrene binding protein nucleus 182s
 cAMP protein kinase II complex 1161
 carbamoyl pyridoxal phosphate metab 344s
 carboxylesterase multiple form 306s
 chylomicron remnant uptake 326s
 cytosol glutathione transferase isoen= zyme HPLC 302s
 fetoprotein formation regulation 324s
 Gi function diabetes 80s
 glycogen formation cytochalasin col= chicine 1125
 heme oxygenase bilirubin protopor= phyrin 441s
 insulinlike growth factor hormone 33s
 micrososome thioamide sulfur oxidn 233s
 mitochondria membrane enzyme synthesis 174s
 mitochondria transferrin 67s
 multicatalytic proteinase 293s
 phenylalanine hydroxylase protein phosphatase 228s
 phosphatidate phosphohydrolase translocation oleate spermine 321s
 phosphatidylcholine formation fetus newborn 113s
 phospholipid testosterone 345s
 proliferation diglyceride 995
 valproate electron transport proton pump 253s
- Locust**
 adipokinetic hormone inositol phos= phate metab 104s
 flight muscle fructose bisphosphate octopamine 136s
- Locusta**
 flight muscle fructose bisphosphate octopamine 136s

- Long**
 term potentiation arachidonate review 391
 terminal repeat mammal expression plasmid 139s
- Low**
 d lipoprotein metab beta adrenergic 41s
- Lucerne**
 calmodulin signal transduction 190s
 inositol triphosphate elicitation Verticillium 94s
 phytoalexin formation inositol triphosphate 359s
- Luciferase**
 light amplification system 160s
- Luliberin**
 hydrolyzing enzyme nerve culture 36s
- Lung**
 disease fibroblast growth factor receptor 28s
 elastin neutrophil elastase 294s
 muscarinic receptor 145s
 phosphatidylcholine formation fetus newborn 112s
 protein formation starvation feeding 166s
 protein kinase conformation cGMP 163s
 Rx kinase 157s
- Lymphocyte**
 B antigen processing presentation 263
 B interleukin 4 signal review 287
 Ig surface interleukin 4 receptor 272
 inosinic branch point enzyme 343s
 LDL receptor beta adrenergic 41s
 leukemia purine nucleotide metabolism enzyme 348s
 natural killer antigen signal transduction 265
 phospholipase C activation tyrosine phosphorylation 269
 preB line long term proliferation 275
 proliferation decidualization associated protein 300s
 proliferation Streptococcus M protein psoriasis 15s
 purine nucleotide 347s
 T antigen CD4 CD8 diabetes 187
 T cartilage proteoglycan deglycosylation 386s
 T eicosanoid 88s
- Lysophosphatidic acid**
 inositol phosphate fibroblast 100s
- Lysosome**
 proteolysis Saccharomyces review 724
- Lysozyme**
 sequence bone 374s
- Lyzed**
 olive plant tissue culture 268s
- L132**
 cell multicatalytic proteinase 293s
- M**
 protein Streptococcus lymphocyte proliferation psoriasis 15s
- Macrofetoprotein**
 alpha structure inflammation 299s
- Macromol**
 biol electrophoresis spectroscopy 486
 distribution transport eukaryote cell review 1094
 eye vitreous humor review 868
 rodlike light scattering theory 503
- Macropain**
 active site interaction 291s
- Macrophage**
 PGE2 binding insulin 358s
 phospholipase A2 110s
- Macroscopic**
 analysis polydispersity 479
- Magnesium**
 inositol hexakisphosphate cerebellar nerve 152s
 muscle contraction calcium 411s
 pyruvate carboxylase biotin carboxylation 231s
- Magnetic**
 sector electrospray mass spectroscopy protein 940
- Malaria**
 antigen sequence Plasmodium review 525
- Malate**
 dehydrogenase erythrocyte 232s
 dehydrogenase heterogeneity mitochondria inner membrane 73s
 dehydrogenase isoenzyme detn 54s
- Male**
 myoblast implantation female muscle 195s
- Malignant**
 hyperthermia halothane calcium sarcoplasmic reticulum 355s
 hyperthermia muscle pH recovery exercise 131s
 hyperthermia muscle ryanodine receptor gene 46s
- Maltooligosaccharide**
 producing alpha amylase Bacillus 16s
- Mammal**
 cell DNA formation UV laser 119s
 erythrocyte lithium sodium transport 408s
 glutathione S transferase 17s
- Mammary**
 cholesterol ester hydrolase lactation 335s
 exocytosis calcium cytoskeleton calpactin 1085
 glucose galactosyltransferase activation manganese 235s
 Golgi membrane calcium calcium transport 194s
- Manganese**
 activation glucose galactosyltransferase thymus mammary 235s
 liver fish polluted estuary 301s
- MAO**
 A B sequence review 199
- Marine**
 fish glutathione transferase isoenzyme HPLC 302s
 invertebrate xenobiotic activation review 751
- Mass**
 laser desorption spectroscopy protein 948
 mol biopolymer review 493
 mol detn sodium alginate 510
 molar detn biomol 486
 spectrometry bacteria oligosaccharide review 922
 spectrometry electrospray biol 929
 spectrometry phosphodiesterase kinetics review 397s
 spectrometry pyrolysis polysaccharide review 935
 spectroscopy aziridine identification Salsola 432s
 spectroscopy capillary electrophoresis peptide protein 943
 spectroscopy computer program biopolymer 957
 spectroscopy electrospray magnetic sector protein 940
 spectroscopy protein 954
- Mastoparan**
 human platelet activation 114s
- Matrigel**
 retinal pericyte culture collagen 368s
- Matrix**
 extracellular health disease preface 803
 extracellular metalloproteinase specificity activation review 715
- Melatonin**
 pars tuberalis inositol phosphate calcium 93s
- Membrane**
 antigen endocrine neuronal review 79
 ATPase polarized epithelium review 1055
 basement component mRNA kidney diabetes 367s
 bleb hepatocyte ATP eicosanoid 230s
 Bruch eye collagen aging 349s
 cytochrome oxidase c554 c Anacystis 252s
 cytoskeleton protein erythrocyte review 1039
 enzyme electrode NADH 14s
 fatty acid Acanthamoeba temp 318s
 fusion protein structure virus 312s
 glucuronosyltransferase enriched Golgi isolation pea 244s
 inner mitochondria malate dehydrogenase heterogeneity 73s
 inositol trisphosphate phosphatase testis 105s
 iron sulfur cluster mitochondria ESR 256s
 liq supported org acid extn 274s
 mitochondria enzyme liver synthesis 174s
 muscle Helix peptidase 295s
 plant glucuronoxylan formation protein 250s
 platelet serotonin transporter 95
 potential oleate proton potassium transport 257s
 signal transduction TonB model review 530
 structure dynamics quasielastic light scattering 499
 trophoblast lactate transport proton 409s
- Menaquinone**
 7 steroid A ring dehydrogenase 64s
- Merrifield**
 synthesis asparagine glycopeptide 406s
- Mesenchyme**
 tooth DMP protein adhesion 187s
- Metab**
 muscle exercise frog 137s
- Metabolite**
 heart NMR spectrometry perfusion 209s
- Metabotropic**
 glutamatergic receptor brain calcium 154s
- Metal**
 cation divalent galactosidase Rhizobium 19s
 immobilized affinity chromatography protein 387s
- Metalloendopeptidase**
 sequence insulinase superfamily 289s
- Metalloprotease**
 cDNA Armillaria cloning 45s
- Metalloproteinase**
 inhibitor TIMP dog 372s
 specificity activation extracellular matrix review 715
 tissue inhibitor collagenase complex ELISA 287s
- Metallothionein**
 formation intestine copper zinc 283s
- Methanogen**
 hydrogenophilic pressure transducer assay 70s

Methanogenic
 hydrogenophilic bacteria detn 70s
Methionine
 metab pancreatitis antioxidant thera=
 py 310s
Methotrexate
 binder Saccharomyces dihydrofolate
 reductase 192s
Methylation
 phospholipid leukocyte arachidonate
 neg feedback 308s
Methylazoxymethanol
 development GABAergic synaptosome
 cerebellum 431s
Methylcholanthrene
 microsome Alligator benzopyrene
 metab 746
Methyl dopa
 immune hemolytic anemia autoanti=
 body review 183
Methyltransferase
 betaine homocysteine detn urine
 NMR 402s
 catechol placenta 20s
Micelle
 reverse enzyme characterization ap=
 plication review 666
 suspension casein light scattering
 489
Microbe
 biosensor environmental pollution
 monitoring 15
Microbial
 contamination fermn photon correla=
 tion spectroscopy 513
Microbicidal
 oxidase component phagocyte review
 49
Microbiol
 light scattering application 499
Microelectrophoresis
 biopolymer 486
Microfibril
 collagen fibrillin skin embryo 383s
Microfilament
 actin disruption Yersinia cytotoxin
 1131
 actin metab cell review 1120
Microglobulin
 mRNA polysome cytoskeleton 1108
Microorganism
 flavor manuf review 690
 food antibiotic review 694
 growth energetics catabolism anabol=
 ism education 972
Microperoxisome
 isolation human colon mucosa 425s
Microscopy
 electron ferritin oligomer 218s
Microsome
 activation Alligator benzopyrene 746
 anion channel cation transport brain
 255s
 liver thioamide sulfur oxidn 233s
Microsphere
 poloxamine coating Kupffer cell
 329s
Microtubule
 assembly bromophenacyl bromide
 170s
 assembly bromophenacyl bromide
 inhibition antiinflammation 1140
 dynamic instability phys mechanism
 review 1023
 growth cone 1080
 assembly property quasielastic light
 scattering 491
Microvascular
 endothelium omentum antigen 168s
Milk
 coagulation chymosin mutant engi=
 neering 265s
 xanthine oxidase 332s
Mitochondria
 anion channel pH heart 254s
 benzodiazepine acceptor protein
 adrenal gland 11s
 complex I heart ischemia anoxia
 261s
 denatured enzyme refolding 204s
 fumarase isoenzyme cytosol yeast
 18s
 inner membrane malate dehydroge=
 nase heterogeneity 73s
 iron sulfur cluster membrane ESR
 256s
 membrane enzyme liver synthesis
 174s
 pyruvate dehydrogenase calcium
 heart 138s
 transferrin liver 67s
Mitogen
 spleen cell interleukin 5 331s
Mitosis
 muscular dystrophy muscle protein
 formation 178s
MOA
 stilbene photosystem cytochrome bf
 effector 263s
Model
 circular DNA 511
 membrane signal transduction TonB
 review 530
 muscarinic receptor 133
 sterol demethylase Saccharomyces
 793
Mol
 basis hepatitis halothane review 191
 cloning neurotransmitter reuptake
 review 92
 mass biopolymer review 493
 mass detn sodium alginate 510
 wt detn humic substance ultracentri=
 fugation 414s
Molar
 mass detn biomol 486
Monoamine
 oxidase A B kinetic mechanism 219
 oxidase A B review 199
 oxidase active site review 207
 oxidase B subunit assocn 24s
 oxidase inhibitor propynylaminomet=
 hylmethylindole deriv structure
 215
 oxidase mechanism review 201
 oxidase substrate product review
 224
 oxidase tertiary amine review 211
Monoclonal
 antibody integrin subunit immunogen
 361s
 antibody motor neuron 338s
 antibody nicotinic receptor review
 115
 antibody troponin I heart 161s
Monocyte
 calcium inositol trisphosphate throm=
 bin 89s
 esterase immobilized pH gradient
 electrophoresis 58s
 G protein formyl peptide receptor
 98s
 superoxide granulocyte colony stimu=
 lating factor 237s
Morpholine
 fungicide review 788
Mosquito
 carboxylesterase insecticide resistance
 305s
Motility
 exocytosis respiratory burst neutro=
 phil review 55
Motor
 neuron monoclonal antibody 338s
Mouse
 histocompatibility antigen H2Kb
 gene regulation 84s
 hypotransferrinemia model iron bind=
 ing protein 317s
 U7 RNA gene promoter Xenopus
 339s
 U7 RNA gene transcription 342s
 U7 RNA Xenopus oocyte 341s
Mouth
 squamous carcinoma growth factor
 receptor 189s
mRNA
 basement membrane component
 kidney diabetes 367s
 collagen laminin basement membrane
 hyperglycemia 369s
 distribution polysome cell 1108
 GABAergic receptor alternative splic=
 ing chicken 9s
 leader gene HSP26 yeast 280s
 PABP protein cytoskeleton cell
 growth 1099
 preproinsulin pancreas Cocksackie B4
 virus 398s
 preproinsulin protein RNA interaction
 120s
 protein period gene oscillation review
 533
 ribosome cytoskeleton review 1103
 ryanodine receptor muscle malignant
 hyperthermia 46s
 thyroid hormone receptor Xenopus
 egg 203s
 urokinase plasminogen activator
 breast tumor 44s
Mucin
 formation conjunctival culture 352s
 glycoprotein viscoelasticity review
 493
 glycosylphosphatidylinositol anchor
 colon 220s
Mucosa
 human colon microperoxisome isola=
 tion 425s
Mugil
 pollution glutathione transferase
 water 302s
Multicatalytic
 proteinase active site interaction
 291s
 proteinase liver L132 cell 293s
 proteinase trypsinlike subunit 292s
Multidrug
 resistance glycoprotein hemolysin
 superfamily review 252
 resistance neoplasm inhibitor X ray
 125s
Multiple
 sclerosis protein cerebellum 179s
Muscarinic
 acetylcholine receptor lung 145s
 receptor neuron phosphoinositide
 metab review 416
 receptor phosphoinositide neuroblas=
 toma 103s
 receptor structure function 133
Muscle
 acetylcholine receptor burn 191s
 ATPase rigor mortis 38s
 calcitonin gene related peptide nerve
 134s
 cell cytoskeleton 1116
 contraction calcium lithium magnesi=
 um 411s
 contraction energy metab fatigue
 review 347
 contraction energy metab review 353
 flight fructose bisphosphate octopa=
 mine Locusta 136s
 foot snail peptidase 295s
 gene exercise review 374
 glucose metab peroxyvanadate 133s
 glutamate binding protein quisqualate
 2s
 glutamine metab catecholamine
 130s
 glutathione enzyme exercise 240s
 glycogen synthesis diabetes NMR
 992
 lactate release cell vol 198s

- lipid peroxidn muscular dystrophy 180s
 metab exercise frog 137s
 nicotinic receptor antibody review 115
 nucleotide binding regulatory protein TPA 75s
 PGE2 release muscular dystrophy 177s
 pH buffering capacity exercise 207s
 pH recovery exercise malignant hyperthermia 131s
 protein conformation detn review 507
 protein formation inflammatory bowel disease 185s
 protein formation muscular dystrophy mitosis 178s
 ryanodine receptor gene malignant hyperthermia 46s
 skeletal protease clenbuterol 214s
 skeletal protein formation alc 167s
 smooth calpain II subunit ubiquitination 410s
 stretch myosin gene switching 368
 vasopressin fetus newborn 175s
- Muscular**
 dystrophy lipid peroxidn muscle 180s
 dystrophy muscle mitosis protein formation 178s
 dystrophy PGE2 release muscle 177s
- Mutagenesis**
 protein heavy atom deriv 221s
- Mutagenicity**
 vitamin K2 free radical 426s
- Mutant**
 chymosin engineering milk coagulation 265s
- Mutation**
 site specific chymosin pH profile 266s
 site specific chymosin specificity modification 267s
 sterol formation Neurospora cytochrome P450 799
- Myasthenia**
 gravis autoimmunity acetylcholine receptor review 180
- Myelin**
 basic protein glial cell regulation 85s
- Myeloid**
 growth factor review 307
- Myoblast**
 creatine transport 172s
 male implantation female muscle 195s
- Myometry**
 adrenergic receptor G protein proteinogon 181s
- Myopathy**
 diagnosis lactate blood exercise forearm 216s
- Myopia**
 sclera structure biochem mechanism review 861
- Myosin**
 actin nucleotide interaction review 423
 filament dynamics hydrodynamics 490
 gene switching muscle stretch 368
- M1**
 receptor lung 145s
- M2**
 receptor lung 145s
- M4**
 receptor lung 145s
- NAD**
 dehydrogenase structure catalysis modeling 576
- NADH**
 cytochrome electron transfer bacteria review 581
- enzyme membrane electrode 14s
 ubiquinone oxidoreductase Vibrio 251s
- NADP**
 dehydrogenase structure catalysis modeling 576
- NADPH**
 oxidase deactivation respiratory burst review 51
 oxidase gene respiratory burst review 63
 oxidase mechanism inhibitor review 70
 oxidase phagocyte review 49
 oxidase proton channel activation arachidonate 67
- Natural**
 killer lymphocyte antigen signal transduction 265
 product labile mass spectroscopy 432s
- Near**
 IR spectrometry blood tissue oxygenation 514
- Neoplasm**
 inhibitor multidrug resistance X ray 125s
 protein kinase C 23s
- Neoplastic**
 transformation syndecan growth regulation review 1069
- Nerve**
 calcitonin gene related peptide muscle 134s
 calcium endorphin dipeptide 149s
 cell surface antibody review 87
 cerebellar inositol hexakisphosphate magnesium 152s
 chromosome 21 gene 200s
 culture thyroliberin degrading enzyme 36s
 cytoskeleton protein p103 A60 review 1042
 growth factor neuron eicosanoid 385
 membrane protein review 79
 nicotinic receptor antibody review 115
 peripheral regeneration tubulin tyrosine 1143
 sciatic retrograde transported protein sepn 169s
 terminal cholinergic 83
- Neuroblast**
 inositol phosphate binding carbachol 97s
- Neuroblastoma**
 calcium histamine receptor 6s
 inositol trisphosphate calcium 424s
 phosphoinositide metab 103s
- Neurofilament**
 component fibroblast phosphorylated 1147
- Neurohypophyses**
 vertebrate vesicle neurosecretosome size dispersity 501
- Neurokinin**
 A receptor binding brain 13s
- Neuron**
 motor monoclonal antibody 338s
 muscarinic receptor phosphoinositide metab review 416
 nerve growth factor eicosanoid 385
 signaling arachidonate metab review 387
- Neurosecretosome**
 vesicle size dispersity vertebrate neurohypophyses 501
- Neurospora**
 sterol formation cytochrome P450 mutation 799
- Neurotensin**
 analog receptor binding brain 12s
 fragment receptor binding 31s
- Neurotransmission**
 hippocampus arachidonate review 391
- Neurotransmitter**
 amino acid transport 5s
 phosphoinositide metab hippocampus review 407
 release sulfur amino acid 3s
 reuptake mol cloning review 92
 synaptosome antibody review 87
- Neutrophil**
 calcium transport lipoxin A4 78s
 collagenase purifn 62s
 elastase elastin lung 294s
 motility exocytosis respiratory burst review 55
 phosphoinositide superoxide endotoxin in cell differentiation 96s
 priming inositol polyphosphate cytoskeleton dynamics 1048
 receptor cytoskeleton G protein 1127
 respiration protein kinase C 77s
 subpopulation actin formylmethionyl-leucylphenylalanine 1129
 superoxide formation cAMP cGMP analog 59
- Newborn**
 brain lactate metab lipogenesis 141s
 brain lipogenesis lactate 140s
 liver phosphatidylcholine formation 113s
 lung phosphatidylcholine formation 112s
 vasopressin muscle 175s
- Nicotinate**
 adipocyte lipolysis Gi protein 212s
- Nicotinic**
 receptor brain review 121
 receptor monoclonal antibody review 115
- Ninhydrin**
 deriv reaction valine dipeptide 234s
- Nitrate**
 reductase bacteria review 605
- Nitromin**
 DNA damage hypoxia cytotoxicity 127s
- NMR**
 betaine homocysteine methyltransferase urine detn 402s
 calmodulin calmidazolium binding 430s
 enzyme structure function cell review 997
 glycogen synthesis muscle diabetes 992
 spectrometry biochem review 243
 spectrometry metabolite heart perfusion 209s
- Nodulation**
 exopolysaccharide Rhizobium review 636
- Nucleic**
 acid biosensor review 39
- Nucleoside**
 transport erythrocyte tryptophan 418s
- Nucleoskeleton**
 cytoskeleton macromol distribution transport review 1094
- Nucleotide**
 binding regulatory protein muscle TPA 75s
 myosin actin interaction review 423
 purine lymphocyte 347s
 purine metab enzyme lymphocyte leukemia 348s
- Nucleus**
 benzopyrene binding protein liver 182s
 hormone receptor drug screening review 894
- Nylon**
 film enzyme immobilization 271s
- Oct**
 Pit element transcription factor Pit1GHF1 43s

- Octopamine**
Locusta flight muscle fructose bisphosphate 136s
- Odor**
detection sensor review 36
- Oilseed**
rape lipid metab seed development 243s
- Oleate**
liver phosphatidate phosphohydrolase translocation 321s
proton potassium transport membrane potential 257s
- Olfaction**
odor detection review 36
- Oligomer**
ferritin electrophoresis electron microscopy 218s
- Oligonucleotide**
DNA diffusion dynamics soln 498
- Oligopeptidase**
thimet carboxyphenylpropylpeptide inhibitor review 290s
- Oligosaccharide**
bacteria mass spectrometry review 922
- Olive**
plant tissue culture lyzed 268s
- Omentum**
microvascular endothelium antigen 168s
- Oncogene**
histocompatibility antigen review 291
- Onion**
fructosyltransferase fructan formation 565
- Ontogeny**
dentin extracellular matrix phosphoprotein 188s
- Oocyte**
Xenopus U7 RNA mouse 341s
- Opium**
poppy capsule compn 436s
- Optical**
immunol biosensor review 18
rotation heparin calcium binding 393s
rotation heparin dication complex 394s
- Oral**
bacteria targeting proteoliposome 416s
- Org**
acid extn supported liq membrane 274s
phase biosensor review 28
- Organ**
glutamyl transferase detn substrate 49s
phosphate permeation 176s
- Osmolality**
bladder toad bioassay vasopressin 124s
- Osteoarthritis**
collagen subtype cartilage 379s
collagen X gene expression 804
- Osteoblast**
collagenase culture 59s
platelet activating factor 184s
- Osteocalcin**
sequence rabbit 373s
- Osteoclastoma**
cathepsin B multiple form 286s
- Osteogenesis**
imperfecta type 3 collagen analysis 382s
- Ovary**
carcinoma cisplatin cytotoxicity mechanism 126s
cyst adenoma acetylglucosaminidase A 213s
- Overhauser**
effect drug binding protein 430s
- Oxalylglycine**
deriv inhibitor prolyl hydroxylase structure 812
- Oxidase**
amine semicarbazide sensitive review 228
cytochrome active site EPR 259s
cytochrome active site structure 258s
cytochrome bacteria review 608
cytochrome c554 c membrane Anacystis 252s
cytochrome heterogeneity formate binding 262s
cytochrome ligation oxidn state review 617
cytochrome o aa3 review 613
lactate NADH detection 14s
microbicidal component phagocyte review 49
monoamine A B kinetic mechanism 219
monoamine A B review 199
monoamine active site review 207
monoamine B subunit assocn 24s
monoamine inhibitor propynylamino methylmethylindole deriv structure 215
monoamine mechanism review 201
monoamine substrate product review 224
monoamine tertiary amine review 211
NADPH deactivation respiratory burst review 51
NADPH gene respiratory burst review 63
NADPH mechanism inhibitor review 70
NADPH proton channel activation arachidonate 67
xanthine milk 332s
- Oxidative**
phosphorylation biol protonmotive force education 982
- Oxidized**
glutathione glutamyl transferase detn 51s
- Oxidn**
state cytochrome oxidase review 617
sulfur thioamide liver microsome 233s
- Oxidoreductase**
NADH ubiquinone bacteria review 581
NADH ubiquinone Vibrio 251s
- Oxoglutarate**
dehydrogenase complex homol protein X 403s
- Oxygen**
cartilage glycosaminoglycan UDP sugar 364s
cornea keratan sulfate formation 354s
- Oxygenase**
heme liver protoporphyrin bilirubin 441s
- Oxygenation**
blood tissue near IR spectrometry 514
- PABP**
protein mRNA cytoskeleton cell growth 1099
- Pancreas**
preproinsulin mRNA Cocksackie B4 virus 398s
- Pancreatitis**
acute diagnosis phospholipase A2 blood 225s
methionine metab antioxidant therapy 310s
- Pancuronium**
creatine kinase leakage vecuronium 336s
vecuronium lactate dehydrogenase creatine kinase 423s
- Paracoccus**
electron transport lab expt 976
- Paraoxonase**
specificity blood serum 304s
- Parkinsons**
disease drug monoamine oxidase review 224
- Parotid**
gland gene expression isoprenaline 118s
- Pars**
tuberculosis inositol phosphate calcium melatonin 93s
- Particle**
colloid drug carrier 502
sizing Legendre analysis 504
wall interaction quasielastic light scattering 500
- Patent**
lawyer perspective regulatory implication 469
- PCB**
vitamin A thyroid hormone review 731
- Pea**
embryogenesis starch formation pathway review 547
glucuronosyltransferase enriched Golgi membrane isolation 244s
glutamate semialdehyde stability reductase kinetics 319s
organelle glucuronyltransferase 245s
- Pectinase**
purifn Kluyveromyces 413s
- Penicillium**
amylase amyloglucosidase fermn 270s
xylan degrading enzyme component 25s
- Peptidase**
lactate bacteria flavor peptide review 685
Lactococcus 35s
snail foot muscle 295s
- Peptide**
capillary electrophoresis mass spectroscopy 943
CFTR protein antibody cystic fibrosis 247s
flavor lactate bacteria peptidase review 685
TRH immunoreactive prostate 327s
- Perfusion**
NMR spectrometry metabolite heart 209s
- Pericyte**
retinal culture collagen Matrigel 368s
- Period**
gene protein mRNA oscillation review 533
- Peripheral**
nerve regeneration tubulin tyrosine 1143
- Permeation**
phosphate organ 176s
- Peroxidase**
cytochrome oxidase ligation oxidn review 617
- Peroxidn**
lipid cattle tocopherol selenium deficiency 61s
lipid muscle muscular dystrophy 180s
lipid sperm Caprogen cattle 158s
- Peroxyvanadate**
glucose metab muscle 133s
- Pesticide**
toxicity bird review 741
- PGE1**
adipocyte lipolysis Gi protein 212s
gingiva fibroblast testosterone 92s
platelet ADP schizophrenia polemic 155s

- PGE2**
binding macrophage insulin 358s
release muscle muscular dystrophy 177s
- pH**
anion channel heart mitochondria 254s
buffering capacity muscle exercise 207s
kidney hypertension 421s
lactoglobulin denaturation renatura= tion air water 272s
profile chymosin site specific mutation 266s
- Phage**
resistance lactic acid bacteria review 675
- Phagocyte**
endotoxin calcium transport inositol trisphosphate 95s
microbicidal oxidase component review 49
- Phanerochaete**
protein fermn wheat straw 68s
- Pharmacol**
clin chirality review 460
- Phenylalanine**
hydroxylase liver protein phosphatase 228s
hydroxylase phosphorylation cAMP kidney 229s
- Phenylisopropyladenosine**
adipocyte lipolysis Gi protein 212s
- Phenytol**
gingiva fibroblast testosterone 92s
- Phorbol**
dibutyrate protein kinase C calcium 150s
ester protein kinase brain 397
- Phormidium**
toxin purifn 428s
- Phosphatase**
alk glycosylphosphatidylinositol growth factor 106s
inositol trisphosphate testis mem= brane 105s
protein cell differentiation review 315
protein liver phenylalanine hydroxy= lase 228s
- Phosphate**
heart NMR spectrometry perfusion 209s
permeation organ 176s
pH buffer muscle exercise 207s
toxicity paraoxonase serum 304s
- Phosphatidate**
phosphohydrolase translocation liver oleate spermine 321s
- Phosphatidylcholine**
fatty acid late gestation 111s
formation liver fetus newborn 113s
formation lung fetus newborn 112s
liposome fertility detn 434s
- Phosphatidylethanolamine**
metab liver proliferation 99s
- Phosphatidylinositol**
metab brain signal transduction 156s
protein linkage 106s
TCR thymocyte apoptosis 90s
- Phosphocreatine**
heart NMR spectrometry perfusion 209s
- Phosphodiesterase**
cAMP inhibitor algae 429s
cyclic nucleotide kinetics review 397s
- Phosphohydrolase**
phosphatidate translocation liver oleate spermine 321s
- Phosphoinositide**
hormone signal transduction review 888
metab muscarinic receptor neuron review 416
metab neuroblastoma 103s
neutrophil endotoxin cell differentia= tion 96s
specific phospholipase C review 337
synaptosome excitatory amino acid 148s
- Phospholipase**
A2 blood acute pancreatitis diagnosis 225s
A2 epidermis 91s
A2 G protein review 333
A2 LH secretion pituitary 117s
A2 macrophage 110s
bombesin receptor 321
C activation lymphocyte tyrosine phosphorylation 269
C G protein review 299 342
C neuroblastoma calcium 424s
C phosphoinositide specific review 337
calcium prostacyclin thromboxane receptor 99s
D fibroblast EGF 108s
D regulation function review 324
D signal transduction review 402
hormone receptor signalling review 329
- Phospholipid**
formation lactate brain newborn 141s
liver plasma testosterone 345s
metab bombesin receptor 321
metab bradykinin arachidonate re= lease 411
metab glial cell 153s
methylation leukocyte arachidonate neg feedback 308s
olive tissue culture 268s
- Phosphoprotein**
extracellular matrix dentin ontogeny 188s
- Phosphorylation**
biol oxidative protonmotive force education 982
domain ATPase sarcoplasmic reticu= lum 205s
phenylalanine hydroxylase cAMP kidney 229s
protein HL60 differentiation review 315
troponin I heart 161s
tyrosine phospholipase C activation lymphocyte 269
- Photoaffinity**
label hydroxytryptamine transporter platelet 10s
- Photometry**
laser light scattering review 493
- Photon**
correlation spectroscopy biopolymer 486
correlation spectroscopy fermn micro= bial contamination 513
correlation spectroscopy particle drug 502
- Photoreceptor**
signal transduction rhodopsin eye 858
- Photosynthesis**
bacteria transhydrogenase proton translocation review 573
electron transfer cytochrome complex Rhodobacter 588
- Photosystem**
MOA stilbene cytochrome bf effector 263s
- Phototropic**
bacteria lab expt 976
- Phytoalexin**
formation lucerne inositol triphosp= hate 359s
- Piezoelec**
biosensor review 44
- Pig**
collagenase gene cloning sequence 288s
- Pigment**
epithelium retina catalase detn 443s
- Pisum**
glutamate semialdehyde aminotrans= ferase aminolevulinatate formation 319s
- Pit**
Oct element transcription factor Pit1GHF1 43s
- Pituitary**
calcium arachidonate protein kinase 115s
calcium inositol phosphate 116s
cell proinsulin mutant processing 202s
phospholipase A2 LH secretion 117s
- Pit1GHF1**
transcription factor Pit Oct element 43s
- Placenta**
catechol methyltransferase 20s
insulinlike growth factor receptor 63s
lactate dehydrogenase isoenzyme 21s
lactate transport membrane hydrogen ion 409s
- Plant**
biosynthesis hydroxymethylglutaryl CoA enzyme 164s
sterol biodegrdn 52s
tissue culture flavor review 702
- Plasma**
amino acid fatigue 358
analyte methoxyflurane anesthesia 196s
glyceride lipoprotein lipase chylomi= cron 314s
lipid elemental diet Crohn disease 322s
phospholipid testosterone 345s
proinsulin detn bioassay 55s
- Plasmid**
cloning Rous sarcoma virus promoter 139s
pSV2 chicken fibroblast transforma= tion lipofectin 328s
stability Bacillus glucose affinity 32s
- Plasminogen**
activator inhibitor mRNA breast tumor 44s
activator tumor surface guanidino= benzoatase 427s
- Plasmodium**
actin gene detection nested PCR 419s
malaria antigen sequence review 52s
protein erythrocyte receptor 39s
- Platelet**
actin binding protein domain ligand 1133
activating factor osteoblast 184s
aggregation pp60csrc cytoskeleton 1150
calcium aggregation collagen familial hypercholesterolemia 173s
derived growth factor lung disease 28s
human activation mastoparan 114s
hydroxytryptamine transporter pho= toaffinity label 10s
integrin recognition site collagen 439s
membrane serotonin transporter 95
PGE1 ADP schizoprenia polemic 155s
prothrombinase taxol 47s
serotonin reuptake system purifn 103
serotonin transporter probe review 112

- Polarimetry**
calcium binding heparin deriv 393s
calcium binding heparin detn 391s
cation binding heparin detn 392s
- Polarized**
epithelium membrane ATPase review 1055
- Pollution**
environmental monitoring microbe biosensor 15
estuary biochem effect fish 301s
water glutathione transferase isoenzyme Mugil 302s
- Poloxamine**
coating microsphere Kupffer cell 329s
- Polydispersity**
macroscopic analysis 479
- Polyelectrolyte**
rodlike light scattering 482
- Polyisopropylacrylamide**
gel diffusion detn 483
- Polymer**
bacteria adhesion hydrophobicity 69s
soln diffusion review 481
- Polymerase**
chain reaction actin gene Plasmodium 419s
chain reaction collagen IV gene 366s
chain reaction Listeria DNA probe 698
- Polypeptide**
heparin interaction 395s
- Polyphosphate**
inositol neutrophil priming cytoskeleton dynamics 1048
- Polyribosome**
cytoskeleton protein formation review 1103
- Polysaccharide**
capsule Escherichia review 623
differential light scattering 485
gel laser scattering 495
gelation light scattering 484
pyrolysis mass spectrometry review 935
- Polysome**
animal cell insulin 1136
mRNA distribution cell 1108
protein cell insulin 1138
- Polystyrene**
latex lactoglobulin adsorption 508
microsphere Kupffer cell poloxamine 329s
- Poppy**
capsule compn 436s
- Potassium**
proton transport oleate membrane potential 257s
serotonin transporter platelet membrane 95
- Potato**
U6 RNA gene sequence 340s
- Potentiation**
long term arachidonate review 391
- Pp60csrc**
cytoskeleton platelet aggregation 1150
- PreB**
lymphocyte line long term proliferation 275
- Preproinsulin**
mRNA pancreas Coxsackie B4 virus 398s
mRNA protein RNA interaction 120s
- Pressure**
cysteine protease secretion cartilage 396s
transducer assay hydrogenophilic methanogen 70s
- Proacrosin**
sperm zona pellucida glycoprotein site 412s
- Probe**
proteolysis protein folding 296s
- Procollagenase**
recombinant 371s
- Progesterone**
adrenergic receptor G protein myometrium 181s
glucocorticoid receptor ligand structure 901
- Proinsulin**
detn bioassay plasma 55s
mutant processing pituitary cell 202s
- Prolactin**
gene promoter deletion rat 42s
- Prolamin**
sulfur poor structure cereal review 528
- Proline**
rich protein gene parotid isoprenaline 118s
- Prolyl**
hydroxylase oxalyglycine deriv inhibitor structure 812
- Prometalloproteinase**
activation proteolysis extracellular matrix review 715
- Promoter**
cloning plasmid Rous sarcoma virus 139s
gene U7 RNA mouse Xenopus 339s
prolactin gene deletion rat 42s
- Pronova**
mol mass gel chromatog 510
- Propynylaminomethylmethylindole**
deriv structure monoamine oxidase inhibitor 215
- Prostacyclin**
thromboxane receptor phospholipase calcium 99s
- Prostaglandin**
resoln stereoselective prepn review 446
- Prostanoid**
Gs protein downregulation 81s
- Prostate**
cancer acetylneuraminic acid 56s
TRH immunoreactive peptide 327s
- Protease**
Clp activation subunit interaction ATP 719
cysteine cartilage secretion pressure 396s
cysteine sweet protein Thaumatoacus aril 297s
guanidinobenzoate isoenzyme colon tumor 236s
skeletal muscle clenbuterol 214s
- Protein**
ABP platelet glycoprotein Ib actin 1133
actin binding cell fraction 1135
actin binding cytoskeleton review 1016
acute phase blood Crohn colitis 222s
adhesive aorta fetus development 1072
assocn light scattering 489
axon transport Semliki Forest virus 8s
benzodiazepine acceptor mitochondria adrenal gland 11s
benzopyrene binding liver nucleus 182s
calcium binding aorta autoradiog 53s
calcium binding liq chromatog 387s
cAMP kinase II complex liver 1161
cAMP kinase multiple form human 22s
capillary electrophoresis mass spectroscopy 943
cell adhesion review 1076
cerebellum multiple sclerosis 179s
CFTR peptide antibody cystic fibrosis 247s
- cGMP kinase isoenzyme conformation prediction 162s**
chromatog light scattering detector 487
cmyc mRNA polysome cytoskeleton 1108
compactness denaturation 488
complex kinase regulatory subunit 1163
core decorin conformation stability skin 377s
cytoskeleton membrane erythrocyte review 1039
cytoskeleton structure function review 1028
DAP structure uterus 299s
decidualization assocd antiproteinase lymphocyte proliferation 300s
degradn ubiquitin pathway review 726
denatured refolding mitochondria 204s
DMP adhesion tooth mesenchyme 187s
electrospray magnetic sector mass spectroscopy 940
electrospray mass spectrometry 929
elongation factor deuteration Escherichia 284s
exocytosis chromaffin cell review 1090
extn reverse micelle 275s
ferm wheat straw Phanerochaete Chaetomium 68s
fetoprotein formation regulation 324s
fibroblast epidermolysis bullosa 60s
folding proteolysis probe 296s
formation digestive gland alc 165s
formation heart catecholamine 276s
formation heart insulinlike growth factor 277s
formation heart region hypertension 197s
formation intestine inflammatory bowel disease 186s
formation lung starvation feeding 166s
formation muscle inflammatory bowel disease 185s
formation muscle muscular dystrophy mitosis 178s
formation polyribosome cytoskeleton review 1103
formation skeletal muscle alc 167s
G adrenergic receptor myometrium progesterone 181s
G immunodetection plant 239s
G monocyte formyl peptide receptor 98s
G phospholipase A2 review 333
G phospholipase C review 299 342
G receptor cytoskeleton neutrophil 1127
gene SAL4 Saccharomyces allosuppressor translation 281s
Gi lipolysis desensitization adipocyte 212s
glucuronoxylan formation plant membrane 250s
glutamate binding quisqualate muscle 2s
Gs downregulation prostanoid 81s
Gs guanine nucleotide site review 437
heat shock autoimmunity review 171
heavy atom deriv mutagenesis 221s
heparin interaction IR 395s
intermediate filament laminin evolution review 1021
iron binding hypotransferrinemia mouse model 317s
kinase brain phorbol ester 397
kinase C neoplasm 23s

- kinase C neutrophil respiration 77s
kinase C phorbol dibutyrate calcium 150s
kinase C phospholipase A2 pituitary 117s
kinase conformation cGMP lung 163s
kinase pituitary calcium arachidonate 115s
kinase regulatory subunit complex 1163
laser desorption mass spectroscopy 948
M Streptococcus lymphocyte prolifer=ation psoriasis 15s
mass spectroscopy 954
mRNA period gene oscillation review 533
muscle conformation detn review 507
myelin basic regulation glial cell 85s
nucleotide binding regulatory muscle TPA 75s
PABP mRNA cytoskeleton cell growth 1099
phosphatase liver phenylalanine hydroxylase 228s
phosphorylation HL60 differentiation review 315
Plasmodium erythrocyte receptor 39s
polysome cell insulin 1138
proline rich gene parotid isoprenaline 118s
p103 A60 cytoskeleton nerve review 1042
p21ras GTPase mechanism review 432
Ras signal transduction review 296
retrograde transported sepn sciatic nerve 169s
RNA distribution transport cell review 1094
RNA interaction preproinsulin mRNA 120s
secretion pathway Ig histocompatibil=ity antigen 249
sequence alignment interpretation review 523
sequence amino acid repetition 517
sequence Plasmodium review 525
sweet cysteine protease Thaumatoococ=us aril 297s
TonB membrane signal transduction review 530
tyrosine kinase platelet aggregation 1150
virus membrane fusion structure 312s
whey gelation model 508
X homol oxoglutarate dehydrogenase complex 403s
- Proteinase**
cell surface tumor growth 285s
cysteine intestine adenoma carcinoma tumorigenicity 362s
gene cheese Lactococcus review 670
gene cloning HIV1 virus 298s
inhibitor TIMP dog 372s
multicatalytic active site interaction 291s
multicatalytic liver L132 cell 293s
multicatalytic trypsinlike subunit 292s
release cell culture calcium 26s
specificity chromaffin granule adrenal medulla 249s
type family review 707
- Proteoglycan**
cartilage deglycosylation T lympho=cyte 386s
chondroitin sulfate viscoelasticity cartilage review 493
collagen cornea review 877
collagen interaction keratitis dog 353s
dermatan sulfate II folding domain 377s
dermatan sulfate review 866
eye sclera choroidal effusion syn=drome 350s
heparan sulfate biol pathol review 816
keratan sulfate review 871
- Proteoliposome**
oral bacteria targeting 416s
- Proteolysis**
lysosome cytoplasm Saccharomyces review 724
probe protein folding 296s
- Prothrombinase**
platelet taxol 47s
- Proton**
channel NADPH oxidase activation arachidonate 67
correlation spectroscopy circular DNA 511
potassium transport oleate membrane potential 257s
pump valproate liver electron trans=port 253s
translocation transhydrogenase pho=tosynthesis bacteria review 573
trophoblast lactate transport mem=brane 409s
- Protonmotive**
force biol oxidative phosphorylation education 982
- Protoporphyrin**
liver heme oxygenase bilirubin 441s
- Pseudomonas**
degrdn deoxycholate immobilization 52s
DNase 40s
menaquinone 7 steroid dehydrogenase 64s
- Psoriasis**
phospholipase A2 epidermis 91s
Streptococcus M protein lymphocyte proliferation 15s
- Pulsed**
ESR mitochondria complex fumarate reductase 256s
- Purifn**
serotonin reuptake system platelet 103
- Purine**
metabolic disorder adenosylododecane pharmacol 123s
nucleotide lymphocyte 347s
nucleotide metab enzyme lymphocyte leukemia 348s
- Purinergic**
A2 receptor brain 7s
- Pyrethroid**
toxicity enzyme mediation review 737
- Pyroglutamate**
aminopeptidase nerve culture 36s
- Pyrolysis**
mass spectrometry polysaccharide review 935
- Pyruvate**
carboxylase biotin carboxylation 231s
dehydrogenase calcium heart mito=chondria 138s
dehydrogenase E3 binding domain E2 917
- P103**
protein cytoskeleton nerve review 1042
- P388D1**
cell PGE2 binding insulin 358s
- P450**
cytochrome azole fungicide structure review 782
- QLS**
data analysis current method 482
- Quasi**
elec light scattering microbiol 499
- Quasielastic**
light scattering data analysis 482
light scattering membrane structure dynamics 499
light scattering microtubules assembly property 491
light scattering particle wall interac=tion 500
light scattering vesicle neurosecreto=some 501
- Quaternary**
structure bacterioferritin Escherichia 337s
- Quinol**
oxidase bacteria review 608
- Quisqualate**
glutamate binding protein muscle 2s
synaptosome calcium phosphoinosi=tide 148s
- Rabbit**
UDP acetylglucosamine mannoside acetylglucosaminyltransferase review 645
- Radiolabeled**
carnitine CoA ester prepn 174s
- Rana**
metab exercise frog 137s
- Rape**
lipid metab seed development 243s
- Ras**
protein signal transduction review 296
- Rat**
brain protein kinase C 23s
prolactin gene promoter deletion 42s
- Rayleigh**
scattering biomol diffusion detn gel 483
- Receptor**
acetylcholine autoimmunity myasthe=nia gravis review 180
acetylcholine muscle burn 191s
adrenergic binding isoprenaline 357s
adrenergic fibroblast mechanism 102s
adrenergic G protein myometrium progesterone 181s
angiotensin intestine epithelium 440s
antigen phosphatidylinositol thymo=cyte apoptosis 90s
antiidiotypic antibody review 147
binding neurotensin fragment 31s
bombesin phospholipid metab 321
cholecystokinin antagonist review 913
cytoskeleton G protein neutrophil 1127
dopaminergic D1 amino acid residue 142s
dopaminergic D2 antiserum probe 143s
D2 short form 146s
EGF enterocyte basolateral mem=brane 307s
EGF fibroblast diacylglycerol 108s
erythrocyte Plasmodium protein 39s
erythropoietin hematopoietic cell 34s
estrogen ligand review 897
formyl peptide G protein monocyte 98s
GABA antibody review 124
GABA heterogeneity review 129
GABAergic mRNA alternative splic=ing chicken 9s
GABAergic subunit heterogeneity 4s
glucocorticoid progesterone ligand structure 901
glutamate antiidiotypic antibody 143
glutamatergic metabotropic brain calcium 154s

- growth factor fibroblast lung disease 28s
 growth factor squamous carcinoma mouth 189s
 histamine calcium neuroblastoma 6s
 hormone antiidiotypic antibody 138
 hormone biosensor review 32
 hormone nucleus drug screening review 894
 hormone signal transduction review 402
 hormone signalling phospholipase review 329
 inositol polyphosphate brain 151s
 insulin tyrosine kinase structure review 426
 insulinlike growth factor placenta 63s
 interleukin 4 lymphocyte Ig surface 272
 LDL lymphocyte beta adrenergic 41s
 muscarinic lung 145s
 muscarinic neuron phosphoinositide metab review 416
 muscarinic phosphoinositide neuroblastoma 103s
 muscarinic structure function 133
 neurokinin 2 brain 13s
 neurotensin analog binding brain 12s
 nicotinic brain review 121
 nicotinic monoclonal antibody review 115
 purinergic A2 brain 7s
 ryanodine gene muscle malignant hyperthermia 46s
 serotonin 51a cell 144s
 tachykinin antagonist review 909
 thyroid hormone mRNA Xenopus egg 203s
 tyrosine kinase insulin EGF 420s
 vasopressin V1a ligand 87s
- Recombinant**
 procollagenase 371s
- Redn**
 iron intestine 316s
- Redox**
 enzyme lab expt 401s
- Reductase**
 aldose mRNA basement membrane diabetes 367s
 dihydrofolate methotrexate binder Saccharomyces 192s
 dihydrofolate uromastix 193s
 DMSO nitrate bacteria review 605
 fumarate pulsed ESR Escherichia 256s
 succinate fumarate iron sulfur cluster 599
- Refolding**
 denatured enzyme mitochondria 204s
- Regeneration**
 peripheral nerve tubulin tyrosine 1143
- Regulatory**
 implication authority perspective 465
 implication committee member perspective 463
 implication company perspective 467
 implication patent lawyer perspective 469
- Relaxin**
 uterus contraction inhibition cAMP 356s
- Remnant**
 chylomicron uptake liver 326s
- Replication**
 HIV1 virus inhibition gene rep 438s
- Reptile**
 dihydrofolate reductase evolution 193s
- Resistance**
 drug tumor xray 278s
- Resoln**
 prostaglandin review 446
- Respiration**
 neutrophil protein kinase C 77s
- Respiratory**
 burst motility exocytosis neutrophil review 55
 burst NADPH oxidase deactivation review 51
 burst NADPH oxidase gene review 63
 burst taurine Hepes antiinflammatory 73
 electron transport bacteria lab expt 976
- Reticulocyte**
 ribosome complex eIF 2alpha kinase 282s
- Reticulum**
 sarcoplasmic halothane calcium release 355s
- Retina**
 catalase detn herbicide 443s
 pericyte culture collagen Matrigel 368s
- Retrovirus**
 RNA packaging review 963
 vector review 379
- Reverse**
 micelle enzyme characterization application review 666
 micelle protein extn 275s
- Review**
 actin binding protein cytoskeleton 1016
 actin microfilament metab cell 1120
 allylamine deriv fungicide squalene epoxidase 774
 alpha actinin actin integrin linkage 1065
 amino acid plasma fatigue 358
 anion transport eye 849
 ankyrin diversity brain 1034
 antibiotic microorganism food 694
 antibody intracellular antigen autoimmune disease 159
 antigen membrane endocrine neuron 4179
 arachidonate long term potentiation 391
 arachidonate metab neuron signaling 387
 artery intima lipoprotein atherosclerosis 235
 autoantigen biliary cirrhosis 196
 autoimmunity acetylcholine receptor myasthenia gravis 180
 azole fungicide sterol demethylase structure 778
 bacteria electron transfer NADH cytochrome 581
 bacteria hemolysin P glycoprotein superfamily 252
 biopolymer mol mass conformation 493
 biosensor clin data analysis 11
 biosensor intracorporeal 9
 cadherin I II III desmosome 1060
 calorimetric biosensor 26
 Candida azole fungicide sterol demethylase 782
 cell adhesion protein 1076
 chiral drug metab 456
 chiral drug sepn liq chromatog 454
 cholecystokinin receptor antagonist 913
 clin pharmacol chirality 460
 cloning UDP acetylglucosamine mannoside acetylglucosaminyltransferase 645
 collagen type VI cell adhesion 843
 conformation muscle protein detn 507
- creatine kinase heart 1006
 crystallin interaction eye 853
 cyclic nucleotide phosphodiesterase kinetics 397s
 cytochrome o aa3 oxidase 613
 cytochrome oxidase ligation oxidation state 617
 cytoskeleton protein structure function 1028
 dermatan sulfate proteoglycan 866
 dielec biosensor 21
 diffusion biopolymer polymer soln 481
 DMSO nitrate reductase bacteria 605
 drug autoimmune disease 153
 drug development chirality 443 472
 drug immune complex disease 164
 elastin mol biol pathol 824
 electrochem biosensor extracorporeal 5
 electrospray mass spectrometry biol 929
 endopeptidase type family 707
 energy metab muscle contraction 353
 environmental pollution monitoring microbe biosensor 15
 enzyme electrode 1
 enzyme reverse micelle characterization application 666
 erythrocyte membrane cytoskeleton protein 1039
 Escherichia capsule gene organization regulation 628
 Escherichia capsule polysaccharide 623
 estrogen antagonist 899
 estrogen receptor ligand 897
 exocytosis calcium calpactin cytoskeleton 1085
 extracellular matrix metalloproteinase specificity activation 715
 eye macromol vitreous humor 868
 fibril assocd collagen structure function 820
 fibronectin integrin cell adhesion migration 830
 food enzyme engineering thermal stability 655
 fructan property use food 555
 fructan quality formation crop plant 569
 fructooligosaccharide 561
 G protein phospholipase C 342
 GABA receptor antibody 124
 GABA receptor heterogeneity 129
 glycolysis organization cell ultrastructure 986
 glycosyltransferase asparagine linked glycoprotein formation 642
 GTPase mechanism protein p21ras 432
 guanine nucleotide site protein Gs 437
 halothane hepatitis mol basis 191
 heat shock protein autoimmunity 171
 hematopoietic cell growth differentiation 303
 heparan sulfate proteoglycan biol pathol 816
 hormone receptor biosensor 32
 hormone receptor signalling phospholipase 329
 immunol optical biosensor 18
 inositol lipid metab hippocampus 407
 inositol phosphate intracellular metab 888
 insecticide resistance esterase 755
 insecticide resistance stored product pest 759
 insecticide toxicity enzyme mediation 737

- insulin receptor tyrosine kinase structure 426
 integrin thrombosis wound healing cancer 835
 interleukin 1 beta thioredoxin secretion pathway 255
 interleukin 2 transmembrane signaling 277
 interleukin 4 signal B lymphocyte 287
 intermediate filament protein laminin evolution 1021
 keratan sulfate proteoglycan 871
 keratin gene expression skin disease 1112
 lactate bacteria peptidase flavor peptide 685
 laminin subunit assocn isoform 839
 light scattering biopolymer 478
 malaria antigen sequence Plasmodium 525
 mass spectrometry bacteria oligosaccharide 922
 membrane signal transduction TonB model 530
 methyl dopa immune hemolytic anemia autoantibody 183
 microbicidal oxidase component phagocyte 49
 microorganism flavor manuf 690
 microtubule dynamic instability phys mechanism 1023
 monoamine oxidase A B 199
 monoamine oxidase active site 207
 monoamine oxidase B mechanism 219
 monoamine oxidase mechanism 201
 monoamine oxidase substrate product 224
 monoamine oxidase tertiary amine 211
 morpholine fungicide 788
 muscarinic receptor 133
 muscarinic receptor neuron phosphoinositide metab 416
 muscle contraction energy metab fatigue 347
 muscle gene exercise 374
 myeloid growth factor 307
 myopia sclera structure biochem mechanism 861
 myosin actin nucleotide interaction 423
 NADPH oxidase deactivation respiratory burst 51
 NADPH oxidase gene respiratory burst 63
 NADPH oxidase mechanism inhibitor 70
 nerve cytoskeleton protein p103 A60 1042
 neutrophil motility exocytosis respiratory burst 55
 nicotinic receptor brain 121
 nicotinic receptor monoclonal antibody 115
 NMR enzyme structure function cell 997
 NMR spectrometry biochem 243
 nucleic acid biosensor 39
 nucleus hormone receptor drug screening 894
 oncogene histocompatibility antigen 291
 org phase biosensor 28
 PCB vitamin A thyroid hormone 731
 period gene protein mRNA oscillation 533
 pesticide toxicity bird 741
 phage resistance lactic acid bacteria 675
 phorbol ester protein kinase brain 397
 phosphoinositide specific phospholipase C 337
 phospholipase A2 G protein 333
 phospholipase C G protein 299
 phospholipase D regulation function 324
 phospholipase D signal transduction 402
 photoreceptor signal transduction eye 858
 piezoelec biosensor 44
 plant tissue culture flavor 702
 polarized epithelium membrane ATPase 1055
 prostaglandin resolu stereoselective prepn 446
 protein degradn ubiquitin pathway 726
 protein exocytosis chromaffin cell 1090
 protein phosphorylation HL60 differentiation 315
 protein RNA distribution transport cell 1094
 protein sequence alignment interpretation 523
 proteinase gene cheese starter culture 670
 proteoglycan collagen cornea 877
 pyrolysis mass spectrometry polysaccharide 935
 quinol cytochrome oxidase bacteria 608
 Ras protein signal transduction 296
 receptor antiidiotypic antibody 147
 retrovirus vector 379
 Rhizobium exopolysaccharide genetics symbiosis 636
 ribosome mRNA cytoskeleton 1103
 RNA packaging retrovirus 963
 Saccharomyces proteolysis lysosome cytoplasm 724
 semicarbazide sensitive amine oxidase 228
 sensor odor detection 36
 serotonin transporter platelet probe 112
 site directed drug design computer 883
 starch formation pathway pea embryogenesis 547
 starch formation regulation plant 539
 sterol biochem filamentous fungi 769
 sterol metab enzyme cloning Neurospora 799
 sulfur poor prolamin structure cereal 528
 synaptosome neurotransmitter antibody 87
 syndecan growth regulation neoplastic transformation 1069
 tachykinin receptor antagonist 909
 thimet oligopeptidase carboxyphenylpropylpeptide inhibitor 290s
 transforming growth factor alpha 259
 transhydrogenase proton translocation photosynthesis bacteria 573
 tricarboxylic acid cycle enzyme metabolism 1002
 viscoelasticity proteoglycan mucin glycoprotein 493
 xenobiotic activation marine invertebrate 751
Rheumatoid
 arthritis aminopeptidase synovial fluid 215s
Rhizobium
 exopolysaccharide genetics symbiosis review 636
 galactosidase divalent metal cation 19s
Rhodobacter
 cytochrome bc complex dimer ubiquinol 588
Rhodopsin
 photoreceptor signal transduction eye 858
Rhythm
 bile acid ileum feces 224s
Ribosome
 binding erythromycin A structure 313s
 complex eIF 4E heme kinase 282s
 mRNA cytoskeleton review 1103
RIE1
 cell angiotensin receptor 440s
Rigor
 mortis ATPase muscle 38s
RNA
 antisense immunodeficiency virus inhibition 437s
 packaging retrovirus review 963
 protein distribution transport cell review 1094
 protein interaction preproinsulin mRNA 120s
 U6 gene sequence potato 340s
 U7 gene mouse promoter Xenopus 339s
 U7 gene mouse transcription 342s
 U7 mouse Xenopus oocyte 341s
Rodlike
 macromol light scattering theory 503
 polyelectrolyte light scattering 482
Rous
 sarcoma virus promoter cloning plasmid 139s
Rouse
 Zimm model circular DNA 511
Rumen
 fatty acid feed yeast 72s
Ruminant
 feeding absorption gastric inhibitory polypeptide 315s
Rx
 kinase lung 157s
Ryanodine
 receptor gene muscle malignant hyperthermia 46s
Rye
 sulfur poor prolamin review 528
Saccharomyces
 gene SAL4 protein allosuppressor translation 281s
 methotrexate binder dihydrofolate reductase 192s
 proteolysis lysosome cytoplasm review 724
 sterol azole fungicide 796
 sterol demethylase mol model 793
Salmo
 gene TSH smolting sexual maturation 199s
Salmon
 gene TSH smolting sexual maturation 199s
Salsola
 aziridine identification mass spectrometry copy 432s
Sarcoplasmic
 reticulum ATPase phosphorylation domain 205s
 reticulum calcium flux detn 183s
 reticulum halothane calcium release 355s
Satellite
 cell muscular dystrophy protein formation 178s
Scattering
 laser light physiol 514
 laser light protein 488
 laser light protein review 507
 laser polysaccharide gel 495
 light application microbiol 499
 light biopolymer review 478
 light casein micelle suspension 489
 light detector protein chromatog 487
 quasielastic light data analysis 482

- Schistocerca
fat body inositol phosphate 104s
- Schizophrenia
platelet PGE1 ADP polemic 155s
- Sciatic
nerve retrograde transported protein
sepn 169s
- Science
life education bioenergetics 967
- Scintillation
proximity assay transforming growth
factor 238s
- Sclera
eye proteoglycan 350s
structure myopia biochem mechanism
review 861
- Second
deriv UV spectrometry protein 296s
- Secretion
bovine chymosin *Aspergillus* 681
chymosin insulin fusion product
Trichoderma 248s
cysteine protease cartilage pressure
396s
protein pathway Ig histocompatibility
antigen 249
- Seed
development rape lipid metab 243s
- Seizure
phosphoinositide metab hippocampus
review 407
- Selenium
tocopherol deficiency cattle lipid
peroxidn 61s
- Semialdehyde
glutamate stability reductase kinetics
pea 319s
- Semicarbazide
sensitive amine oxidase review 228
- Semliki
Forest virus protein axon transport
8s
- Senescence
heart energy metab creatine 208s
- Sensor
odor detection review 36
- Sepn
chiral drug liq chromatog review 454
- Sequence
catechol methyltransferase placenta
20s
gene collagenase pig 288s
gene U6 RNA potato 340s
homol collagen complement factor
365s
human collagen X gene 804
lysozyme bone 374s
MAO A B review 199
metalloendopeptidase insulinase
superfamily 289s
osteocalcin rabbit 373s
protein alignment interpretation
review 523
protein amino acid repetition 517
protein *Plasmodium* review 525
- Serotonin
reuptake system purifn platelet 103
51a receptor cell 144s
transporter brain purifn characteriza=
tion 99
transporter platelet membrane 95
transporter platelet probe review
112
- Serotonergic
51a receptor CHO DHFR cell 144s
- Serum
acetylneuraminic acid detn 56s
apolipoprotein B prediction 211s
cypermethrin hydrolysis sexual di=
morphism 303s
lipid high altitude exercise 135s
paraoxonase specificity 304s
- Sexual
dimorphism cypermethrin hydrolysis
chicken 303s
- maturation smolting *Salmo* gene
TSH 199s
- Shape
size branching biopolymer review
493
- Sheep
feeding absorption gastric inhibitory
polypeptide 315s
insulin glucagon like peptide 311s
lipogenesis adipose gastrointestinal
hormone 309s
- Signal
transduction antigen natural killer
lymphocyte 265
transduction calmodulin lucerne
190s
transduction hormone phosphoinosi=
tide review 888
transduction membrane TonB model
review 530
transduction phosphatidylinositol
metab brain 156s
transduction phospholipase D review
324 402
transduction photoreceptor rhodopsin
eye 858
transduction Ras protein review 296
- Signalling
hormone receptor phospholipase
review 329
- Site
directed drug design computer review
883
specific mutation chymosin pH profile
266s
specific mutation chymosin specificity
modification 267s
- Sitosterol
degrdn thermophilic bacteria 52s
- Size
exclusion chromatog biopolymer
review 493
shape branching biopolymer review
493
- Skeletal
muscle protease clenbuterol 214s
muscle protein formation alc 167s
- Skin
decorin protein core conformation
stability 377s
disease keratin gene expression review
1112
fibroblast collagen ascorbate isoascor=
bate 48s
hyaluronan type VI collagen 384s
microfibril collagen fibrillin embryo
383s
- Smoking
cigaret diphosphoglycerate erythro=
cyte 407s
- Smolting
sexual maturation *Salmo* gene TSH
199s
- Smooth
muscle calpain II subunit ubiquitina=
tion 410s
- Snail
aminopeptidase 30s
digestive enzyme 334s
foot muscle peptidase 295s
- Sodium
alginate mol mass detn 510
heparin binding delocalized 390s
lithium countertransport erythrocyte
vertebrate 408s
serotonin transporter platelet mem=
brane 95
transporting NADH ubiquinone oxi=
doreductase *Vibrio* 251s
- Soluble
elastin detn dye binding assay 388s
- Somatostatin
lipogenesis adipose sheep 309s
- Somatotropin
insulinlike growth factor liver 33s
proteolysis thermolysin 296s
- Spectrometry
mass bacteria oligosaccharide review
922
mass electrospray biol 929
mass pyrolysis polysaccharide review
935
near IR blood tissue oxygenation
514
NMR biochem review 243
NMR metabolite heart perfusion
209s
second deriv UV protein 296s
- Spectrophotometry
thiobarbituric acid acetylneuraminat
56s
- Spectroscopy
biopolymer 486
laser desorption mass protein 948
mass aziridine identification *Salsola*
432s
mass capillary electrophoresis peptide
protein 943
mass computer program biopolymer
957
mass electrospray magnetic sector
protein 940
mass protein 954
photon correlation fermn microbial
contamination 513
photon correlation particle drug 502
proton correlation circular DNA 511
- Sperm
lipid peroxidn Caprogen cattle 158s
penetration assay fertility detn 434s
proacrosin zona pellucida glycoprotein
site 412s
- Spermine
liver phosphatidate phosphohydrolase
translocation 321s
- Spleen
cell mitogen interleukin 5 331s
lipoprotein formation 325s
- Splicing
alternative chicken GABAergic recep=
tor mRNA 9s
- Squalene
epoxidase allylamine deriv fungicide
review 774
- Squamous
carcinoma mouth growth factor recep=
tor 189s
- SR
4233 DNA damage hypoxia 127s
- Starch
formation pathway pea embryogenesis
review 547
formation regulation plant review
539
granule structure organization plant
551
- Starvation
feeding lung protein formation 166s
- Steroid
A ring dehydrogenase menaquinone 7
64s
- Sterol
biochem filamentous fungi review
769
demethylase azole fungicide *Candida*
review 782
demethylase azole fungicide structure
review 778
demethylase mol model *Saccharomyc*=
es 793
formation lactate brain newborn
141s
formation *Neurospora* cytochrome
P450 mutation 799
plant biodegrdn 52s
Saccharomyces azole fungicide 796
- Stomach
chymosin A B recombinant 663
EGF diacylglycerol formation 107s
- Stored
product pest insecticide resistance
review 759

- Straw**
 wheat protein fernm Phanerochaete
 Chaetomium 68s
- Streptococcus**
 M protein lymphocyte proliferation
 psoriasis 15s
- Stretch**
 muscle myosin gene switching 368
- Structure**
 azole fungicide sterol demethylase
 review 778
 cytochrome P450 azole fungicide
 review 782
 erythromycin A ribosome binding
 313s
 ligand glucocorticoid progesterone
 receptor 901
 muscarinic receptor 133
 NADP NAD dehydrogenase catalysis
 modeling 576
 oxalylglycine deriv inhibitor prolyl
 hydroxylase 812
 propynylaminomethylmethylindole
 deriv monoamine oxidase inhibitor
 215
- Subunit**
 assocn monoamine oxidase B 24s
 calpain II ubiquitination smooth
 muscle 410s
 glutathione S transferase 17s
 interaction Clp protease activation
 ATP 719
 laminin assocn isoform review 839
 multicatalytic proteinase trypsinlike
 292s
- Succinate**
 reductase iron sulfur cluster 599
- Sucrose**
 fructosyltransferase barley onion
 fructan formation 565
- Sugar**
 UDP cartilage oxygen 364s
- Sulfonation**
 glycosaminoglycan artery deendothe=
 lialization 435s
- Sulfur**
 amino acid neurotransmitter release
 3s
 iron cluster ferredoxin bacteria 594
 iron cluster membrane mitochondria
 ESR 256s
 iron cluster succinate fumarate reduc=
 tase 599
 oxidn thioamide liver microsome
 233s
 poor prolamin structure cereal review
 528
- Superoxide**
 dismutase erythrocyte fetus hypoxia
 anemia 227s
 formation neutrophil cAMP cGMP
 analog 59
 monocyte granulocyte colony stimu=
 lating factor 237s
 neutrophil endotoxin cell differentia=
 tion 96s
- Supported**
 liq membrane org acid extn 274s
- Surface**
 Ig interleukin 4 receptor lymphocyte
 272
- Sweet**
 protein cysteine protease Thaumato=
 coccus aril 297s
- Symbiosis**
 exopolysaccharide Rhizobium review
 636
- Synaptosome**
 calcium phosphoinositide 148s
 GABAergic cerebellum development
 methylazoxymethanol 431s
 glutamate release perfusion rate
 147s
 neurotransmitter antibody review 87
- Syndecan**
 growth regulation neoplastic transfor=
 mation review 1069
- Synovial**
 fluid aminopeptidase rheumatoid
 arthritis 215s
 fluid collagen cartilage degrdn arthri=
 tis 375s
- Synthetase**
 ADP glucose regulation plant review
 539
 fatty acid diflufenican 320s
- T**
 cell kinase tyrosine phosphorylation
 269
 cell response human cartilage antigen
 378s
 lymphocyte antigen CD4 CD8 diabe=
 tes 187
 lymphocyte cartilage proteoglycan
 deglycosylation 386s
 lymphocyte eicosanoid 88s
- Tachykinin**
 receptor antagonist review 909
- Taenia**
 coli contraction neurotensin fragment
 31s
- Talaromyces**
 xylan degrading enzyme component
 25s
- Tandem**
 mass spectroscopy 943
- Taurine**
 Hepes antiinflammatory respiratory
 burst 73
- Taxol**
 platelet prothrombinase 47s
- TCR**
 phosphatidylinositol thymocyte apop=
 tosis 90s
- Teichoate**
 Lactobacillus cell wall arthritis 404s
- Tertiary**
 amine monoamine oxidase review
 211
- Testis**
 membrane inositol trisphosphate
 phosphatase 105s
- Testosterone**
 metab gingiva fibroblast inflammation
 mediator 92s
 phospholipid liver plasma 345s
- Thaumatococcus**
 thaumatopain aril Thaumatooccus
 297s
- Thaumatococcus**
 aril thaumatin thaumatopain 297s
- Thaumatopain**
 thaumatin aril Thaumatooccus
 297s
- Thermal**
 stability food enzyme engineering
 review 655
- Thermodn**
 polyelectrolyte semidil soln 482
- Thermolysin**
 somatotropin proteolysis 296s
- Thermophilic**
 bacteria sitosterol degrdn 52s
- Thimet**
 oligopeptidase carboxyphenylpropyl=
 peptide inhibitor review 290s
- Thioamide**
 sulfur oxidn liver microsome 233s
- Thiobarbituric**
 acid spectrophotometry acetylneura=
 minate 56s
- Thioredoxin**
 interleukin 1beta secretion pathway
 review 255
- Threonine**
 aldolase liver 346s
- Thrombin**
 monocyte calcium inositol trisphosp=
 hate 89s
- Thrombosis**
 integrin review 835
- Thromboxane**
 receptor phospholipase calcium pros=
 tacyclin 99s
- Thylakoid**
 cytochrome oxidase ionic strength
 Anacystis 252s
- Thymine**
 dimer DNA UV ELISA 442s
- Thymocyte**
 apoptosis TCR phosphatidylinositol
 90s
- Thymus**
 glucose galactosyltransferase activa=
 tion manganese 235s
- Thyroid**
 hormone PCB review 731
 hormone receptor mRNA Xenopus
 egg 203s
- Thyroliberin**
 degrdn enzyme nerve culture 36s
- Time**
 of flight mass spectroscopy 954
- TIMP**
 collagenase complex ELISA 287s
 proteinase inhibitor dog 372s
- Tissue**
 accumulation gentamicin pharmacoki=
 netics toxicity 128s
 inhibitor metalloproteinase collage=
 nase complex ELISA 287s
 oxygenation near IR spectrometry
 514
- Toad**
 bladder osmolality bioassay vasopres=
 sin 124s
- Tocopherol**
 selenium deficiency cattle lipid perox=
 idn 61s
- TonB**
 membrane signal transduction model
 review 530
- Tooth**
 mesenchyme DMP protein adhesion
 187s
- Total**
 intensity light scattering microbiol
 499
- Toxin**
 Phormidium purifn 428s
- TPA**
 nucleotide binding regulatory protein
 muscle 75s
- Trace**
 metal inositol hexakisphosphate
 nerve 152s
- Transcription**
 factor ligand response gene Xenopus
 330s
 factor Pit1GHF1 Pit Oct element
 43s
 gene U7 RNA mouse 342s
- Transducer**
 pressure assay hydrogenophilic meth=
 anogen 70s
- Transduction**
 signal phospholipase D review 324
- Transferase**
 glutamyl detn oxidized glutathione
 51s
 glutamyl detn substrate organ 49s
 glutathione isoenzyme marine fish
 HPLC 302s
 glutathione S fungus mammal 17s
- Transferrin**
 mitochondria liver 67s
- Transformation**
 lipofectin chicken fibroblast plasmid
 pSV2 328s
 neoplastic syndecan growth regulation
 review 1069
- Transforming**
 growth factor alpha review 259
 growth factor beta squamous carcino=

- ma 189s
 growth factor scintillation proximity assay 238s
Transhydrogenase
 proton translocation photosynthesis bacteria review 573
Translation
 elongation factor EF3 yeast 279s
Translocation
 phosphatidate phosphohydrolase liver oleate spermine 321s
Transmembrane
 signalling interleukin 2 review 277
Transport
 adenosine brush border kidney 323s
 anion eye review 849
 axon protein Semliki Forest virus 8s
 calcium calcium mammary Golgi membrane 194s
 calcium inositol trisphosphate phago= cyte endotoxin 95s
 calcium neutrophil lipoxin A4 78s
 cation anion channel brain microsome 255s
 chloride intestine fat diet 241s
 desferrioxamine kidney 217s
 electron valproate liver proton pump 253s
 inositol cell differentiation 86s
 lactate membrane proton trophoblast 409s
 lithium sodium erythrocyte mammal 408s
 nucleoside erythrocyte tryptophan 418s
 protein RNA cell review 1094
 proton potassium oleate membrane potential 257s
Transported
 retrograde protein sepn sciatic nerve 169s
Transporter
 glucose erythrocyte 417s
 hydroxytryptamine photoaffinity label platelet 10s
 serotonin brain purifn characteriza= tion 99
 serotonin platelet membrane 95
 serotonin platelet probe review 112
TRH
 immunoreactive peptide prostate 327s
Triacylglycerol
 serum apolipoprotein B 211s
Tricarboxylic
 acid cycle enzyme metabolon review 1002
Trichoderma
 chymosin A gene cloning 663
 chymosin insulin fusion gene 248s
Tricosan
 proteoliposome oral bacteria 416s
Trophoblast
 lactate transport membrane proton 409s
Troponin
 I heart monoclonal antibody 161s
Trypsinlike
 subunit multicatalytic proteinase 292s
Tryptophan
 nucleoside transport erythrocyte 418s
TSH
 gene smolting sexual maturation Salmo 199s
Tubulin
 tyrosine peripheral nerve regeneration 1143
Tumor
 breast urokinase plasminogen activa= tor mRNA 44s
 cell immunoliposomes targeting 415s
 colon guanidinobenzoate protease isoenzyme 236s
 drug resistance xray 278s
 growth proteinase cell surface 285s
 protein kinase multiple form human 22s
 surface guanidinobenzoate plasm= nogen activator 427s
TXB2
 monocyte thrombin 89s
Type
 IX collagen vitreous body cartilage 351s
 VI collagen hyaluronan skin 384s
Tyrosine
 kinase insulin EGF receptor 420s
 kinase review insulin structure recep= tor 426
 phosphorylation phospholipase C activation lymphocyte 269
 protein kinase platelet aggregation 1150
 tubulin peripheral nerve regeneration 1143
Ubiquinol
 cytochrome bc complex dimer Rhodo= bacter 588
Ubiquinone
 NADH oxidoreductase Vibrio 251s
Ubiquitin
 pathway protein degrdn review 726
Ubiquitination
 calpain II subunit smooth muscle 410s
UDP
 acetylglucosamine mannoside acetyl= glucosaminyltransferase cloning review 645
 galactose epimerase lipopolysacchar= ide locus Haemophilus 631
 sugar cartilage oxygen 364s
Ulcerative
 colitis blood fucosylated haptoglobin 264s
Ultracentrifugation
 mol wt detn humic substance 414s
Ultrastructure
 cell glycolysis organization review 986
Umbilical
 cord Wharton jelly fibroblast 29s
Uptake
 chylomicron remnant liver 326s
 iron redn intestine 316s
Urine
 betaine homocysteine methyltransfer= ase detn NMR 402s
Urokinase
 plasminogen activator mRNA breast tumor 44s
Uromastix
 dihydrofolate reductase 193s
Uterus
 contraction inhibition relaxin cAMP 356s
 decidualization assoc glycoprotein structure 299s
 lactate dehydrogenase isoenzyme 21s
UV
 DNA thymine dimer ELISA 442s
 laser DNA formation mammal cell 119s
 second deriv spectrometry protein 296s
Valine
 dipeptide reaction ninhydrin deriv 234s
Valproate
 liver electron transport proton pump 253s
Vasopressin
 detn bioassay 124s
 muscle fetus newborn 175s
 V1a receptor ligand 87s
Vector
 retrovirus review 379
Vecuronium
 creatine kinase leakage pancuronium 336s
 pancuronium lactate dehydrogenase creatine kinase 423s
Vertebrate
 erythrocyte lithium sodium counter= transport 408s
 neurohypophyses vesicle neurosecre= tosome size dispersity 501
Verticillium
 elicitation inositol triphosphate lu= cerne 94s
Vesicle
 neurosecretosome size dispersity vertebrate neurohypophyses 501
Vibration
 carboxylate heparin dication complex 394s
Vibrio
 sodium transporting NADH ubiqui= none oxidoreductase 251s
Virus
 Coxsackie B4 pancreas preproinsulin mRNA 398s
 herpes DNA brain Alzheimer disease 122s
 HIV1 proteinase gene cloning 298s
 HIV1 replication inhibition gene rep 438s
 immunodeficiency inhibition antisense RNA 437s
 membrane fusion protein structure 312s
 retro vector review 379
 Rous sarcoma promoter cloning plas= mid 139s
 Semliki Forest protein axon transport 8s
Viscoelasticity
 proteoglycan mucin glycoprotein review 493
Vitamin
 A PCB review 731
 D metabolite calcium hippocampus cytosol 82s
 K2 free radical mutagenicity 426s
Vitreous
 body cartilage type IX collagen 351s
 humor macromol eye review 868
Wall
 particle interaction quasielastic light scattering 500
Water
 glycopeptide conformation freedom 405s
 pollution glutathione transferase isoenzyme Mugil 302s
Wharton
 jelly fibroblast umbilical cord 29s
Wheat
 amylase isoenzyme germination aging 360s
 straw protein fermn Phanerochaete Chaetomium 68s
 sulfur poor prolamin review 528
Whey
 protein gelation model 508
Wormlike
 chain model circular DNA 511
Wound
 healing integrin review 835
X
 ray carcinoma cisplatin sensitivity 121s
 ray neoplasm inhibitor multidrug resistance 125s
 ray scattering protein 488
Xanthan
 guar gum gelation galactosidase 269s
Xanthine
 dehydrogenase domain role Drosophi= la 260s
 oxidase milk 332s

- Xenobiotic
 - activation marine invertebrate review 751
- Xenopus
 - egg thyroid hormone receptor 203s
 - mouse U7 RNA gene promoter 339s
 - oocyte U7 RNA mouse 341s
 - transcription factor ligand response gene 330s
- Xray
 - tumor drug resistance 278s
- Xylan
 - degrading enzyme component Penicillium Talaromyces 25s
- Yeast
 - feed rumen fatty acid 72s
 - fumarase isoenzyme mitochondria cytosol 18s
 - gene HSP26 mRNA leader 280s
 - glycosylation pathway enzyme gene review 642
 - proteolysis lysosome cytoplasm review 724
 - translation elongation factor EF3 279s
- Yersinia
 - cytotoxin actin microfilament disruption 1131
- Zeta
 - potential particle drug carrier 502
- Zinc
 - intestine metallothionein formation 283s
- Zona
 - pellucida glycoprotein site proacrosin sperm 412s

- Bailey, C. J.** See Moynagh, P. N.
Baines, A. J. See Hayes, N. V. L.
Baker, P. See Imray, C. H. E.
Baker, P. G.
 —; Thompson, J. S.; Brass, A.
 Computer simulations of the effect of glycosylation on the conformational freedom of peptides. 405s
Baker, P. R. See Davis, A. E.
Balduini, C.
 —; De Luca, G.; Passi, A.; Rindi, S.; Salvini, R.; Scott, J. E.
 Differential effect of oxygen supply and lactate concentration on keratan sulfate and glycosaminoglycuronan production in bovine cornea. 354s
Ball, K. See Preiss, J.
Balsa, D.
 —; Fernandez-Alvarez, E.; Tipton, K. F.; Unzeta, M.
 Monoamine oxidase inhibitory potencies and selectivities of 2-[N-(2-propynyl)-aminomethyl]-1-methyl indole derivatives. 215
Banerjee, A. K.
 —; Marway, J. S.; Preedy, V. R.; Peters, T. J.
 Gut protein synthetic studies in an NSAID model of inflammatory bowel disease (IBD). 186s
 —; Preedy, V. R.; Peters, T. J.
 Selective increases in type II muscle protein synthesis in NSAID induced inflammatory bowel disease (IBD). 185s
Banks, B. E. C.
 Trough levels of gentamicin do not indicate tissue accumulation. 128s
Banner, M. See Haslam, J.
Barber, J. See Gyi, J. I.; Kennedy, K.
Barcena, J. A. See Pascual, P.
Bardeletti, G. See Coulet, P. R.
Barinaga, C. J. See Edmonds, C. G.
Barker, C. J. See Pancholi, S.
Barker, G. See Imray, C. H. E.
Barnes, J. See Rogers, A. T.
Barnes, M. J. See Morton, L. F.
Barrett, A. J. See Knight, C. G.; Rawlings, N. D.
 —; Rawlings, N. D.
 Types and families of endopeptidases. 707
Bartlett, P. See Dodd, G.
Bashir, M. M. See Uitto, J.
Bateman, O. A. See Slingsby, C.
Bateson, A. N. See Glencorse, T. A.; Lasham, A.
Batstone, F. R.
 —; Grey, S. R.; Richardson, P. J.
 Purification and characterization of a quisqualate sensitive glutamate binding protein. 2s
Baxter, M. A. See Lord, J. M.
 —; Grafton, G.; Bunce, C. M.; Lord, J. M.; Mitchell, R. H.; Brown, G.
 The role of inositol transport in cellular differentiation. 86s
Baydoun, E. A. H. See Hobbs, M. C.
 —; Hobbs, M. C.; Delarge, M. H. P.; Farmer, M. J.; Waldron, K. W.; Brett, C. T.
 Formation of glucuronoxylan linked to protein in plant Golgi and plasma membranes. 250s
Bayley, P. M. See Munoz, F. M.
 —; Martin, S. R.
 Microtubule dynamic instability: some possible physical mechanisms and their implications. 1023
Bazzoni, F. See Cassatella, M. A.
Beattie, J.
 —; Flint, D. J.
 Hormonal control of insulin like growth factor 1 (IGF-1) secretion in a cell line derived from normal adult rat liver. 33s
Beck, K. See Engel, J.
Beckett, A. H.
 Chirality and its importance in drug development: what are the issues? 443
Behrend, T. L. See Lowe, J. B.
Behzad, F.
 —; Jones, C. J. P.; Aplin, J. D.
 The role of integrin $\alpha 6 \beta 4$ in hemidesmosomes of human amnion. 381s
Beidler, D. See Humphreys, C. J.
Belfield, G. P. See Colthurst, D. R.
Belkin, A. M. See Kotelyanskii, V. E.
Bell, G. See Imboden, J. B.
Bellhouse, A. F. See Hunt, A. N.
Belt, S. E. See Green, A.
Belton, N. R. See Dyer, J. J.
Benboubetra, M. See Harrison, R.
Bennett, B. See Hughes, R. K.
Bennett, S. E.
 —; Bevington, A.; Walls, J.
 Active accumulation of creatine by cultured rat myoblasts. 172s
Bennett, V.
 —; Otto, E.; Kunitomo, M.; Kordeli, E.; Lambert, S.
 Diversity of ankyrins in the brain. 1034
Benson, N. See McEwan, A. G.
Benyon, D. See Chittock, R. S.
Berger, L. C. See Larson, D. E.
Bergin, S. See Chopra, R.
Beri, R.
 —; Chandra, R.
 Biochemical changes in liver function due to prolonged administration of Co-protoporphyrin. 441s
Berka, R. M.
 —; Kodama, K. H.; Rey, M. W.; Wilson, L. J.; Ward, M.
 The development of *Aspergillus niger* var. *awamori* as a host for the expression and secretion of heterologous gene products. 681
Berks, B. C.
 —; Ferguson, S. J.
 Simplicity and complexity in electron transfer between NADH and c-type cytochromes in bacteria. 581
Berns, G. J. See Kinsella, V. A.
Bernstein, R. M.
 Antibodies to intracellular antigens in systemic autoimmune disease. 159
Berovic, N. See Chittock, R. S.
Berry, M. See Corfield, A. P.
Betteridge, D. J. See Cooper, M. B.
Bevan, S. J.
 —; Parry-Billings, M.; Opara, E.; Newsholme, E. A.
 The effect of cell volume on the rate of lactate release from rat skeletal muscle. 198s
Bevington, A. See Bennett, S. E.; Kemp, G. J.
Beynon, L. See Lam, Z.
Beynon, R. J. See Ramzan, M. A.; Stephen, A. G.
Bhaird, N. N. A.
 —; Tipton, K. F.
 Catechol-O-methyltransferase from human placenta: purification and properties. 20s
Bhuiyan, A. K. M. J.
 —; Pandey, S. V.
 One-step facile synthesis of radioactive acyl-CoA and acylcarnitines using rat liver outer mitochondrial membrane as the enzyme source. 174s
Bidwell, D. E. See Aliakbar, S.
Biessen, E. A. L.
 —; Horn, A. S.; Robillard, G. T.
 Approaches to the purification of the 5-hydroxytryptamine reuptake system from human blood platelets. 103
Biggart, J. D. See Campbell, J. A.
Billah, M. M.
 —; Anthes, J. C.; Mullmann, T. J.
 Receptor-coupled phospholipase D: regulation and functional significance. 324
Billingham, M. See Imray, C. H. E.
Bilton, R. F. See Cook, A.; Graham, D. L. V.; Rutherford, A. J.
Birch, N. J. See Edbury, S. M.; Freeman, M. S.; Kausar, S.
Bises, G. See Scarino, M. L.
Bishop, P. N.
 —; McLeod, D.; Ayad, S.
 Extraction of the intact form of type IX collagen from mammalian vitreous. 351s
Bjarnason, A. See Lam, Z.
Blackwell, J. See Jamieson, A. M.
Blair, G. E. See Asipu, A.; Sharma, E.; Yusof, R.
Blake, D. See Lees, T.
Blanchflower, W. J. See Walsh, D. M.
Blau, C.
 —; Candy, D. J.; Wegener, G.
 Regulation of fructose 2,6-bisphosphate in perfused flight muscle of the locust, *Locusta migratoria*: the effect of octopamine. 136s
Blaydes, J. See Rogers, A. T.
Blight, M. See Holland, I. B.
Bliss, T. See Foot, E. A.
Bliss, T. V. P. See Lynch, M. A.
Blom, H.
 —; Moertvedt, C.
 Antimicrobial substances produced by food associated microorganisms. 694
Blomstrand, E. See Newsholme, E. A.
Bloomfield, F. J. See McLoughlin, D. M.
Blomfield, V. A. See Harding, S. E.
 —; He, S.; Li, A. Z.; Arscott, P. B.
 Light scattering studies on DNA condensation. 96
Bloor, D. See Kennedy, K.
Blundell, T. L. See Orprayoon, P.
Bock, E.
 Cell-cell adhesion molecules. 1076
Bogoyevitch, M. A.
 —; Fuller, S. J.; Sugden, P. H.
 Effects of catecholamines on protein synthesis and cyclic AMP concentrations in the isolated working heart. 276s
Bokoch, G. M. See Saerndahl, E.
Bolanos, J. P. See Vicario, C.
Bolignano, B.
 —; Davies, H. C.; Poole, R. K.
 Using the bacterium, *Paracoccus denitrificans* and other 'runaway mitochondria' as classroom models for respiratory electron transport studies. 976
Bond, J. See Parry-Billings, M.
Bond, J. A. See Calder, P. C.
Bonnett, T. C. See McEwan, A. G.
Boog, C. J. P. See Van Eden, W.
Boon, J. J. See Lomax, J. A.
Booth, F. W.
 —; Kirby, C. R.
 Control of gene expression in adult skeletal muscle by changes in the inherent level of contractile activity. 374
Booth-Handford, R. P. See Brass, A.; Butterworth, H. C.; Murdoch, A. D.; Patel, B. N.; Thomas, J. T.
Botham, K. M.
 Activity and characteristics of an acid cholesteryl ester hydrolase in the rat lactating mammary gland. 335s

- Bottiglieri, T.** See Schofield, D.
Boulnois, G. See Pazzani, C.
Boulton, M. E. See Unger, W. G.
Bourke, A. C. M.
 —; Kelly, C. T.; Fogarty, W. M.
 A novel maltotrioglycosaccharide producing amylase. 16s
Bourne, R. M.
 —; Rich, P. R.
 The sodiummotive NADH-ubiquinone oxidoreductase of *Vibrio alginolyticus*. 251s
Bowler, J. See Wakeling, A. E.
Boyde, T. R. C. See Saeed, S. A.
Boyer, J. L. See Harden, T. K.
Bradwell, J. See Imray, C. H. E.
Braganza, J. M. See Schofield, D.
Bramham, C. R. See Lynch, M. A.
Brammer, M. See Richmond, S.
Brandt, U. See Rich, P. R.
Brass, A. See Baker, P. G.
 —; Kadler, K. E.; Thomas, J. T.; Grant, M. E.; Boot-Handford, R. P.
 The aromatic zipper: a model for the initial trimerization event in collagen folding. 365s
Bray, C. M. See Livesley, M. A.
Bray, R. C. See Hughes, R. K.
Brealey, C. J. See Walker, C. H.
Brenton, A. G. See Walton, T. J.
Breton, J. See Thomson, A. J.
Brett, C. T. See Baydoun, E. A. H.; Delarge, M. H. P.; Hobbs, M. C.
Brewton, R. G. See Mayne, R.
Bridges, J. M. See Afrasiabi, M.
Brierley, V. H.
 —; Ayad, S.; Grant, M. E.
 Types II, VI and IX collagens in normal and osteoarthrotic human articular cartilage. 379s
Brindle, K. M.
 Enzymology in vivo. 985
 —; Davies, S. E. C.; Williams, S. P.
 A combined NMR and molecular biological approach to studying enzymes in vivo. 997
Brindley, D. N. See Simpson, K. J.
Britton, G. See Alam, A.
Bronze, E. See Teixeira, N. A.
Brosnan, M. J.
 —; Halow, J. M.; Koretsky, A. P.
 Manipulating creatine kinase activity in transgenic mice to study control of energy metabolism. 1010
Brouns, F.
 Effect of diet manipulation on substrate availability and metabolism in trained cyclists. 362
Brouwer, A.
 Role of biotransformation in PCB-induced alterations in vitamin A and thyroid hormone metabolism in laboratory and wildlife species. 731
Brown, B. S. See Steven, F. S.
 Brighter bioenergetics! 400s
Brown, G. See Baxter, M. A.; Lord, J. M.
Brown, J. R.
 Regulatory implications: a committee member's perspective. 463
Brown, J. W. S. See Hu, Y.
Brown, K. D. See Smith, R. D.
Brown, P. R. See Aliakbar, S.
Brown, S. See Nebbali, M.; Rich, P. R.; Yiannakis, P. H.
Brown, W. See Johnsen, R. M.
Brownbridge, G. G. See Eccleston, J. F.
Browne, P. See Jumel, K.
Browne, R. M. See Smith, A. J.
Brunotte, F. See Rix, L. K.
Budd, T. C. See Druce, I. R.
Bulleid, N. J. See Steven, F. S.
Buluwela, L. See Omar, C.
Bunce, C. M. See Baxter, M. A.; Lord, J. M.
Burchard, W.
 Combined static and dynamic light scattering approaches to biopolymeric analysis. 478
Burdett, K. See Wood, A. J.
Burdge, G. C.
 —; Kelly, F. J.; Postle, A. D.
 The biosynthesis of phosphatidylcholine molecular species in fetal and neonatal guinea pig lung. 112s
 The biosynthesis of molecular species of phosphatidylcholine in neonatal guinea pig liver. 113s
Burgoyne, R. D.
 —; Handel, S. E.; Morgan, A.; Rennison, M. E.; Turner, M. D.; Wilde, C. J.
 Calcium, the cytoskeleton and calpactin (annexin II) in exocytotic secretion from adrenal chromaffin and mammary epithelial cells. 1085
Burke, J. F. See Hughes, R. K.
Burlingame, R. W. See Rubin, R. L.
Burne, P. M.
 —; Sellen, D. B.
 Laser light-scattering studies of polysaccharide gels. 495
Burns, S.
 —; Johnson, A.; Iles, R. A.
 Indirect measurement of betaine-homocysteine methyltransferase activity using proton NMR spectroscopy. 402s
Burridge, K. See Pavalko, F. M.
Busquets, M. See Quiroga, C.
Butler, M. E. See Walton, P. W.
Butt, J. N. See Thomson, A. J.
Butters, J. A. See Connerton, I. F.
Butterworth, H. C.
 —; Murdoch, A. D.; Boot-Handford, R. P.
 Use of the polymerase chain reaction to amplify and clone α -chains of bovine collagen IV. 366s
Buttery, P. J. See Baba, A. S. H.
Buxton, R. S. See Wheeler, G. N.
Byrne, D.
 —; McLoughlin, A. J.; Hussey, C.
 Plasmid maintenance alters substrate affinity. 32s
Cahill, A.
 —; White, I. N. H.
 Reductive activation of N-oxides to cause DNA strand breakage in cell lines in vitro. 127s
Calder, P. C.
 —; Bond, J. A.; Newsholme, E. A.
 Effect of inhibitors of eicosanoid synthesis upon lymphocyte proliferation. 88s
Callingham, B. A.
 —; Holt, A.; Elliott, J.
 Properties and functions of the semicarbazide-sensitive amine oxidases. 228
Cameron, L. See Hoffman, R.
Cammack, R. See Shergill, J. K.
Camp, R. D. R. See McFadden, J. P.
Campbell, D. B.
 —; Wilson, K.
 Chirality and its importance in drug development. 472
Campbell, I. See Richmond, S.
Campbell, I. D.
 NMR and biochemistry. 243
Campbell, J. A.
 —; Biggart, J. D.; Elliott, R. J.
 Detection of calcium binding proteins in human aortic tissue. 53s
 Isolation of calcium-binding proteins by immobilized metal affinity chromatography. 387s
Candy, D. J. See Blau, C.; Pancholi, S.
Candy, J. See Davidson, J.
Canela, E. I. See Sayos, J.
Canfield, A. E. See Murdoch, A. D.
Carden, M. J. See Nash, J. A. B.
Carey, B. See O'Leary, R.
Carlenor, E. See Jackson, J. B.
Carlucci, F. See Marinello, E.
Caropaton, T. See Alonso de la Torre, S. R.
Carr, E. P.
 —; Tipton, K. F.; Kelling, P. W. N.
 The effects of histamine H₂ receptor antagonists on the activity of horse liver alcohol dehydrogenase. 71s
Carr, R. J. G. See Jepras, R. I.; Rarity, J. G.
Carroll, M. See Chen, Y.
Carstairs, J. R. See Nimmo, A. J.
Cartwright, A. C.
 Regulatory implications: an authority's perspective. 465
Cartwright-Shamoon, J. M.
 —; Dodge, J. A.
 The effects of high fat diet on ionic transport in rat intestine. 241s
Casey, J.
 —; Shalloe, F.; Sheehan, D.
 Subunit structure of fungal glutathione-S-transferases. 17s
Cassatella, M. A.
 —; Bazzoni, F.; Amezaga, M. A.; Rossi, F.
 Studies on the gene expression of several NADPH oxidase components. 63
Castro, M.
 —; Lowenstein, P.; Glynn, B.; Hanahan, M.; Linton, E.; Lowry, P.
 Post-translational processing and regulated release of corticotropin-releasing hormone (CRH) in AtT20 cells expressing the human proCRH gene. 246s
Castro, S.
 —; Strange, P. G.
 Expression of the D₂ dopamine receptor in animal cells. 146s
Cawston, T. E. See Clark, I. M.; O'Hare, M. C.
Centelles, J. J. See Sayos, J.
Chadwick, R. J.
 —; Thompson, J. S.; Tomalin, G.
 Solid phase synthesis of monosaccharide-containing N-glycopeptides. 406s
Challiss, R. A. J. See Chilvers, E. R.; Nahorski, S. R.
 —; Safrany, S. T.; Potter, B. V. L.; Nahorski, S. R.
 Intracellular recognition sites for inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate. 888
 —; Willcocks, A. L.; Potter, B. V. L.; Nahorski, S. R.
 Comparison of inositol 1,4,5-trisphosphate and inositol 1,3,4,5-tetrakisphosphate binding sites in cerebellum. 151s
Chambers, T. J. See Page, A.
Chan, C. H. W. See Howl, J.
Chandra, R. See Beri, R.; Gurudutta, G. U.
Chapman, J. R.
 —; Gallagher, R. T.; Mann, M.
 Some biochemical applications of electrospray-magnetic sector mass spectrometry. 940
Chappell, J. B.
 —; Henderson, L. M.

- The activation of the electrogenic NADPH oxidase. 67
- Chauhan, U. P. S.** See Gurudutta, G. U.
- Chazot, P. L.**
—; Wilkins, M.; Strange, P. G.
Site-specific antibodies as probes of the structure and function of the brain D₂ dopamine receptor. 143s
- Cheetham, K.** See Toffa, S.
- Chen, H.**
—; Cosstick, R.; McLennan, A. G.
Properties of the diadenosine tetraphosphate nucleoside analog, bis-(N⁶-adenosyl)dodecane, and its possible use in the treatment of disorders of purine metabolism. 123s
- Chen, J.** See Pagani, R.
- Chen, Y.**
—; Peuchen, S.; Carroll, M.
Immunoblotting of cerebellar proteins in multiple sclerosis. 179s
- Cheresh, D. A.**
Integrins in thrombosis, wound healing and cancer. 835
- Chidwick, K.**
—; Dey, P. M.; Hart, R. J.; Mackenzie, A.; Pridham, J. B.
Cogelation of xanthan gum with modified guar galactomannan. 269s
- Chilvers, E. R.**
—; Challiss, R. A. J.; Nahorski, S. R.
Detection of sustained mass increases in inositol 1,3,4,5-tetrakisphosphate in agonist-stimulated airway smooth muscle. 76s
- Chipman, J. K.**
—; Livingstone, D. R.; Marsh, J. W.
Mechanisms of xenobiotic activation in marine invertebrates. 751
- Chipman, K.** See Coleman, R.
- Chittock, R. S.**
—; Wharton, C. W.; Jackson, J. B.; Berovic, N.; Benyon, D.
Light amplification by a coupled biological system: ATP, firefly luciferase and recycling of ATP. 160s
- Choi, G.**
—; Gao, B.; Gibbons, W. A.
Arachidonic acid as a feedback inhibitor of phospholipid methylation in rat polymorphonuclear leucocytes. 308s
- Choi, W. C.** See Rhee, S. G.
- Chopra, R.** See Koklitis, P. A.
- ; Koklitis, P. A.; Bergin, S.; Rowe, J.; Angal, S.
Purification of recombinant dog tissue inhibitor of metalloproteinases. 372s
- Chovnick, A.** See Hughes, R. K.
- Christiano, A. M.** See Uitto, J.
- Chung-A-On, K. O.** See Gliddon, A. E.
- Cinci, G.** See Pizzichini, M.
- Claes, P.**
—; Dunford, M.; Kenney, A.; Vardy, P.
An online dynamic light-scattering instrument for protein chromatography. 487
- Clamp, J. R.** See Corfield, A. P.
- Clark, I. M.**
—; Wright, J. K.; Cawston, T. E.
The measurement of human collagenase-TIMP complex by enzyme immunoassay. 287s
- Clarke, A. R.**
—; Colebrook, S.; Cortes, A.; Emery, D. C.; Halsall, D. J.; Hart, K. W.; Jackson, R. M.; Wilks, H. M.; Holbrook, J. J.
Towards the construction of a universal NAD(P)⁺-dependent dehydrogenase: comparative and evolutionary considerations. 576
- Clarke, D. J.** See Jepras, R. I.
- Clarke, N. J.** See O'Hare, M. C.
- Clarke, S. E.** See McCaffery, A. R.
- Clarkson, J.**
—; Finan, P. M.; Ricart, C. A.; White, I. R.; Millner, P. A.
Specific immunodetection of G-proteins in plant cell membranes. 239s
- Clegg, J. S.**
Metabolic organization and the ultrastructure of animal cells. 986
- Clegg, R. A.**
—; West, D. W.
Calcium-translocation into mammary Golgi vesicles: molecular identity of calcium-ATPases. 194s
- Clemens, M. J.** See Portwood, N. D.
- Clements, M. P.** See Lynch, M. A.
- Clynes, M.** See O'Leary, R.
- Coates, J. D.**
—; Coughlan, M. F.; Colleran, E.
Development of a pressure transducer assay for monitoring the specific activity of hydrogenophilic methanogens. 70s
- Cockcroft, S.**
—; Geny, B.; Thomas, G. M. H.
Regulation of cytosolic phosphoinositide-phospholipase C by G-protein, Gp. 299
- ; Nielson, C. P.; Stutchfield, J.
Is phospholipase A₂ activation regulated by G-proteins? 333
- Cockle, S. M.**
—; Aitken, A.; Howell, S.
Partial characterization of a TRH-immunoreactive peptide from rabbit prostate. 327s
- Coester, L.**
Structure and properties of dermatan sulfate proteoglycans. 866
- Cole, D. J.** See Ashton, I. P.
- Colebrook, S.** See Clarke, A. R.
- Coleman, R.**
—; Wilton, J.; Williams, D.; Strain, A.; Chipman, K.
Purification and use of hepatocyte couplets. 109s
- Collado, P. S.** See Monsalve, E.
- Collard, K. J.**
The effect of perfusion rate on the apparent release of tritiated L-glutamate from superfused synaptosomes. 147s
- Colleran, E.** See Coates, J. D.; Donlon, B.; Wilkinson, Y.
- Collins, P.** See Owens, D.
- Collins, P. B.** See Moore, U. M.
- Colman, A.**
An overview of conventional and novel routes of protein secretion. 249
- Colthurst, D. R.**
—; Belfield, G. P.; Tuite, M. F.
Analysis of a novel elongation factor: EF-3. 279s
- Colyer, J.** See Mata, A. M.
- Comisarow, M. B.** See Lam, Z.
- Commandeur, J. M.** See Lomax, J. A.
- Connerton, I. F.**
—; Deane, S. M.; Butters, J. A.; Loefler, R. S. T.; Hollomon, D. W.
RIP (repeat induced point mutation) as a tool in the analysis of P-450 and sterol biosynthesis in *Neurospora crassa*. 799
- Connock, M. J.** See Wood, A. J.
- Conrad, G. W.** See Funderburgh, J. L.
- Conroy, L. A.**
—; Jenkinson, E. J.; Owen, J. J. T.; Michell, R. H.
The role of inositol lipid hydrolysis in the selection of immature thymocytes. 90s
- Conroy, W. G.** See Lindstrom, J.
- Cook, A.**
—; Stovicek, R.; D'Odorico, A.; Tkac, A.; Bilton, R. F.
Menquinone mediated free radical generation: a possible mutagenic mechanism. 426s
- Cook, S. J.** See Wakelam, M. J. O.
- ; Wakelam, M. J. O.
Epidermal growth factor stimulates phospholipase D activity in the absence of inositol lipid hydrolysis in Swiss 3T3 cells. 108s
- Cooke, A.** See Varey, A. M.
- Cooke, C. J.**
—; Smith, C. J.; Newton, R. P.; Walton, T. J.
Effects of phytoalexin elicitor on levels of inositol phosphates in lucerne cells in suspension culture. 94s
- Binding saturation analysis of inositol-1,4,5-trisphosphate in suspension cultures of lucerne cells. 359s
- Cooke, D.** See Gidley, M. J.
- Cooke, F.**
—; Poyner, D.; Hawkins, P.; Erlebach, C. B.; Hanley, M.
Inositol hexakisphosphate-membranes interactions: the role of metal ions. 152s
- Cookman, G.** See Elmore, M.
- Cookson, E. J.** See Ramzan, M. A.
- Cooper, C. E.** See Sharpe, M. A.
- ; Moody, A. J.; Rich, P. R.; Wrigglesworth, J. M.; Ioannidis, N.
The cytochrome oxidase g' = 12 EPR signal. 259s
- Cooper, M. B.**
—; Tan, K. C. B.; Betteridge, D. J.
Collagen stimulation of intracellular calcium mobilization in washed platelets from patients with familial hypercholesterolemia. 173s
- Coppack, S. W.** See Potts, J. L.
- Corfield, A. P.**
—; Duggleby, S.; Wagner, S. A.; Clamp, J. R.
Human colon membrane mucins have a glycosylphosphatidyl inositol membrane anchor. 220s
- ; Myerscough, N.; Berry, M.; Clamp, J. R.; Easty, D. L.
Mucins synthesized in organ culture of human conjunctival tissue. 352s
- Coroneos, E.**
—; Sim, E.
N-acetyltransferase in human urothelium and bladder cell lines. 129s
- Cortes, A.** See Clarke, A. R.; Langa, F.; Quiroga, C.
- Cosstick, R.** See Chen, H.
- Costigan, D. C.** See Ryan, J.
- Cottrell, J. S.** See Mock, K. K.
- Coughlan, M. F.** See Coates, J. D.; Wilkinson, Y.
- Coughlan, M. P.** See Filho, E. X. F.
- Coulet, P. R.**
—; Bardeletti, G.
Biosensor-based instrumentation. 1
- Coulton, G.**
—; Skynner, M.; Pagel, C.; Morgan, J.; Partridge, T.
In situ hybridization of a Y chromosome-specific probe in male myoblasts after implantation into female skeletal muscle. 195s
- Couraud, P. O.**
—; Strosberg, A. D.
Anti-idiotypic antibodies against hormone and neurotransmitter receptors. 147

- Courtney, M. J.**
—; Nicholls, D. G.
Metabotropic receptor-mediated regulation of cytoplasmic free calcium in cultured cerebellar granule cells. 154s
- Craske, J.** See Jamieson, G. A.
- Crawford, N.** See Eggleton, P.
- ; Eggleton, P.
Dynamic changes in neutrophil cytoskeleton during priming and subsequent surface stimulated functions. 1048
- Cresswell, C. J.** See Thomas, J. T.
- Cribb, A.** See Williams, D. L.
- Critchley, A. J.**
—; Lowe, A. G.
Single half-turnovers of the glucose transporter of the human erythrocyte. 417s
- Critchley, D. R.**
—; Gilmore, A.; Hemmings, L.; Jackson, P.; Kuhlman, P.; McGregor, A.; Ohanian, V.; Patel, B.; Waites, G.; Wood, C.
Cytoskeletal proteins in adherens-type cell-matrix junctions. 1028
- Crofts, A. R.** See Fernandez-Valesco, J.
- Cromartie, T.** See Pugh, C. E.
- Crook, M.**
Prothrombinase expression of taxol treated platelets. 47s
- Cross, A. R.** See Jones, O. T. G.
- Crossey, P. J.** See Ennis, M. P.
- Cummins, B.** See Cummins, P.
—; Russell, G. J.; Cummins, P.
A monoclonal antibody that distinguishes phospho- and dephosphorylated forms of cardiac troponin-I. 161s
- Cummins, P.** See Cummins, B.
—; Logan, A.; Cummins, B.
Basic fibroblast growth factor in the developing bovine heart. 79s
- Cunliffe, C. J.** See Franklin, T. J.
- Currie, S.** See Wakelam, M. J. O.
- Curtain, D.** See Heffernan, M.
- Curtis, C. A. M.** See Hulme, E. C.
- Da Costa, C.** See Foot, E. A.
- Dalton, J. P.** See Heffernan, M.; O'Donovan, S.
- Damaschun, G.** See Gast, K.
- Damaschun, H.** See Gast, K.
- Danielian, P.** See Parker, M. G.
- Danielsson, B.**
Calorimetric biosensors. 26
- Dao, K. K.** See Vintermyr, O. K.
- Darlison, M. G.** See Glencorse, T. A.; Lasham, A.
- Das, M.** See Lindstrom, J.
- Davey, M.** See Mock, K. K.
- David, G.**
Biology and pathology of the pericellular heparan sulfate proteoglycans. 816
- Davidson, J.**
—; Stefani, L.; Candy, J.; Hughes, D.; Neill, D.; Edwardson, J.
Expression of chromosome 21 specific DNA sequences in brain tissue and in neuronal cell lines. 200s
- Davie, R. J.** See Edbury, S. M.; Freeman, M. S.
- Davies, A.** See Winslet, M. C.
- Davies, H. C.** See Bolgiano, B.
- Davies, J. I.** See Gliddon, A. E.; Wang, K. W.
- Davies, M. C.** See Muir, I. S.
- Davies, S. E. C.** See Brindle, K. M.
- Davis, A.** See Imray, C. H. E.
- Davis, A. E.**
—; Imray, C. H. E.; Minoura, T.; Winslet, M.; Baker, P. R.; Neoptolemos, J. P.
Gas liquid chromatography (GLC) analysis of hamster conjugated biliary bile acids. 171s
- Davis, S. S.** See Muir, I. S.
- Deane, S. M.** See Connerton, I. F.
- De Barry, J.** See Bacon, E.
- De Kock, S. S.** See Van der Merwe, K. J.
- Delarge, M. H. P.** See Baydoun, E. A. H.; Hobbs, M. C.
—; Hobbs, M. C.; Brett, C. T.
A rapid method for Golgi membrane isolation from etiolated pea epicotyls. 244s
- De Luca, G.** See Balduini, C.
- Demers, A.** See Jamieson, A. M.
- Dempke, W. C. M.**
—; Hosking, L. K.; Shellard, S. A.; Hill, B. T.
Differential cisplatin responses in human carcinoma cell lines pre-exposed to fractionated X-irradiation. 121s
- Dempsey, M.**
—; Pratt, I.; O'Connor, C.
Action of platelet-derived growth factor on human lung fibroblasts derived from normal and diseased lungs. 28s
- Denyer, K.** See Smith, A. M.
- Deranleau, D. A.** See Baggolini, M.
- Desai, M.** See Vadgama, P.
- Devery, R.** See Doyle, V.
- Devonshire, A. L.**
Role of esterases in the resistance of insects to insecticides. 755
- Dewald, B.** See Baggolini, M.
- Dexter, T. M.**
Growth and differentiation in the hemopoietic system. 303
- Dey, P. M.** See Chidwick, K.
- Dickson, A. J.** See Whatmore, A. J.
- Di Lullo, G.** See Scarino, M. L.
- Dimitriadis, G. D.** See Parry-Billings, M.
- Dispensa, E.** See Marinello, E.
- Dixon, R. M.** See Radda, G. K.
- Dixon, T. W.** See Engel, J.
- Djaballah, H.**
—; Rivett, A. J.
The multicatalytic proteinase complex: interaction between catalytic sites? 291s
—; Staniforth, A. D.; Ward, S.; Kuhn, N. J.
High manganese(2+) sensitivity of vesicular galactosyltransferase in thymus and mammary gland. 235s
- Docherty, K.** See Knight, S. W.; Taylor, N. A.
- Docherty, M.**
Novel neuronal neurotransmitter-specific cell-surface molecules. 87
- Dodd, G.**
—; Bartlett, P.; Gardner, J.
Complex sensor systems: odor detection by the sense of smell and by electronic noses. 36
- Dodemont, H.** See Weber, K.
- Dodge, J. A.** See Cartwright-Shamoon, J. M.
- D'Odorico, A.** See Cook, A.
- Doeskeland, S. O.** See Haavik, J.; Vintermyr, O. K.
- Doherty, D.**
—; Wall, M.; Houghton, J. A.
Effect of Caprogen on membrane lipid peroxidation and motility of bovine sperm. 158s
- Doherty, D. J.**
—; Houghton, J. A.
Assessment of phosphatidylcholine (PC12) liposomes. 434s
- Donlon, B.**
—; O'Gara, P.; Colleran, E.
Adhesion of 1-carbon utilizing bacteria to polymeric surfaces. 69s
- Doonan, S.** See Mangan, D. J.; O'Connell, J.
- Dorado, G.** See Rodriguez-Ariza, A.
- Dorfmueller, T.** See Patkowski, A.
- Dormer, R. L.** See Pereira, M. M. C.
- Dostert, P.**
—; Strolin Benedetti, M.
Structure-modulated recognition of substrates and inhibitors by monoa-mine oxidases A and B. 207
- Dougan, L.** See Mitchell, R.
- Dourish, C. T.** See Iversen, L. L.
- Downes, C. P.** See Harden, T. K.
- Downing, S. J.** See McIlwraith, A.
- Downs, M. E. A.**
Prospects for nucleic acid biosensors. 39
- Doyle, E. M.**
—; Kelly, C. T.; Fogarty, W. M.
Production of the amyolytic enzymes of *Penicillium expansum*. 270s
- Doyle, V.**
—; Devery, R.
A bioassay technique for plasma proinsulin measurement. 55s
- Doyle, W. A.** See Hughes, R. K.
- Drabble, K.** See White, A. J.
- Draye, J. P.** See Pouchaut, S.
- Druce, I. R.**
—; Budd, T. C.; Richardson, P. J.
The use of anti-idiotypic antibodies as a strategy for studying glutamate receptors. 143
- Duance, V. C.** See Karwatowski, W. S. S.; Wotton, S. F.
—; Wotton, S. F.
Changes in the distribution of mammalian cartilage collagens with age. 376s
- Dublet, B.** See Van der Rest, M.
- Duffy, M. J.** See Reilly, D.
- Duggleby, S.** See Corfield, A. P.
- Duncan, G.** See Marcantonio, J. M.
- Dunford, M.** See Claes, P.
- Dunlop, J.** See Grieve, A.
—; Grieve, A.; Schousboe, A.; Griffiths, R.
Excitatory sulfur amino acids evoke a calcium-independent release of [³H]D-Asp and [³H]GABA from primary neuronal cultures by a mechanism which involves reversal of the high affinity transporters for L-Glu and GABA, respectively. 3s
- Dunn, J. F.** See Kemp, G. J.
—; Walley, G. J.
Renal pH regulation in hypertension. 421s
- Dunn, R.** See Schachter, H.
- Durrington, P. N.** See Mackness, M. I.
- Dutta-Roy, A. K.**
—; Rac, M. G.; Milton, A. S.; Rotonodo, D.
Stimulation of prostaglandin E₂ binding to a murine macrophage cell line (P388D₁) by insulin. 358s
- Dutton, G. G. S.** See Lam, Z.
- Dyer, J. J.**
—; Belton, N. R.; McIntosh, N.
Effects of age, vitamin D₃ metabolites and calcium ionophore A23187 on cytosolic free calcium in rat hippocampus. 82s
- Earnshaw, J. C.**
Quasi-elastic light scattering studies of membrane structure and dynamics. 499

- East, J. M.** See Mata, A. M.
Easton, S. J. See Gilmore, W. S.
Easty, D. L. See Corfield, A. P.; Karwowski, W. S. S.
Ebskamp, M. See Smeeckens, S.
Eccleston, J. F.
 —; Moore, K. J. M.; Brownbridge, G. G.; Webb, M. R.; Lowe, P. N.
 Fluorescence approaches to the study of the p21^{ras} GTPase mechanism. 432
Edbury, S. M.
 —; Hemmings, F. J.; Davie, R. J.; Birch, N. J.
 Comparison of inhibitory effects of lithium and magnesium on longitudinal smooth muscle contraction. 411s
Edmonds, C. G.
 —; Loo, J. A.; Loo, R. R. O.; Udseth, H. R.; Barinaga, C. J.; Smith, R. D.
 Application of electrospray ionization mass spectrometry and tandem mass spectrometry in combination with capillary electrophoresis for biochemical investigations. 943
Edwards, P. See Preedy, V. R.
Edwards, R. H. T. See Foxley, A.; McArdle, A.; MacLennan, P. A.
Edwardson, J. See Davidson, J.
Egan, D. A.
 —; James, P.; O'Kennedy, R.
 The production and characterization of a coumarin-bovine serum albumin (BSA) conjugate and its use for antibody production. 57s
Eggleton, P. See Crawford, N.
 —; Penhallow, J.; Crawford, N.
 Differences in basal and formyl-Met-Leu-Phe-stimulated F-actin content of human blood neutrophil sub-populations separated by continuous flow electrophoresis. 1129
Eichenberger, D. See Van der Rest, M.
Eimer, W. See Patkowski, A.
Ekblom, B. See Newsholme, E. A.
Eklund, E. A.
 —; Gabig, T. G.
 Deactivation of the subcellular NADPH oxidase and its relationship to termination of the respiratory burst. 51
Elder, G. E. See Afrasiabi, M.
Elenius, K. See Jalkanen, M.
Elliott, J. See Callingham, B. A.
Elliott, R. J. See Anderson, S. M. L.; Campbell, J. A.; Sloan, R.
Ellis, L.
 —; Tavare, J. M.; Levine, B. A.
 Insulin receptor tyrosine kinase structure and function. 426
Elmore, M.
 —; Smyth, M.; Cookman, G.; Regan, C.; O'Connor, B.; O'Cuinn, G.
 Thyroliberin and luliberin degradation by enzymes in cultured cells of neural origin. 36s
Emery, D. C. See Clarke, A. R.
Engel, J.
 —; Hunter, I.; Schulthess, T.; Beck, K.; Dixon, T. W.; Parry, D. A. D.
 Assembly of laminin isoforms by triple- and double-stranded coiled-coil structures. 839
Enghild, J. J. See Nagase, H.
Ennis, K. T. See McElreavey, K. D.
 —; McLean, W. H. I.; Hughes, A. E.; Nevin, N. C.
 Purification of monocyte esterase using narrow range (pH 5.6–6.6) immobilized pH gradient electrophoresis. 58s
Ennis, M. P.
 —; Crossey, P. J.; Irvine, G. B.; Williams, C. H.
 Aminopeptidase activities in *Helix aspersa*. 30s
 —; McGrath-Linden, S. J.; McKenna, N. J.; McCann, J. J.; Irvine, G. B.; Williams, C. H.
 Membrane-bound peptidases of *Helix aspersa*. 295s
Erlanger, B. F.
 Antibodies to receptors by an auto-anti-idiotypic strategy. 138
Erlebach, C. B. See Cooke, F.
Ervens, J.
 —; Schultz, G.; Seifert, R.
 Differential regulation of chemoattractant-induced superoxide formation in human neutrophils by cell-permeant analogs of cyclic AMP and cyclic GMP. 59
Esnaut, H. See Graham, D.
Evans, A. M. See Walton, T. J.
Evans, A. T. See Evans, F. J.
 —; Gorge, P. C.; Sharma, P.; Ryves, W. J.; Evans, F. J.
 Investigation of the tissue distribution of the calcium independent kinase, Rx kinase; which is distinct from known isozymes of protein kinase C. 157s
Evans, C. See Sumegi, B.
Evans, F. J. See Evans, A. T.
 —; Parker, P. J.; Olivier, A. R.; Thomas, S.; Ryves, W. J.; Evans, A. T.; Gorge, P.; Sharma, P.
 Phorbol ester activation of the isotypes of protein kinase C from bovine and rat brain. 397
Evans, P. J. See Simpson, R. J.
Everitt, J.
 —; Ludlow, I. K.
 Particle sizing using methods of discrete Legendre analysis. 504
Fanning, S. See Leahy, M.
Farbood, M. I.
 Microorganisms as a novel source of flavor compounds. 690
Faris, F.
 —; Wickramasinghe, Y.; Thorniley, M.; Houston, R.; Rolfe, P.
 Influence of scattering on physiological measurement using laser light in vivo. 514
Farmer, M. J. See Baydoun, E. A. H.
Faulkner, A. See McCarthy, J. P.
 Sensitivity of serum insulin concentrations to glucagon-like peptide 1 (7–36)amide in sheep. 311s
Fauske, B. See Haavik, J.
Fawell, S. E. See Parker, M. G.
Fell, A. F.
 —; Ley, G. W.
 Chirality and its importance in drug development: an analytical chemist's perspective. 454
Ferguson, S. J. See Berks, B. C.; McEwan, A. G.
 The protonmotive force and the problem of the phosphorus/oxygen ratio; some teaching considerations. 982
Fernandez-Alvarez, E. See Balsa, D.
Fernandez-Valesco, J.
 —; Crofts, A. R.
 Complexes or super complexes: inhibitor titrations show that electron transfer in chromatophores from *Rhodobacter sphaeroides* involves a dimeric UQH₂:cytochrome c₂ oxidoreductase, and is delocalized. 588
Ferrer, N.
 —; Portugal, J.; Franco, R.
 Protein factors involved in the expression of the α -fetoprotein gene. 324s
Ferszt, A. See Slingsby, C.
Fhaolain, I. N. See Bacon, C. L.
Fichtinger-Schepman, A. M. J. See Shellard, S. A.
Field, M. L.
 —; Unitt, J. F.; Radda, G. K.; Henderson, C.; Seymour, A. M. L.
 Age-dependent changes in cardiac muscle metabolism upon replacement of creatine by β -guanidino propionic acid. 208s
Filer, R. See Imray, C. H. E.
Filho, E. X. F.
 —; Tuohy, M. G.; Puls, J.; Coughlan, M. P.
 The xylan-degrading enzyme systems of *Penicillium capsulatum* and *Talaromyces emersonii*. 25s
Filva, G. See Teixeira, N. A.
Finan, P. M. See Clarkson, J.
Finnen, M. J.
 —; Lovell, C. R.
 Purification and characterization of phospholipase A₂ from human epidermis. 91s
Finney, M.
 —; Michell, R. H.; Gillis, S.; Gordon, J.
 Regulation of the interleukin 4 signal in human B-lymphocytes. 287
Fischer-Colbrie, R. See Winkler, H.
Fisher, M. J. See Green, A. K.; Richardson, S. C. B.
Fisher, R. M. See Potts, J. L.
Fitzgerald, M. X. See Moloney, D. B.
Flaskos, J. See Hargreaves, A. J.
 —; McLean, W. G.; Hargreaves, A. J.
 The effects of p-bromophenacyl bromide on brain microtubule assembly in vitro. 170s
Flatmark, T. See Haavik, J.
Flint, D. J. See Beattie, J.; McCarthy, J. P.
Fogarty, W. M. See Bourke, A. C. M.; Doyle, E. M.
Font, B. See Van der Rest, M.
Foot, E. A.
 —; Bliss, T.; Da Costa, C.; Leighton, B.
 Dose related stimulation of glucose metabolism by peroxovanadate in rat skeletal muscle preparations in vitro. 133s
Forrest, I. A.
 —; Adams, S. A.; Nimmo, I. A.; Saunders, D. H.; Stewart, A. D.
 The effect of an acute load of glucose on the rate of clearance of lactate from the blood of adult males after severe exercise. 132s
Forsberg, A. See Rosqvist, R.
Fourie, L. See Van der Merwe, K. J.
Foxley, A. See McArdle, A.
 —; Edwards, R. H. T.; Jackson, M. J.
 Enhanced lipid peroxidation in Duchenne dystrophy muscle may be secondary to muscle damage. 180s
Francis, M. J. O. See Pocock, A. E.
Franco, R. See Ferrer, N.; Sayos, J.
Franklin, M. See Kaszuba, M.
Franklin, T. J.
 —; Hales, N. J.; Johnstone, D.; Morris, W. B.; Cunliffe, C. J.; Millest, A. J.; Hill, G. B.
 Approaches to the design of anti-fibrotic drugs. 812
Frayn, K. N. See Potts, J. L.
Freeman, M. S.
 —; Davie, R. J.; Birch, N. J.
 The effects of essential fatty acid supplementation on lithium absorption kinetics in guinea pig jejunum. 422s

- Freemont, A. J.** See Thomas, J. T.
Freissmuth, M.
 Mutations in G α that alter the kinetics of guanine nucleotide binding and hydrolysis. 437
- French, J.**
 —; Heffron, J. J. A.
 Kinetic analysis of halothane induced calcium release from isolated heavy sarcoplasmic reticulum. 355s
- French, P. J.** See Lord, J. M.
Frid, M. G. See Kotelyanskii, V. E.
Fuchs, A.
 Current and potential food and non-food applications of fructans. 555
- Fuchs, E.**
 Keratin genes, epidermal differentiation and animal models for the study of human skin diseases. 1112
- Fujime, S.**
 Hydrodynamic behavior of myosin filaments studied by laser light scattering. 490
- Fujimoto, B. S.** See Schurr, J. M.
Fuller, B. See Stansby, G.; Toffa, S.
Fuller, S. J. See Bogoyevitch, M. A.
 —; Mynett, J. R.; Sugden, P. H.
 Stimulation of cardiac protein synthesis by insulin-like growth factors. 277s
- Funderburgh, J. L.**
 —; Funderburgh, M. L.; Mann, M. M.; Conrad, G. W.
 Physical and biological properties of keratan sulfate proteoglycan. 871
- Funderburgh, M. L.** See Funderburgh, J. L.
Fung, M. See Mills, G. B.
- Gabig, T. G.** See Eklund, E. A.
Gaillard-Mogulewsky, M. See Teutsch, G.
Gaisford, W. C.
 —; Richardson, N. J.; Haggett, B. G. D.; Rawson, D. M.
 Microbial biosensors for environmental monitoring. 15
- Gallagher, R. T.** See Chapman, J. R.
Game, S.
 —; Stone, A.; Scully, C.; Prime, S.
 Changes in EGF and TGF- β receptor expression reflects differentiation of rat malignant oral keratinocytes. 189s
- Gamini, A.** See Paoletti, S.
Gammon, C. M. See Morell, P.
Gao, B. See Choi, G.
Gardner, J. See Dodd, G.
Garlick, P. B. See Townsend, R. M.
Garlick, P. J. See Preedy, V. R.
Garner, A. See Mynott, C. L.
Garnier, N. See Ostrowsky, N.
Garrett, S. D. See McKee, R. A.
Gaskin, D. J. H.
 —; Wilderspin, A. F.
 Expression of HIV-1 proteinase in *E. coli*. 298s
- Gast, K.**
 —; Damaschun, G.; Damaschun, H.; Misselwitz, R.; Zirwer, D.
 Compactness of protein molecules in native and denatured states as revealed by laser light scattering and x-ray scattering. 488
- Gatti, A.**
 —; Watsuji, T.; Hanley, M.
 Apparent calcium-independent phospholipase C binding to protein kinase C. 150s
- Gelpi, J. L.** See Langa, F.
Geny, B. See Cockcroft, S.
George, S. J. See Thomson, A. J.
Gerlach, G. F. See Goldspink, G.
- Ghosh, D.** See Walton, T. J.
Giachetti, A. See Maggi, C. A.
Giafri, S.
 —; Martin, F.
 Construction and characterization of 3'-deletion mutants of the rat prolactin gene promoter. 42s
- Gibbons, G. F.** See Potts, J. L.
Gibbons, W. A. See Choi, G.
Gidley, M. J.
 —; Cooke, D.
 Aspects of molecular organization and ultrastructure in starch granules. 551
- Gill, R.** See Lawler, S. E.
Gillian, C. M.
 —; Heffron, J. J. A.; Lehane, M.; Marks, A.; McCarthy, T. V.
 Analysis of expression of the human ryanodine receptor gene in malignant hyperthermia skeletal muscle tissue. 46s
- Gillis, S.** See Finney, M.
Gilmore, A. See Critchley, D. R.
Gilmore, W. S.
 —; Hannigan, B. M.; Easton, S. J.; McGuckin, C. P.; Nelson, A. A.
 Recombinant human granulocyte colony stimulating factor (rhG-CSF) and superoxide production in a hematopoietic cell line. 237s
- Girard, C.** See Bacon, E.
Girstel, B. See Hartley, A. D.
Giuliani, S. See Maggi, C. A.
Gladwell, R. T. See Haggas, R. L.
Glazebrook, J. See Reuber, T. L.
Glazier, A. P. See Hargreaves, A. J.
Glencorse, T. A.
 —; Bateson, A. N.; Darlison, M. G.
 The chicken GABA $_A$ receptor: heterogeneity of gamma subunits. 4s
- Gliddon, A. E.**
 —; Chung-A-On, K. O.; Griffiths, K. D.; Payne, J. W.; Davies, J. I.
 Observations on platelet prostaglandin metabolism in schizophrenia: the response to ADP. 155s
- Glucksmann, M. A.** See Reuber, T. L.
Glukhova, M. A. See Kotelyanskii, V. E.
- Glynn, B.** See Castro, M.
Goad, J. See Alam, A.
Godson, C. A. See Insel, P. A.
Goh, D. C. L. See Manoh, R. M.
Gokuldas, M. See Pancholi, S.
Goldschmidt, D. See Van der Rest, M.
Goldsmith, J. P. See Unger, W. G.
Goldspink, G.
 —; Scutt, A.; Martindale, J.; Jaenicke, T.; Turay, L.; Gerlach, G. F.
 Stretch and force generation induce rapid hypertrophy and myosin isoform gene switching in adult skeletal muscle. 368
- Gombos, G.** See Bacon, E.
Gonzalez, J. See Monsalve, E.
Gooch, J. See Weeds, A. G.
Goodacre, J. A. See Lynn, S.
Goodearl, A. J. See Levine, B. A.
Goodenough, P. W.
 —; Jenkins, J. A.
 Protein engineering to change thermal stability for food enzymes. 655
- Gooding, C. M.** See McKee, R. A.
Goodyer, I. D.
 —; Towner, P.; Hayes, D. J.
 The use of nested PCR and Southern blotting to confirm the presence of actin in *Plasmodium yoelli*. 419s
- Goosey, M. W.**
 —; Moore, D. J.
 Sterol biochemistry in filamentous fungi: a coming of age. 769
- Gordge, P.** See Evans, F. J.
Gordge, P. C. See Evans, A. T.
Gordon, J. See Finney, M.
Gordon-Weeks, P. R.
 Microtubule organization in growth cones. 1080
- Gotto, G.** See Youdin, M. B. H.
Gower, D. B. See Soory, M.
Gower, J. See Toffa, S.
Grace, R. See Wood, A. J.
Gracia, V. See Langa, F.
Grafton, G. See Baxter, M. A.; Lord, J. M.
- Graham, D.**
 —; Esnaud, H.; Langer, S. Z.
 Characterization and purification of the neuronal sodium-ion-coupled 5-hydroxytryptamine transporter. 99
- Graham, D. L. V.**
 —; Lowe, G. M.; Phipps, D. A.; Bilston, R. F.
 Two novel methods used in the biodegradation of bile acids and plant sterols. 52s
- Grail, B. M.** See Wang, K. W.
Grandison, A. S. See Sirman, T.
Graneri, B. D. L. A. See Attwood, P. V.
Grant, C. M. See Akhmaloka
Grant, D.
 —; Long, W. F.; Williamson, F. B.
 NMR spectroscopy of calcium-heparin suggests delocalized binding of the cation. 390s
 IR spectroscopic analysis of heparin-polypeptide interaction. 395s
 —; Moffat, C. F.; Long, W. F.; Williamson, F. B.
 Calcium-heparin interaction investigated polarimetrically. 391s
 A relationship between cation-induced changes in heparin optical rotation and heparin-cation association constants. 392s
 Optical rotation changes in chemically modified heparins as a guide to anionic groups involved in calcium binding. 393s
 Carboxylate symmetric stretching frequencies and optical rotation shifts of heparin-cation complexes. 394s
- Grant, M. E.** See Brass, A.; Brierley, V. H.; Kieley, C. M.; Murdoch, A. D.; Thomas, J. T.
 —; Humphries, M. J.
 The extracellular matrix in health and disease: preface. 803
- Gray, W. R.** See Ryan, J. P.
Green, A.
 —; Milligan, G.; Belt, S. E.
 Effects of prolonged treatment of adipocytes with PGE $_1$, N 6 -phenylisopropyl adenosine and nicotinic acid on G-proteins and antilipolytic sensitivity. 212s
- Green, A. K.** See Richardson, S. C. B.
 —; Fisher, M. J.
 The modulation of phenylalanine hydroxylase activity by okadaic acid. 228s
- Green, B. N.**
 —; Oliver, R. W. A.
 The study of intact proteins and glycoproteins by electrospray MS. 929
- Green, C.** See Toffa, S.
Green, S.
 Nuclear hormone receptors and rational drug discovery. 894
- Greene, W.** See Mills, G. B.
Greenhaff, P. L. See Hultman, E.
Gregory, B. See O'Leary, R.

- Gregory, R. P. F.**
The place of bioenergetics in the modular biochemistry course in the School of Biological Sciences at Manchester. 399s
- Grey, R. H.** See Young, R. D.
- Grey, S. R.** See Batstone, F. R.
- Grieve, A.** See Dunlop, J.
- ; Dunlop, J.; Schousboe, A.; Grif=fiths, R.
Kinetic characterization of excitatory sulfur amino acid transport in synaptosomes and in primary cultures of different brain cells. 5s
- Griffin, M. C. A.** See Griffin, W. G.; Price, J. C.
- Griffin, M. M.** See Steven, F. S.
- Griffin, W. G.** See Price, J. C.
- ; Griffin, M. C. A.
A study of the diffusion of probe molecules in poly(N-isopropylacrylamide) gels using forced Rayleigh scattering. 483
- Griffiths, K. D.** See Gliddon, A. E.
- Griffiths, R.** See Dunlop, J.; Grieve, A.
- Grindstaff, D. J.** See Allen, M. H.
- Grosmaire, L. S.** See Ledbetter, J. A.
- Guerranti, R.** See Tabucchi, A.
- Guggenheim, J.** See Hodson, S.
- Gulab, P.** See Lynn, S.
- Guldur, T.**
—; Mayes, P. A.
Comparative hepatic metabolism of chylomicron remnants prepared in vivo or in vitro. 326s
- Gurudutta, G. U.**
—; Chauhan, U. P. S.; Jain, V. K.; Chandra, R.
Monitoring of the in situ thymine photo-adduct using UV irradiated DNA antibody F(ab)₂ fragment. 442s
- Guthrie, D. J. S.** See Abu Shanab, A. A.; Aldalou, A. R.
- Gyi, J. I.**
—; Barber, J.
Nuclear magnetic resonance studies on the mode of action of erythromycin. A. 313s
- Haavik, J.**
—; Fauske, B.; Flatmark, T.; Doeskeland, S. O.
High molecular mass complexes of the regulatory subunits of cyclic AMP-dependent protein kinase. 1163
- Hadding, U.** See Von Eichel-Streiber, C.
- Haggas, R. L.**
—; Rees, L.; Thompson, H. M.; Walker, C. H.; Gladwell, R. T.; Mackness, M. I.
Sexual dimorphism in trans-cypermethrin hydrolysis in the domestic chicken. 303s
- Haggett, B. G. D.** See Gaisford, W. C.
- Hague, A.** See Van der Stappen, J. W. J.
- Hales, N. J.** See Franklin, T. J.
- Hall, A.** See Johnston, C.
- Hall, A. C.** See Maciewicz, R. A.
- Hall, C.** See Winslet, M. C.
- Hall, G. M.** See Allsop, P.
- Hall, J. C.** See Zwiebel, L. J.
- Halliwell, B.** See Simpson, R. J.
- Halow, J. M.** See Brosnan, M. J.
- Halsall, D. J.** See Clarke, A. R.
- Hamill, J. D.** See Rhodes, M. J. C.
- Hamilton, G.** See Stansby, G.
- Hammer, J. L.** See Johnson, P.
- Hancock, J. T.** See Jones, O. T. G.
- Handel, S. E.** See Burgoyne, R. D.
- Handel, S. H.** See Sheterline, P.
- Hankey, D. P.**
—; McLean, W. H. I.; Hughes, A. E.
2D-PAGE reveals the absence of collagenase production in normal human osteoblasts in culture. 59s
- Hanley, M.** See Cooke, F.; Gatti, A.
- Hanlon, S. P.** See McEwan, A. G.
- Hann, A. C.** See Jones, A. L.
- Hannah, M.** See Castro, M.
- Hannah, S.**
—; Ryle, A. P.
Proteolysis of lung elastin by human neutrophil elastase. 294s
- Hannavy, K.**
—; Higgins, C. F.
TonB; a model for signal transduction between membranes. 530
- Hannigan, B. M.** See Gilmore, W. S.
- Hanson, P. J.** See McKenna, P.
- Harden, T. K.**
—; Morris, A. J.; Waldo, G. L.; Downes, C. P.; Boyer, J. L.
Avian G-protein-regulated phospholipase C. 342
- Hardin, P. E.** See Zwiebel, L. J.
- Harding, S. E.** See Horton, J. C.
Total intensity and quasi-elastic light-scattering applications in microbiology. 499
- ; Sattelle, D. B.; Bloomfield, V. A.
Laser light scattering in biochemistry. 477
- Hargreaves, A. J.** See Flaskos, J.; Mullins, F. H.
- ; Flaskos, J.; Glazier, A. P.; McLeenan, W. G.
Inhibition by p-bromophenacyl bromide of microtubule assembly in vitro. 1140
- ; McLean, W. G.
Biochemical subfractionation of retrogradely transported proteins from rat sciatic nerve. 169s
- Harnett, M. M.** See Klaus, G. G. B.
- Harper, G. P.** See O'Hare, M. C.
- Harris, F. M.** See Walton, T. J.
- Harrison, G. P.** See Lever, A. M. L.
- Harrison, R.** See Rogers, A. T.
- ; Abadah, S.; Benboubetra, M.
Purification of xanthine oxidase from human milk. 332s
- Harsa, S. H.**
—; Pyle, D. L.; Zaror, C. A.
Purification of food grade pectinase from *K. marxianus*. 413s
- Harshak, N.** See Youdin, M. B. H.
- Hart, K. W.** See Clarke, A. R.
- Hart, R. J.** See Chidwick, K.
- Hartfield, P. J.**
—; Robinson, J. M.
ATPγS activates the respiratory burst in electropermeabilized neutrophils: the role of protein kinases. 77s
- Hartley, A. D.**
—; Girstel, B.; McCarthy, J. E. G.; Tuite, M. F.
Role of the 5' mRNA leader in heat shock gene expression in yeast. 280s
- Harvey, W.** See Wasil, M.
- Harwood, J. L.** See Ashton, I. P.; Jones, A. L.; Perry, H. J.; Pugh, C. E.; Williams, M.
- Hashim, I. A.** See Siddiq, T.
- Haslam, J.**
—; Banner, M.
Daily energy expenditure in human subjects. 433s
- Hassmen, P.** See Newsholme, E. A.
- Hastings, M.** See Thompson, M.
- Hatchikian, E. C.** See Thomson, A. J.
- Hatton, M. W. C.**
—; Richardson, M.
Effects of different de-endothelializing injuries to the rabbit carotid artery on glycosaminoglycan content and sulfonation during early wound healing. 435s
- Hauschka, P. V.** See Virdi, A. S.
- Hawkins, M.** See Weeds, A. G.
- Hawkins, P.** See Cooke, F.
- Hayes, D. J.** See Goodyer, I. D.
- Hayes, N. V. L.**
—; Rayner, D. A.; Woods, A.; Baines, A. J.
P103 and A60: novel proteins of the neuronal membrane-associated cytoskeleton. 1042
- Hayman, A. R.** See Page, A.
- Haynes, L. W.**
β-Endorphin C-terminal dipeptide elicits calcium influx and release of arachidonic acid metabolism in cortical neurons. 149s
- He, S.** See Bloomfield, V. A.
- Hecker, G.**
—; Lewis, D. L.; Rausch, D. M.; Jelsema, C. L.
Nerve-growth-factor-treated and v-src-expressing PC 12 cells: a model for neuronal differentiation. 385
- Heffernan, M.**
—; Smith, A.; Curtain, D.; McDonnell, S.; Ryan, J.; Dalton, J. P.
Characterization of a cathepsin-B proteinase released by *Fasciola hepatica* (liver fluke). 27s
- Heffron, J. J. A.** See French, J.; Gilligan, C. M.
- Heilbronn, R.** See Rittner, K.
- Heinemann, S.** See Mueller, R. H.
- Heinemeyer, W.**
—; Simeon, A.; Hirsch, H. H.; Schiffer, H. H.; Teichert, U.; Wolf, D. H.
Lysosomal and nonlysosomal proteolysis in the eukaryotic cell: studies on yeast. 724
- Hemingway, J.** See Ketterman, A. J.
- Hemmings, F. J.** See Edbury, S. M.
- Hemmings, L.** See Critchley, D. R.
- Henderson, C.** See Field, M. L.
- Henderson, G. E.**
—; Mason, R. M.
Effect of oxygen tension on ³⁵S-glycosaminoglycan synthesis and UDP-sugar pool size in articular cartilage. 364s
- Henderson, L. M.** See Chappell, J. B.; Jones, O. T. G.
- Hendrickse, C.** See Winslet, M. C.
- Hendry, K. A. K.** See Sheterline, P.
- Hernenegildo, C.** See Monsalve, E.
- Hershko, A.**
The ubiquitin pathway of protein degradation and proteolysis of ubiquitin-protein conjugates. 726
- Hesketh, J.**
Association of ribosomes with myofibrils and microfilaments: a role in the spatial organization of protein synthesis. 1103
- ; Pryme, I.
Cytoskeleton: its role in cellular function. Introductory remarks. 1015
- Hesketh, J. E.** See Almaas, B.; Vedeler, A.
- Heydeman, M. T.**
Redox enzymes: a model coupled system. 401s
- Hidaka, H.**
—; Hirayama, M.
Useful characteristics and commercial applications of fructo-oligosaccharides. 561

- Higgins, C. F.** See Hannavy, K.
Higgo, J. J. W. See Wilkinson, A. E.
Hilhorst, R.
 —; Verhaert, R. M. D.; Visser, A. J. W. G.
 Characterization of protein-containing reversed micelles. 666
Hill, B. T. See Dempke, W. C. M.; McClean, S.; Shellard, S. A.; Whelan, R. D. H.
Hill, G. B. See Franklin, T. J.
Hill, K. J. See Kaszuba, M.
Hill, S. J. See Iredale, P. A.
Hipps, D. S. See Packman, L. C.
Hirayama, M. See Hidaka, H.
Hirji, M. R.
 —; Mucklow, J. C.
 A rapid bioassay technique for arginine-vasopressin. 124s
Hirsch, H. H. See Heinemeyer, W.
Hitchcock, C. A.
 Cytochrome P-450-dependent 14 α -sterol demethylase of *Candida albicans* and its interaction with azole antifungals. 782
Hobbs, M. C. See Baydoun, E. A. H.; Delarge, M. H. P.
 —; Baydoun, E. A. H.; Delarge, M. H. P.; Brett, C. T.
 Interactions between a xylosyltransferase and a glucuronyltransferase involved in glucuronoxylan synthesis in pea epicotyls. 245s
Hobbs, R. N. See Jones, C. E.
Hodgkin, M.
 —; Parry, J. B.; Mitchell, R. H.; Kirk, C. J.
 Dephosphorylation of D-myo-inositol-1,4,5-trisphosphate in testes. 105s
Hodson, S.
 —; Guggenheim, J.; Kaila, D.; Wigham, C.
 Anion pumps in ocular tissues. 849
Hoffman, R.
 —; Cameron, L.
 A scintillation proximity assay for transforming growth factor alpha (TGF α). 238s
Hofmann, F. See Huggins, J. P.
Hogervorst, E. J. M. See Van Eden, W.
Hogg, D. See Mills, G. B.
Holbrook, J. J. See Clarke, A. R.
Holland, I. B.
 —; Possot, O.; Blight, M.; Yue, K.
 Bacterial hemolysin and mammalian P-glycoprotein. 252
Hollett, T. See Sharma, E.
Hollingsworth, M. See McIlwrath, A.
Hollis, C. M.
 —; Strange, P. G.
 Chemical modification of the D₁ dopamine receptor from bovine brain. 142s
Hollomon, D. W. See Connerton, I. F.
Holm, L. See Saraste, M.
Holmes, D. F.
 —; Watson, R. B.; Kadler, K. E.
 On the regulation of collagen-fibril shape and form. 808
Holt, A. See Callingham, B. A.
Homann, M. See Sczakiel, G.
Hombroeckx, A. See Veitch, K.
Hoppener, J. W. M. See Schachter, H.
Hopps, R. M. See Wasil, M.
Horn, A. S. See Biessen, E. A. L.
Horne, D. S.
 Dynamic light scattering from casein micelle suspensions. 489
Horton, A. A. See Wood, J. M.
Horton, J. C.
 —; Harding, S. E.; Mitchell, J. R.
 Gel permeation chromatography-multi-angle laser light scattering characterization of the molecular mass distribution of 'Pronova' sodium alginate. 510
Horvath, A. R.
 —; Kiss, Z.; Anand, R.; Kellie, S.
 Association of pp60^{src} with the cytoskeleton upon platelet activation. 1150
Hosking, L. K. See Dempke, W. C. M.; McClean, S.; Shellard, S. A.; Whelan, R. D. H.
Houghton, J. A. See Doherty, D.; Doherty, D. J.
Houston, R. See Faris, F.
Howard, M. J. See Insel, P. A.
Howell, S. See Cockle, S. M.
 —; Murray, H.; Kenny, A. J.; Turner, A. J.
 A sensitive enzyme-linked immunosorbent assay for endopeptidase-24. 11. 1s
Howl, J.
 —; Kerr, I.; Chan, C. H. W.; Wheatley, M.
 Novel vasopressin receptor ligands. 87s
Hoyland, J. See Thomas, J. T.
Hu, Y.
 —; Brown, J. W. S.; Waugh, R.; Turner, P. C.
 Isolation of a potato U6 small nuclear RNA gene. 340s
Huber, A.
 Size-exclusion chromatography/low-angle laser light scattering experiments to detect aggregation phenomena in biopolymer solutions. 505
Hudson, M. J.
 —; Jones, M. N.
 The preparation and characteristics of immunoliposomes for targeting to tumor cells (A 431). 415s
Hue, L. See Veitch, K.
Huggins, J. P.
 —; Landgraf, W.; Hofmann, F.; Pelton, J. T.
 Secondary structure and conformational changes associated with substrate-binding and the N-terminus in cyclic GMP dependent protein kinase. 163s
 —; Pelton, J. T.
 Predictions of cyclic GMP-dependent protein kinase structure from its primary sequence. 162s
Hughes, A. E. See Ennis, K. T.; Hankey, D. P.
Hughes, D. See Davidson, J.
Hughes, R. K.
 —; Bennett, B.; Doyle, W. A.; Burke, J. F.; Chovnick, A.; Bray, R. C.
 Roles of molybdenum, FAD and iron-sulfur domains in molybdenum-containing hydroxylases: molecular genetic, kinetic and spectroscopic studies. 260s
Hull, E. See Schachter, H.
Hull, G. See Shewry, P. R.
Hulme, E. C.
 —; Kurtenbach, E.; Curtis, C. A. M.
 Muscarinic acetylcholine receptors: structure and function. 133
Hultman, E.
 —; Greenhaff, P. L.; Ren, J. M.; Soederlund, K.
 Energy metabolism and fatigue during intense muscle contraction. 347
Humphreys, C. J.
 —; Beidler, D.; Rudnick, G.
 Substrate and inhibitor binding and translocation by the platelet plasma membrane serotonin transporter. 95
Humphreys, S. M. See Potts, J. L.
Humphries, M. J. See Grant, M. E.; Makarem, R.; Morton, L. F.; Mould, A. P.; Tuckwell, D. S.
Hunt, A. N.
 —; Bellhouse, A. F.; Kelly, F. J.; Postle, A. D.
 Late gestation changes in rat tissue phosphatidylcholine composition. 111s
Hunt, J. A.
 —; Keen, M.
 Mechanism of thromboxane receptor activation of phospholipase A₂ in endothelial cells. 99s
Hunter, I. See Engel, J.
Hussain, A. N. See Javed, M. H.
Hussell, T. See Varey, A. M.
Hussey, C. See Byrne, D.
Hutchings, P. See Varey, A. M.
Hutson, D. H.
 —; Millburn, P.
 Enzyme-mediated selective toxicity of an organophosphate and a pyrethroid: some examples from a range of animals. 737
Iglesias, A. See Preiss, J.
Ikeda, H. See Jenkins, H. G.
Iles, R. A. See Burns, S.
Illium, L. See Muir, I. S.
Imboden, J. B.
 —; Bell, G.; Seaman, W. E.
 Characterization of signal-transducing molecules on natural killer cells. 265
Imperial, S. See Quiroga, C.
Imray, C. See Winslet, M. C.
Imray, C. H. E. See Davis, A. E.
 —; Billingham, M.; Milles, J.; Wright, A.; Filer, R.; Bradwell, J.; Neoptolemos, J. P.
 Changes in serum lipids after exercise and on exposure to altitude. 135s
 —; Davis, A.; Barker, G.; Radley, S.; Baker, P.; Neoptolemos, J. P.
 Improved human fecal bile acid excretion. 201s
Ingledeu, W. J.
 —; Bacon, M.
 A comparative review of the structure and function of cytochrome o from *Escherichia coli* and cytochrome aa₃. 613
Ingwall, J. S.
 Whole organ enzymology of the creatine kinase system in heart. 1006
Inki, P. See Jalkanen, M.
Insel, P. A.
 —; Weiss, B. A.; Slivka, S. R.; Howard, M. J.; Waite, J. J.; Godson, C. A.
 Regulation of phospholipase A₂ by receptors in MDCK-DI cells. 329
Ioannidis, N. See Cooper, C. E.
Iqbal, M. P.
 —; Mehboobali, N.; Waqar, M. A.
 Yeast cells with a low-affinity binder of methotrexate. 192s
 —; Mehboobali, N.; Waqar, M. A.; Zuberi, H. S.
 Dihydrofolate reductase from a reptile, uromastix. 193s
Iredale, P. A.
 —; Ruck, A.; Martin, K. F.; Kendall, D. A.; Hill, S. J.
 Histamine-induced changes in intracellular calcium in undifferentiated N1E-115 cells. 6s
Irvine, A. I. See McElreavey, K. D.
Irvine, G. B. See Abu Shanab, A. A.; Aldalou, A. R.; Ennis, M. P.
Itzhaki, R. F. See Jamieson, G. A.

- Iversen, L. L.**
—; Dourish, C. T.; Iversen, S. D.
Cholecystokinin receptors: synthetic antagonists with selectivity for receptor subtypes and possible clinical applications. 913
- Iversen, S. D.** See Iversen, L. L.
- Jackson, J.**
Autoantibody-facilitated proteolytic cleavage: a new pathogenic mechanism in autoimmunity. 176
- Jackson, J. B.** See Chittock, R. S.; McEwan, A. G.
Phototropic bacteria - useful organisms for class experiments. 976
- ; Lever, T. M.; Rydstrom, J.; Persson, B.; Carlenor, E.
Proton-translocating transhydrogenase from photosynthetic bacteria. 573
- Jackson, M. J.** See Foxley, A.; McArdle, A.; MacLennan, P. A.
- Jackson, P.** See Critchley, D. R.
- Jackson, R. M.** See Clarke, A. R.
- Jaenicke, T.** See Goldspink, G.
- Jain, V. K.** See Gurudutta, G. U.
- Jalkanen, M.**
—; Elenius, K.; Inki, P.; Kirjavainen, J.; Leppa, S.
Syndecan, a regulator of cell behavior, is lost in malignant transformation. 1069
- James, P.** See Egan, D. A.
- James, S.** See Richardson, P. J.
—; Richardson, P. J.; Xuereb, J. H.
Characterization and localization of the high affinity adenosine A2 receptor in rat and human brain. 7s
- Jamieson, A. M.**
—; Blackwell, J.; Zangrando, D.; Demers, A.
Quasi-elastic and total intensity light-scattering studies of mucin glycoproteins and cartilage proteoglycans. 493
- Jamieson, G. A.**
—; Maitland, N. J.; Craske, J.; Wilcock, G. K.; Itzhaki, R. F.
Detection of herpes simplex virus type 1 DNA sequences in normal and Alzheimer's disease brain using the polymerase chain reaction. 122s
- Jann, B.** See Jann, K.
- Jann, K.**
—; Jann, B.
Biochemistry and expression of bacterial capsules. 623
- Jardine, I.** See Watkins, P. J. F.
- Javed, M. H.**
—; Ashraf, G.; Waqar, M. A.
cAMP-dependent protein kinases in human tissues. 22s
Protein kinase-C in rat brain and human tissues. 23s
—; Hussain, A. N.; Waqar, M. A.
N-Acetyl- β -D-glucosaminidase isoenzyme-A in human ovarian cyst adenoma. 213s
—; Khan, N.; Waqar, M. A.
Lactate dehydrogenase isoenzymes in human intrauterine tissues. 21s
- Jayawardena, K. G. I.** See Ketterman, A. J.
- Jeffries, T. E.** See Karwatowski, W. S. S.
- Jelsema, C. L.** See Hecker, G.
- Jenkins, H. G.**
—; Kaler, B. S.; Ikeda, H.
Changes in fast axonal transport of proteins prior to demyelination in optic nerves of mice following Semliki Forest virus infection. 8s
- Jenkins, J. A.** See Goodenough, P. W.
- Jenkinson, E. J.** See Conroy, L. A.
- Jennings, P. V.** See Bacon, C. L.
- Jepras, R. I.**
—; Rarity, J.; Perkins, E. A.; Clarke, D. J.; Carr, R. J. G.; Atkinson, T.
Analysis of pH-induced population oscillations of *Saccharomyces cerevisiae* and *Escherichia coli* using photon correlation spectroscopy. 513
- John, P.**
Fructan quality and fructan synthesis. 569
- John, R. A.** See Pugh, C. E.
- Johnsen, R. M.**
—; Brown, W.
An overview of current methods of analyzing QLS data. 482
- Johnson, A.** See Burns, S.; Owens, D.
- Johnson, A. H.** See Moore, U. M.
- Johnson, M.** See Mitchell, R.
- Johnson, M. S.** See MacEwan, D. J.; Thomson, F. J.
- Johnson, P.**
—; Hammer, J. L.
Ubiquitination of smooth muscle calpain II catalytic subunit. 410s
- Johnson, P. M.** See Roberts, J. M.
- Johnston, C.**
—; Morris, J.; Hall, A.
The role of Ras in signal transduction. 296
- Johnston, G.** See Walker, C. H.
- Johnstone, D.** See Franklin, T. J.
- Jones, A. L.**
—; Lloyd, D.; Hann, A. C.; Harwood, J. L.
Lipid changes in individual membranes of *Acanthamoeba castellanii* during temperature adaptation. 318s
- Jones, C. E.**
—; Hobbs, R. N.; Ashton, B. A.
T-cell responses to human cartilage antigens in patients with inflammatory joint disease. 378s
- Jones, C. J. P.** See Behzad, F.
- Jones, M. N.** See Hudson, M. J.; Kaszuba, M.; Wilkinson, A. E.
- Jones, N. A.** See Lord, J. M.
- Jones, O. T. G.**
—; Cross, A. R.; Hancock, J. T.; Henderson, L. M.; O'Donnell, V. B.
Inhibitors of NADPH oxidase as guides to its mechanism. 70
- Jones, P.** See Lees, T.
- Jones, R.** See Williams, R. M.
- Jorfeldt, L.** See Allsop, P.
- Joseph, S.**
—; MacDermot, J.
Stimulation of U937 human monocytic cells by thrombin results in inositol trisphosphate formation and the mobilization of intracellular calcium but not the synthesis of thromboxane B₂. 89s
- Joshi, B.**
—; Joshi-Barve, S.; Rhoads, R. E.; Pain, V. M.
40S Ribosomal complexes in reticulocyte lysates treated with the heme-controlled eIF-2 α kinase. 282s
- Joshi-Barve, S.** See Joshi, B.
- Jumel, K.**
—; Browne, P.; Kennedy, J. F.
Use of low-angle laser light scattering with gel permeation chromatography for the molecular mass determination of biomolecules. 486
- Kadler, K. E.** See Brass, A.; Holmes, D. F.
- Kahari, V. M.** See Uitto, J.
- Kaila, D.** See Hodson, S.
- Kakefuda, G.** See Preiss, J.
- Kakkar, V. V.** See Wheeler-Jones, C. P. D.
- Kaler, B. S.** See Jenkins, H. G.
- Kamalati, T.** See Omar, C.
- Kamlin, F.** See Omar, C.
- Kanner, B. I.**
Amino acid neurotransmitter reuptake: mechanistic, biochemistry and molecular cloning. 92
- Kapelari, S.** See Winkler, H.
- Karecla, P. I.** See Munoz, F. M.
- Karwatowski, W.** See Young, R. D.
- Karwatowski, W. S. S.**
—; Jeffries, T. E.; Duance, V. C.; Albon, J.; Bailey, A. J.; Easty, D. L.
Collagen and aging in Bruch's membrane. 349s
- Kaszuba, M.**
—; Franklin, M.; Hill, K. J.; Jones, M. N.
The preparation and characterization of proteoliposomes for targeting to oral bacteria. 416s
- Kausar, S.**
—; Phillips, J. D.; Birch, N. J.
Species differences in lithium-sodium countertransport rate. 408s
- Kaye, B.**
Chiral drug metabolism: a perspective. 456
- Keen, M.** See Hunt, J. A.
- Keighley, M. R. B.** See Winslet, M. C.
- Kellie, S.** See Horvath, A. R.
- Kelling, P. W. N.** See Carr, E. P.
- Kelly, C. T.** See Bourke, A. C. M.; Doyle, E. M.
- Kelly, F. J.** See Burdge, G. C.; Hunt, A. N.
- Kelly, S. L.**
—; Rowe, J.; Watson, P. F.
Molecular genetic studies on the mode of action of azole antifungal agents. 796
- Kelly, S. M.**
—; Price, N. C.
The refolding of mitochondrial proteins after denaturation. 204s
- Kelton, J. G.** See Murphy, W. G.
- Kemp, G. J.**
—; Bevington, A.
Net membrane permeability to inorganic phosphate: a key factor controlling transient changes in cellular inorganic phosphate concentration. 176s
—; Taylor, D. J.; Dunn, J. F.; Radda, G. K.
Proton buffering in human skeletal muscle studied in vivo by phosphorus magnetic resonance spectroscopy. 207s
- Kendall, D. A.** See Iredale, P. A.
- Kenna, J. G.**
The molecular basis of halothane-induced hepatitis. 191
- Kennedy, D. G.** See Walsh, D. M.
- Kennedy, J. F.** See Jumel, K.
- Kennedy, K.**
—; Bloor, D.; Barber, J.
The molecular basis of the interaction of EF-Tu with kirromycin: overproduction of perdeuterated EF-Tu. 284s
- Kennedy, S.** See Walsh, D. M.
- Kenney, A.** See Claes, P.
- Kenny, A. J.** See Howell, S.
- Kenton, P.** See Roberts, J. M.
- Kernen, P.** See Baggiolini, M.
- Kerr, I.** See Howl, J.
- Ketterman, A. J.**
Polymorphisms of human liver carbonyl esterases. 306s

- ; Jayawardena, K. G. I.; Hemingway, J.
Purification and characterization of a mosquito carboxylesterase involved in insecticide resistance. 305s
- Khan, J. A.** See Walton, T. J.
- Khan, N.** See Javed, M. H.
- Kielty, C. M.**
—; Shuttleworth, C. A.; Grant, M. E.
Studies on microfibrils of developing bovine elastic tissues. 383s
A collagenase-sensitive glycoprotein identified in fetal bovine cell cultures. 385s
- ; Whittaker, S. P.; Grant, M. E.; Shuttleworth, C. A.
Type VI collagen forms a structural association with hyaluronan in vivo. 384s
- Kim, H.** See Rhee, S. G.
- Kim, U. S.** See Schurr, J. M.
- King, I. A.** See Wheeler, G. N.
- Kinsella, V. A.**
—; Berns, G. J.; O'Kennedy, R.
A modified thiobarbituric acid method for the determination of N-acetylneuraminic acid. 56s
- Kirby, C. R.** See Booth, F. W.
- Kirchin, M. A.** See Winston, G. W.
- Kirjavainen, J.** See Jalkanen, M.
- Kirk, C. J.** See Hodgkin, M.; Pancholi, S.
- Kirkeide, E. K.**
—; Pryme, I. F.; Vedeler, A.
Changes in amounts of polysomes in free, cytoskeleton-bound and membrane-bound populations in Krebs II ascites cells subjected to different growth conditions. 1136
- Kirkham, D. M.**
—; Murphy, G. J.; Young, P.
G_i function in the streptozotocin-treated diabetic rat liver. 80s
- Kirkness, E. F.** See Turner, A. J.
- Kiss, Z.** See Horvath, A. R.
- Klaenhammer, T. R.**
Development of bacteriophage-resistant strains of lactic acid bacteria. 675
- Klaus, G. G. B.**
—; Harnett, M. M.
Cross-talk between surface immunoglobulin and interleukin-4 receptors on murine B-lymphocytes. 272
- Kleinschmidt, J. A.** See Rittner, K.
- Knautz, D.** See Von Eichel-Streiber, C.
- Knecht, E.**
—; Palmer, A.; Sweeney, S. T.; Rivett, A. J.
Immunocytochemical localization of the multicatalytic proteinase in rat liver and in L-132 cells. 293s
- Knight, C. G.** See Morton, L. F.
- ; Barrett, A. J.
N-[1(RS)-Carboxy-3-phenylpropyl]peptides as inhibitors of thimet oligopeptidase. 290s
- Knight, S. W.**
—; Docherty, K.
The identification of protein-RNA interactions within the 5'-untranslated region of human preproinsulin mRNA. 120s
- Knox, M.** See McKee, R. A.
- Kodama, K. H.** See Berka, R. M.
- Kok, J.**
Proteinase genes of cheese starter cultures. 670
- Koklitis, P. A.** See Chopra, R.
- ; Chopra, R.; O'Connell, J.; Angal, S.
Recombinant human and dog procolagenases. Purification and characterization. 371s
- Konijn, A. M.** See Simpson, R. J.
- Koochaki, Z.** See Vadgama, P.
- Kordeli, E.** See Bennett, V.
- Koretsky, A. P.** See Brosnan, M. J.
- Kotelyanskii, V. E.**
—; Belkin, A. M.; Frid, M. G.; Glukhova, M. A.
Developmental changes in expression of adhesion-mediating proteins in human aortic smooth muscle. 1072
- Krause, U.**
—; Wegener, G.
Metabolic changes in skeletal muscle of frog during exercise and recovery. 137s
- Kudo, A.** See Rolink, A.
- Kuhlman, P.** See Critchley, D. R.
- Kuhn, N. J.** See Djabballah, H.
- Kunimoto, M.** See Bennett, V.
- Kurtenbach, E.** See Hulme, E. C.
- Lam, Z.**
—; Beynon, L.; Comisarow, M. B.; Dutton, G. G. S.; Bjarnason, A.
Laser-desorption-ionization Fourier-transform ion-cyclotron-resonance (LDI-FT-ICR) MS of bacterial oligosaccharides. 922
- Lambert, D. G.** See Naahorski, S. R.
- ; Wojcikiewicz, R. J. H.; Nahorski, S. R.
Generation and metabolism of Ins(1,4,5)P₃ in SH-SY5Y human neuroblastoma cells: the regulatory role of calcium. 424s
- Lambert, S.** See Bennett, V.
- Landgraf, W.** See Huggins, J. P.
- Langa, F.**
—; Gracia, V.; Gelpi, J. L.; Mazo, A.; Cortes, A.
Comparative analysis of the binding of multiple forms of mitochondrial malate dehydrogenase to the inner membrane of the mitochondria. 73s
- Langer, S. Z.** See Graham, D.
- Langley, K. H.**
Developments in electrophoretic laser light scattering and some biochemical applications. 484
- Langmack, K.**
—; Saibil, H.
Signal transduction in photoreceptors. 858
- Langridge, J. I.** See Walton, T. J.
- Lappin, T. R. J.** See Afrasiabi, M.
- Larkin, S.**
—; Tait, S.; Martin, F.
The association of transcription factor Pit 1/GHF-1 with Pit and Oct binding elements. 43s
- Larsen, R. D.** See Lowe, J. B.
- Larson, D. E.**
—; Berger, L. C.; Sienna, N.; Sells, B. H.
Cytoskeletal association of mRNAs during growth stimulation. 1099
- Lasham, A.**
—; Bateson, A. N.; Darlison, M. G.
Alternative splicing increases GABA_A receptor heterogeneity. 9s
- Lawler, S. E.** See Orprayoon, P.; Quinn, D.
- ; Pitts, J. E.; Mantaounis, D.; Gill, R.; Uusitalo, J.; Penttila, M.
Secretion of a chymosin-insulin fusion in *Trichoderma reesei*. 248s
- Lawson, N.** See Winslet, M. C.
- Leahy, M.**
—; Fanning, S.; O'Gara, F.; Sheehan, D.
Effect of divalent metal cations on *Rhizobium meliloti* β -galactosidase. 19s
- Leaver, H. A.** See Qu, J.
- ; Qu, J.; Yap, P. L.; Aldhous, M. C.; Wilson, N. H.
Phosphoinositide and superoxide responses to endotoxin during HL-60 cell differentiation. 96s
- Ledbetter, J. A.**
—; Grosmaire, L. S.; Tsu, T. T.; Schieven, G. L.
Tyrosine phosphorylation regulates phospholipase C activation in human T-cells. 269
- Lee, A. G.** See Mata, A. M.
- Lee, K. S.** See McCaffery, A. R.
- Lees, T.**
—; Maltin, C. A.; Mantle, D.
Effect of clenbuterol on the activity of proteolytic enzymes partially purified from rat skeletal muscle. 214s
- ; Mantle, D.
Analysis of plasma lactate levels following ischemic exercise in patients with suspected metabolic myopathy. 216s
- ; Mantle, D.; Walker, D.; Jones, P.; Blake, D.
Identification of aminopeptidases in synovial fluid from rheumatoid arthritis patients. 215s
- Lehane, M.** See Gillian, C. M.
- Leighton, B.** See Foot, E. A.; Parry-Billings, M.
- ; Arnolda, L.
Effect of electrical stimulation of the sciatic nerve in anesthetized rats on the content of CGRP in rat skeletal muscle. 134s
- Lemieux, L.** See Saraste, M.
- Lemoine, G.** See Teutsch, G.
- Leoncini, R.** See Pagani, R.; Pizzichini, M.; Tabucchi, A.
- Leppa, S.** See Jalkanen, M.
- Lesot, H.** See Smith, A. J.
- Lever, A. M. L.**
Retroviral vectors. 379
- ; Richardson, J. H.; Harrison, G. P.
Retroviral RNA packaging. 963
- Lever, T. M.** See Jackson, J. B.
- Levine, B. A.** See Ellis, L.
- ; Moir, A. J. G.; Goodearl, A. J.; Trayer, I. P.
Characterization of the nucleotide-modulated interaction of myosin with actin by NMR spectroscopy. 423
- Lewis, D. L.** See Hecker, G.
- Lewis, R. A.**
Rational methods for site-directed drug design: novel approaches for the discovery of potential ligands. 883
- Lewis, T.** See Pugh, C. E.
- Ley, G. W.** See Fell, A. F.
- Li, A. Z.** See Bloomfield, V. A.
- Li, L.** See Preiss, J.
- Limatola, C.** See Spinedi, A.
- Lincoln, R. A.**
—; Strupinski, K.; Walker, J. M.
Studies on a toxin produced by the cyanobacterium *Phormidium persicinum*. 428s
Enzyme inhibitors from algae. 429s
- Lindsay, J. G.** See Rice, J. E.
- Lindstrom, J.**
—; Schoepfer, R.; Whiting, P.; Anand, R.; Conroy, W. G.; Saedi, M. S.; Das, M.
Monoclonal antibody probes for nicotinic receptors of muscles and nerves. 115
- Linton, E.** See Castro, M.
- Liscovitch, M.**
Signal-dependent activation of phosphatidylcholine hydrolysis: role of phospholipase D. 402

- Livesley, M. A.**
—; Bray, C. M.
Alpha-amylase isoenzymes in aged wheat aleurone layers. 360s
- Livingstone, D. R.** See Chipman, J. K.
- Lloyd, D.** See Jones, A. L.
- Luis, C.** See Sayos, J.
- Loeffler, R. S. T.** See Connerton, I. F.
- Logan, A.** See Cummins, P.
- Logan, S. D.**
—; McDermott, E. E.
Inositol lipid metabolism in hippocampus. 407
- Lomax, J. A.**
—; Commandeur, J. M.; Boon, J. J.
Pyrolysis mass spectrometry of polysaccharides. 935
- Long, W. F.** See Grant, D.
- Loo, J. A.** See Edmonds, C. G.
- Loo, R. R. O.** See Edmonds, C. G.
- Lopez-Barea, J.** See Pascual, P.; Rodriguez-Ariza, A.
- Lord, J. M.** See Baxter, M. A.
—; Bunce, C. M.; French, P. J.; Jones, N. A.; Baxter, M. A.; Grafton, G.; Michell, R. H.; Brown, G.
Protein phosphorylation events and changes in inositol metabolism during HL60 cell differentiation. 315
- Lovell, C. R.** See Finnen, M. J.
- Lowe, A. G.** See Critchley, A. J.; Thorne, S. D.
- Lowe, G. M.** See Graham, D. L. V.
- Lowe, J. B.**
—; Stoolman, L. M.; Nair, R. P.; Larsen, R. D.; Behrend, T. L.; Marks, R. M.
A transfected human fucosyltransferase cDNA determines biosynthesis of oligosaccharide ligand(s) for endothelial leukocyte adhesion molecule I. 649
- Lowe, P. N.** See Eccleston, J. F.
- Lowenstein, P.** See Castro, M.
- Lowry, P.** See Castro, M.
- Ludlow, I. K.** See Everitt, J.
- Luebben, M.** See Saraste, M.
- Luke, G.** See Page, N.
- Luly, P.** See Spinedi, A.
- Lund, B. M.** See McKee, R. A.
- Lunt, G. G.** See Rogers, A. T.
- Lye, G. J.**
—; Asenjo, J. A.; Pyle, L.
Mass transfer studies on the extraction and separation of proteins using reverse micelles. 275s
- Lynch, M. A.**
—; Clements, M. P.; Voss, K. L.; Bramham, C. R.; Bliss, T. V. P.
Is arachidonic acid a retrograde messenger in long-term potentiation? 391
- Lynn, S.**
—; Gulab, P.; Goodacre, J. A.; Middleton, S.; Pearson, J. P.
Deglycosylation of cartilage proteoglycans and their T cell responses. 386s
- Lyons, S. A.** See Morell, P.
- McArdle, A.**
—; Foxley, A.; Edwards, R. H. T.; Jackson, M. J.
Prostaglandin metabolism in dystrophin-deficient MDX mouse muscles. 177s
- McBrien, N. A.**
—; Moghaddam, H. O.; Reeder, A. P.; Moules, S.
Structural and biochemical changes in the sclera of experimentally myopic eyes. 861
- McCaffery, A. R.**
—; Walker, C. H.; Clarke, S. E.; Lee, K. S.
Enzymes and resistance to insecticides in *Heliothis virescens*. 762
- McCann, J. J.** See Ennis, M. P.
- McCarthy, J. E. G.** See Hartley, A. D.
- McCarthy, J. P.**
—; Faulkner, A.; Martin, P. A.; Flint, D. J.
Gastric inhibitory polypeptide responses to nutrient absorption in ruminants. 315s
- McCarthy, T. V.** See Gillian, C. M.
- McClean, S.**
—; Whelan, R. D. H.; Hosking, L. K.; Hill, B. T.
Expression of drug resistance in Chinese hamster ovary (CHO) cells following x-ray pre-treatment in vitro. 278s
- McClue, S. J.** See Milligan, G.
- McCormack, J. G.** See Allen, S. P.
- McCulloch, I. Y.** See Morton, L. F.
- MacDermot, J.** See Joseph, S.
- McDermott, E. E.** See Logan, S. D.
- McDonald, C. J.** See Roberts, S. G. E.
- McDonald, C. M.**
Regulatory implications: a company's perspective. 467
- McDonnell, S.** See Heffernan, M.
- McElreavey, K. D.**
—; Irvine, A. I.; Ennis, K. T.; McLeenan, W. H. I.
Isolation, culture and characterization of fibroblast-like cells derived from the Wharton's jelly portion of human umbilical cord. 29s
- McEwan, A. G.**
—; Benson, N.; Bonnett, T. C.; Hanson, S. P.; Ferguson, S. J.; Richardson, D. J.; Jackson, J. B.
Bacterial dimethyl sulfoxide reductases and nitrate reductases. 605
- McEwan, D. J.** See Mitchell, R.; Thomson, F. J.
—; Mitchell, R.; Johnson, M. S.; Thomson, F. J.
Protein kinase C-dependent and -independent actions of arachidonic acid in GH₃ cells. 115s
- McFadden, J. P.**
—; Quinn, D. G.; Camp, R. D. R.
In vitro lymphocyte proliferative response to streptococcal M protein in psoriasis. 15s
- McGlinchey, E.** See O'Leary, R.
- McGrath-Linden, S. J.** See Ennis, M. P.
- McGregor, A.** See Critchley, D. R.
- McGuckin, C. P.** See Gilmore, W. S.
- Maciewicz, R. A.** See Van der Stappen, J. W. J.
—; Hall, A. C.; Urban, J. P. G.
Effect of physiological pressure on the secretion of cysteine proteinases and their inhibitors from articular cartilage. 396s
- McIlwrath, A.**
—; Downing, S. J.; Hollingsworth, M.
Relaxin and cAMP in rat uterus in vivo. 356s
- McIntosh, N.** See Dyer, J. J.
—; Stephen, R. I.; Arkley, M. M.; Smith, A.
Immunoreactive [arginine] vasopressin (AVP) in human fetal and neonatal muscle. 175s
- McKee, R. A.**
—; Gooding, C. M.; Garrett, S. D.; Powell, H. A.; Lund, B. M.; Knox, M.
DNA probes and the detection of food-borne pathogens using the polymerase chain reaction. 698
- McKenna, K. T.** See McLean, W. H. I.
- McKenna, N. J.** See Ennis, M. P.
- McKenna, P.**
—; Hanson, P. J.
Lack of effect of epidermal growth factor on radiolabelled diacylglycerol in rat parietal cells. 107s
- Mackenzie, A. R.** See Chidwick, K.
- McKenzie, F. R.**
—; Adie, E. J.; Milligan, G.
Prostanoid-mediated downregulation of G_s in NG108-15 cells. 81s
- Mackness, M. I.** See Haggas, R. L.; Walker, C. H.
- ; Arrol, S.; Durrington, P. N.**
Substrate specificity of human serum paraoxonase. 304s
- MacLachlan, L. K.** See Sweeney, P. J.
- McLean, W. G.** See Flaskos, J.; Hargreaves, A. J.; Mullins, F. H.
- McLean, W. H. I.** See Anderson, S. M. L.; Ennis, K. T.; Hankey, D. P.; McElreavey, K. D.
—; McKenna, K. T.; Anderson, S. M. L.; Nevin, N. C.
Protein analysis in epidermolysis bullosa. 60s
- McLennan, A. G.** See Chen, H.
- MacLennan, P. A.**
—; Jackson, M. J.; Edwards, R. H. T.
DNA concentrations are increased in MDX mouse muscles. 178s
- McLeod, D.** See Bishop, P. N.
- McLoughlin, A. J.** See Byrne, D.
- McLoughlin, D. M.**
—; Stapleton, P. P.; Bloomfield, F. J.
Influence of taurine and a substituted taurine on the respiratory burst pathway in the inflammatory response. 73
- McNally, J.** See O'Donovan, S.
- MacNulty, E. E.** See Milligan, G.; Plevin, R.
- McNulty, S.**
—; Saylor, R.; Rumsby, M.
Ethanolamine as well as choline is released to the external medium on phorbol ester and fetal calf serum stimulation of glial cells in primary culture. 153s
- McPherson, M. A.** See Pereira, M. M. C.
- McQuay, S. J.**
The interpretation of alignments between proteins of unusual sequence composition. 523
- Madgwick, S. A.** See Rich, P. R.
- Madhavankutty, K.** See Payne, R. H.
- Magee, A. I.** See Wheeler, G. N.
- Maggi, C. A.**
—; Patacchini, R.; Rovero, P.; Giuliani, S.; Giachetti, A.
Tachykinin receptor antagonists and potential clinical applications at peripheral level. 909
- Maher, W. J.**
—; Phillips, O. M.; Williams, D. C.
The design of photoaffinity labels for the characterization of the 5-hydroxytryptamine transporter on human platelet membranes. 10s
- Mahoney, A.** See Wali, F. A.
- Maitland, N. J.** See Jamieson, G. A.
- Makarem, R.**
—; Humphries, M. J.
LDV: a novel cell adhesion motif recognized by the integrin $\alpha 4 \beta 1$. 380s
- Makinde, V.** See Wali, F. A.
- Malcolm, A. D. B.** See Omar, C.
- Malik, Z. A.** See Wood, A. J.

- Mallol, J.** See Sayos, J.
Malloy, C. R. See Sumegi, B.
Maltin, C. A. See Lees, T.
Mangan, D. J.
 —; O'Sullivan, N. M.; Doonan, S.
 Reassignment of the cytosolic and mitochondrial isoenzymes of fumarate from yeast. 18s
Mann, M. See Chapman, J. R.
Mann, M. M. See Funderburgh, J. L.
Mantafounis, D. See Lawler, S. E.; Orprayoon, P.; Pitts, J. E.; Quinn, D.
Mantle, D. See Lees, T.
Mantle, T. See Ryan, J.
Marcantonio, J. M.
 —; Duncan, G.
 Calcium-induced degradation of the lens cytoskeleton. 1148
Marinello, E. See Pagani, R.
 —; Pagani, R.; Carlucci, F.; Molinelli, M.; Valerio, P.; Tabucchi, A.
 The purine nucleotide content in normal human lymphocytes. 347s
 —; Pagani, R.; Carlucci, F.; Pizzichini, M.; Valerio, P.; Molinelli, M.; Dispensa, E.; Tabucchi, A.
 Purine de novo synthesis and enzymes at the inosinic branch point in human lymphocytes. 343s
 An evaluation of purine nucleotide metabolism in human lymphocytes. 348s
Marks, A. See Gillian, C. M.
Marks, R. M. See Lowe, J. B.
Marra, A. See Reuber, T. L.
Marsh, J. W. See Chipman, J. K.
Martin, A. See Simpson, K. J.
Martin, C. See Smith, A. M.
Martin, F. See Giafri, S.; Larkin, S.
Martin, K. F. See Iredale, P. A.
Martin, P. A. See McCarthy, J. P.
Martin, S. A. M.
 —; Stefani, L. A. J.
 Genetic regulation of the pituitary control of smolting and sexual maturation in Atlantic salmon. 199s
Martin, S. R. See Bayley, P. M.
Martindale, J. See Goldspink, G.
Martinez-Lara, E. See Pascual, P.
Martyn, J. See Ward, J. M.
Marway, J. S. See Banerjee, A. K.; Siddiq, T.
 —; Salisbury, J. R.; Preedy, V. R.
 Effects of acute ethanol toxicity on protein synthesis in three anatomically distinct regions of the rat gut. 165s
Mascini, M. See Palleschi, G.
Maskell, D.
 —; Moxon, E. R.
 Genetics of Haemophilus influenzae lipopolysaccharide expression. 631
Mason, R. M. See Henderson, G. E.
 —; Goh, D. C. L.
 Iodoacetate action on articular cartilage chondrocytes. 363s
Massague, J. See Pandiella, A.
Mata, A. M.
 —; Colyer, J.; Michelangeli, F.; Lee, A. G.; East, J. M.
 The effect of a monoclonal antibody on specific steps of the reaction sequence of the calcium-magnesium ATPase from sarcoplasmic reticulum. 205s
Matharu, P. J.
 —; Sweeney, G. E.
 Detection of genes encoding novel members of the ligand responsive transcription factor superfamily in Xenopus laevis. 330s
Matthews, J. B. See Aulak, K. S.
Maudsley, D. J.
 Role of oncogenes in the regulation of MHC antigen expression. 291
Maurizi, M. R.
 ATP-promoted interaction between Clp A and Clp P in activation of Clp protease from Escherichia coli. 719
Mayes, P. A. See Guldur, T.; Mindham, M. A.
Mayne, R.
 —; Brewton, R. G.; Wright, D. W.; Ren, Z. X.
 Morphological and biochemical studies of the structure of the vitreous and the zonular fibers. 868
Mazo, A. See Langa, F.
Mbafor, W. See Andrews, A. T.
Meade, G. A. See Reville, W. J.
Meats, J. E.
 —; Steele, L.
 Murine macrophage phospholipase A₂. 110s
Medina, J. M. See Alonso de la Torre, S. R.; Vicario, C.
Mehboobali, N. See Iqbal, M. P.
Melchers, F. See Rolink, A.
Meldrum, R. A.
 —; Wharton, C. W.
 Stimulation of DNA synthesis by 340nm/351nm UV laser irradiation. 119s
Mellors, A. See Mills, G. B.
Mercer, E. I.
 Morpholine antifungals and their mode of action. 788
Merritt, J. E. See Moores, K. E.
Michelangeli, F. See Mata, A. M.
 Fluo-3, an ideal calcium indicator for measuring calcium fluxes in SR and ER. 183s
Michell, R. H. See Baxter, M. A.; Conroy, L. A.; Finney, M.; Hodgkin, M.; Lord, J. M.
Middleton, S. See Lynn, S.
Millburn, P. See Hutson, D. H.
Milles, J. See Imray, C. H. E.
Millest, A. J. See Franklin, T. J.
Milligan, G. See Green, A.; McKenzie, F. R.; Mitchell, F. M.
 —; MacNulty, E. E.; McClue, S. J.; Wakelam, M. J. O.
 Signal transduction in rat-1 fibroblasts expressing high levels of the $\alpha 2$ -C10 adrenergic receptor. 102s
Millner, P. A. See Clarkson, J.
Mills, G. B.
 —; Zhang, N.; Schmandt, R.; Fung, M.; Greene, W.; Mellors, A.; Hogg, D.
 Transmembrane signalling by interleukin 2. 277
Milson, D. W. See Abadom, F. E.
Milton, A. S. See Dutta-Roy, A. K.
Mindham, M. A.
 —; Mayes, P. A.
 Lack of apolipoprotein synthesis by rat spleen. 325s
Minoura, T. See Davis, A. E.
Misselwitz, R. See Gast, K.
Mitchell, F. M.
 —; Milligan, G.
 U937 cell differentiation: G protein alterations and interaction with the chemotactic peptide receptor. 98s
Mitchell, J. R. See Horton, J. C.
Mitchell, R. See MacEwan, D. J.; Thomson, F. J.
 —; MacEwan, D. J.; Dougan, L.; Johnson, M.; Thomson, F.
 Does inositol hexakisphosphate induce calcium entry into GH₃ cells? 116s
Mock, K. K.
 —; Davey, M.; Stevenson, M. P.; Cottrell, J. S.
 The integration of mass spectrometry into the biochemistry laboratory. 948
Moertvedt, C. See Blom, H.
Moffat, C. F. See Grant, D.
Moghaddam, H. O. See McBrien, N. A.
Moghimi, S. M. See Muir, I. S.
Moir, A. J. G. See Levine, B. A.
Molinelli, M. See Marinello, E.
Moloney, D. B.
 —; O'Connor, C. M.; Fitzgerald, M. X.
 Human neutrophil collagenase. Its isolation and purification. 62s
Monsalve, E.
 —; Hermenegildo, C.; Nies, E.; Puerstas, F. J.; Almar, M. M.; Collado, P. S.; Gonzalez, J.; Romero, F. J.
 Some glutathione-related enzymic activities in skeletal muscle and myocardium of the rat. Adaptations to endurance training. 240s
Montgomery, P. C. See Pockley, A. G.
Moody, A. J. See Cooper, C. E.
 Ligation and electronation states of cytochrome-c oxidase in relation to other oxidases and peroxidases. 617
 —; Rich, P. R.
 Heterogeneity in fast cyanide-binding preparations of cytochrome-c oxidase. 262s
Moore, D. J. See Goosey, M. W.
Moore, K. J. M. See Eccleston, J. F.
Moore, U. M.
 —; Johnson, A. H.; Tomkin, G. H.; Collins, P. B.
 Normalization of intestinal cholesterologenesis following insulin administration in streptozotocin diabetic rats. 65s
Moores, K. E.
 —; Merritt, J. E.
 Effects of lipoxin A₄ on cytosolic calcium in human neutrophils. 78s
Morell, P.
 —; Allen, A. C.; Gammon, C. M.; Lyons, S. A.
 Arachidonate release consequent to bradykinin-stimulated phospholipid metabolism in dorsal root ganglion cells. 411
Morgan, A. See Burgoyne, R. D.
Morgan, J. See Coulton, G.
Morgan, P. J. See Thompson, M.
Moritz, R. L. See Schachter, H.
Morris, A. J. See Harden, T. K.
Morris, G. M.
 —; Richards, W. G.
 Molecular modeling of the sterol C-14 demethylase of Saccharomyces cerevisiae. 793
Morris, J. See Johnston, C.
Morris, W. B. See Franklin, T. J.
Morrison, J. F. B. See Nimmo, A. J.
Morton, L. F.
 —; Zijenah, L. S.; McCulloch, I. Y.; Knight, C. G.; Humphries, M. J.; Barnes, M. J.
 Integrin-dependent platelet recognition sites in collagen: identification of a short platelet-reactive sequence in the type III-derived fragment $\alpha 1$ (III)CB3. 439s
Moscone, D. See Palleschi, G.
Moshtaghie, A. A.
 —; Ani, M.; Taher, M.
 Identification of transferrin in mitochondria isolated from rat liver. 67s
Mosley, M. See Murray, D. C. W.
Moss, R.
 —; Pryme, I. F.; Vedeler, A.
 Difference in patterns of proteins isolated from polysomes in free, cytoskeleton-bound and mem=

- brane-bound fractions in MPC-II cells incubated with insulin. 1138
- Mould, A. P.**
—; Askari, J. A.; Akiyama, S. K.; Yamada, K. M.; Humphries, M. J. An assessment of the efficacy of anti-integrin α subunit monoclonal antibody production using affinity purified β_1 -integrin dimers as immunogen. 361s
- Moules, S.** See McBrien, N. A.
- Moxon, E. R.** See Maskell, D.
- Moynagh, P. N.**
—; Bailey, C. J.; Williams, D. C. Purification and immunological studies on the peripheral type benzodiazepine receptor. 11s
- Mucklow, J. C.** See Hirji, M. R.
- Mueller, R. H.**
—; Heinemann, S. Photon correlation spectroscopy and zeta potential characterization of model particles and colloidal drug carriers - essential information for the interpretation of cell culture studies. 502
- Muir, I. S.**
—; Moghimi, S. M.; Illium, L.; Davis, S. S.; Davies, M. C. The effect of block copolymers on the uptake of model polystyrene microspheres by Kupffer cells - in vitro and in vivo studies. 329s
- Mukai, Y.** See Youdin, M. B. H.
- Mulholland, F.**
Flavor peptides: the potential role of Lactococcal peptidases in their production. 685
- Mullins, F. H.**
—; Hargreaves, A. J.; McLean, W. G. Tubulin:tyrosine ligase activity in regenerating peripheral nerve. 1143
- Mullmann, T. J.** See Billah, M. M.
- Munoz, F. M.**
—; Karecla, P. I.; Bayley, P. M. Quasi-elastic light-scattering studies of the assembly properties of microtubules. 491
- Murdoch, A. D.** See Butterworth, H. C.
—; Canfield, A. E.; Grant, M. E.; Boot-Handford, R. P. Maintenance of collagen IV expression by bovine retinal pericytes isolated directly onto Matrigel film. 368s
—; Grant, M. E.; Boot-Handford, R. P. Effects of hyperglycemic conditions on basement membrane gene expression in cultured cells. 369s
- Murphy, C. T.** See Wasil, M.
- Murphy, G. J.** See Kirkham, D. M.
- Murphy, W. G.**
—; Kelton, J. G. Immune hemolytic anemia and thrombocytopenia: drugs and autoantibodies. 183
- Murray, D.**
—; Ashley, R. An intracellular anion channel from rat brain microsomes which is also permeable to cations. 255s
- Murray, D. C. W.**
—; Mosley, M.; Strange, P. G. Muscarinic acetylcholine receptors in the lung. 145s
- Murray, H.** See Howell, S.
- Myerscough, N.** See Corfield, A. P.
- Mynett, J. R.** See Fuller, S. J.
- Mynott, C. L.**
—; Pinches, S. A.; Garner, A.; Shirazi-Beechey, S. P. Location and characteristics of epidermal growth factor binding to enterocyte plasma membranes. 307s
- Naaborski, S. R.**
—; Lambert, D. G.; Wojcikiewicz, R. J. H.; Challiss, R. A. J.; Safrany, S. T. Neuronal muscarinic receptors and phosphoinositide metabolism. 416
- Naase, M.** See Nicholson, B. H.
- Nagai, T.** See Aota, S.
- Nagase, H.**
—; Ogata, Y.; Suzuki, K.; Enghild, J. J.; Salvesen, G. Substrate specificities and activation mechanisms of matrix metalloproteinases. 715
- Naborski, S. R.** See Challiss, R. A. J.; Chilvers, E. R.; Lambert, D. G.; Wojcikiewicz, R. J. H.
- Nair, R. P.** See Lowe, J. B.
- Nalini, V.** See Slingsby, C.
- Naru, A. M.** See Yasmin, R.
- Nash, J. A. B.**
—; Carden, M. J. The largest neurofilament component assembles in non-neuronal cells (fibroblasts), but is not phosphorylated. 1147
- Nebballi, M.**
—; Brown, S. Human red cell malate dehydrogenase purification and antibody production. 232s
- Neill, D.** See Davidson, J.
- Nelson, A. A.** See Gilmore, W. S.
- Nelson, J.** See Aldalou, A. R.
- Nelson, R. W.** See Allen, M. H.
- Nelson, W. J.**
Generation of plasma membrane domains in polarized epithelial cells: role of cell-cell contacts and assembly of the membrane cytoskeleton. 1055
- Neoptolemos, J.** See Winslet, M. C.; Wood, A. J.
- Neoptolemos, J. P.** See Davis, A. E.; Imray, C. H. E.
- Neuzil, E.** See Vidal, Y.
- Nevin, N. C.** See Ennis, K. T.; McLeenan, W. H. I.
- Newman-Tancredi, A.**
—; Strange, P. G. High level expression of serotonin (5HT-1a) receptor in animal cells. 144s
- Newsholme, E. A.** See Bevan, S. J.; Calder, P. C.; Parry-Billings, M.
—; Blomstrand, E.; Hassmen, P.; Ekblom, B. Physical and mental fatigue: do changes in plasma amino acids play a role? 358
- Newton, R. P.** See Cooke, C. J.; Robinson, P.; Walton, T. J.
- Nicholas, P. C.**
—; Thomas, D. L. The measurement of γ -glutamyl transferase activity in sheep liver, kidney and pancreas with oxidized glutathione. A comparison with the activities found using γ -glutamyl p-nitroanilide in the absence and presence of glycylglycine. 49s
The reaction of oxidized and reduced glutathione (with some amino acids) and L- γ -glutamyl p-nitroanilide with sheep kidney tissue homogenate. An examination of the reaction products by paper chromatography. 50s
The determination of γ -glutamyl transferase (EC 2.3.2.2) with oxidized glutathione, glutamate dehydrogenase, NAD and tetrazolium salts. A method appropriate to kinetic measurements and enzymic staining after electrophoresis. 51s
- Nicholls, D. G.** See Courtney, M. J.
- Nicholls, P.**
—; Obinger, C.; Niederhauser, H.; Peschek, G. A. Cytochrome c and c-554 oxidation by membranous *Anacystis nidulans* cytochrome oxidase. 252s
- Nicholson, B. H.** See Tarnoky, A. L. Symmetric constraints and the active site of MAO-B. 24s
—; Naase, M. Structural comparison of three viral "fusion" proteins. 312s
- Nicolaides, K. H.** See Aliakbar, S.
- Niederhauser, H.** See Nicholls, P.
- Nielson, C. P.** See Cockcroft, S.
- Nies, E.** See Monsalve, E.
- Nimmo, A. J.**
—; Carstairs, J. R.; Whitaker, E. M.; Morrison, J. F. B. An alternative interpretation of multiple-affinity agonist binding to β -adrenoceptors. 357s
—; Whitaker, E. M.; Morrison, J. F. B. Progesterone promotes the coupling of β -adrenoceptors to G-proteins in rat myometrium. 181s
- Nimmo, I. A.** See Forrest, I. A.
- Nique, F.** See Teutsch, G.
- Niven, G. W.**
Aminopeptidase A from *Lactococcus lactis*. 273s
- Nugent, P.** See Orprayoon, P.
- Nunn, D. L.**
—; Taylor, C. W. Regulation of calcium mobilization by Ins(1,4,5)P₃ and intraluminal calcium in permeabilized hepatocytes. 206s
- Obaid, A. L.** See Sattelle, D. B.
- Obinger, C.** See Nicholls, P.
- O'Connell, J.** See Koklitis, P. A.
—; Doonan, S. cDNA cloning of genes from the fungus *Armillaria mellea*. 45s
- O'Connor, B.** See Elmore, M.; O'Leary, R.; Smyth, M.
- O'Connor, C.** See Dempsey, M.
- O'Connor, C. M.** See Moloney, D. B.
- O'Cuinn, G.** See Bacon, C. L.; Elmore, M.; Smyth, M.
- Odijk, T.** See Van der Schoot, P. Static and dynamic light scattering by semidilute rod-like polyelectrolyte solutions. 482
- O'Donnell, L.** See Owens, D.
- O'Donnell, V. B.** See Jones, O. T. G.
- O'Donovan, S.**
—; McNally, J.; Dalton, J. P. Identification of a putative erythrocyte receptor of P.c. chabaudi. 39s
- Oelze, I.** See Rittner, K.
- O'Flaherty, M. R.** See Walton, P. W.
- O'Gara, F.** See Leahy, M.
- O'Gara, P.** See Donlon, B.
- Ogata, Y.** See Nagase, H.
- O'Grady, J. E.** See Teixeira, N. A.
- Ohanian, V.** See Critchley, D. R.
- O'Hare, M. C.**
—; Clarke, N. J.; Cawston, T. E.; Harper, G. P. Cloning of a cDNA for porcine type I collagenase and expression in *E. coli*. 288s
- O'Kennedy, R.** See Egan, D. A.; KinSELLA, V. A.; Sheehan, H.
- Old, R. W.** See Sweeney, G. E.
- Olden, K.** See Aota, S.
- O'Leary, R.**
—; Gregory, B.; Carey, B.; McGlinchey, E.; O'Toole, A.; Clynes, M.; O'Connor, B.

- Factors influencing protease levels in animal cells in vitro. 26s
- Oliver, R. W. A.** See Green, B. N.
- Olivier, A. R.** See Evans, F. J.
- Omar, C.**
—; Kamlin, F.; Parry, G. C. N.; Rahman, K.; Malcolm, A. D. B.; Kama-lati, T.; Buluwela, L.
Mammalian expression constructs based on the Rous sarcoma virus LTR in high yield plasmids. 139s
- Opara, E.** See Bevan, S. J.
- O'Reilly, L.** See Varey, A. M.
- Orprayoon, P.**
—; Pitts, J. E.; Nugent, P.; Manta-founis, D.; Lawler, S. E.; Blundell, T. L.; Uusitalo, J.; Penttila, M.
Protein engineering of the surface loops of chymosin. 265s
- Ostrowsky, N.**
—; Garnier, N.
Quasi-elastic light scattering from an evanescent wave to probe particle/wall interactions. 500
- O'Sullivan, N. M.** See Mangan, D. J.
- Otey, C. A.** See Pavalko, F. M.
- O'Toole, A.** See O'Leary, R.
- Otto, E.** See Bennett, V.
- Owen, J. J. T.** See Conroy, L. A.
- Owen, R. W.** See Winslet, M. C.
- Owens, D.**
—; O'Donnell, L.; Collins, P.; Johnson, A.; Tomkin, G. H.
Beta-adrenergic effects on cellular cholesterologenesis and low density lipoprotein metabolism. 41s
- Owens, P. C. M.** See Rarity, J. G.
- Pacini, L.** See Spinedi, A.
- Packman, L. C.**
—; Hipps, D. S.
The structural domains in the E2 component of the pyruvate dehydrogenase multienzyme complex from *Bacillus stearothermophilus*. 917
- Pagani, R.** See Marinello, E.; Pizzichini, M.; Tabucchi, A.
—; Leoncini, R.; Terzuoli, L.; Chen, J.; Pizzichini, M.; Marinello, E.
DL-Allothreonine and L-threonine aldolase in rat liver. 346s
- Page, A.**
—; Warburton, M. J.; Chambers, T. J.; Hayman, A. R.
Purification and characterization of cysteine proteinases from human osteoclastomas. 286s
- Page, N.**
—; Savva, D.; Luke, G.; Simkiss, K.
Transfection of chick cells by non-retroviral DNA. 328s
- Pagel, C.** See Coulton, G.
- Pain, V. M.** See Joshi, B.
- Palleschi, G.**
—; Moscone, D.; Mascini, M.
Electrochemical biosensors for extracorporeal measurements. 5
- Pallett, K. E.** See Ashton, I. P.
- Palmer, A.** See Knecht, E.
- Palmer, S.** See Plevin, R.; Wakelam, M. J. O.
—; Plevin, R.; Wakelam, M. J. O.
Homologous desensitization of bombesin-stimulated Ins(1,4,5)P₃ production in Swiss 3T3 fibroblasts. 101s
- Pancholi, S.**
—; Barker, C. J.; Candy, D. J.; Gokuldas, M.; Kirk, C. J.
Effects of adipokinetic hormones on inositol phosphate metabolism in locust fat body. 104s
- Pande, S. V.** See Bhuiyan, A. K. M. J.
- Pandiella, A.**
—; Massague, J.
Transforming growth factor- α . 259
- Paoletti, S.**
—; Gamini, A.; Zanetti, F.
Conformational aspects of ionic polysaccharides: laser light scattering of aqueous solutions of hyaluronic acid and alginate. 494
- Paraskeva, C.** See Van der Stappen, J. W. J.
- Parish, D.** See Tezapsidis, N.
- Parker, A.**
New tools for biochemists: combined laser doppler micro-electrophoresis/photon correlation spectroscopy 486
- Parker, A. E.** See Wheeler, G. N.
- Parker, M. G.**
—; Fawell, S. E.; Danielian, P.; Arbuckle, N.
Role of ligand in estrogen-receptor function. 897
- Parker, P. J.** See Evans, F. J.
- Parry, D. A. D.** See Engel, J.
- Parry, G. C. N.** See Omar, C.
- Parry, J. B.** See Hodgkin, M.
- Parry-Billings, M.** See Bevan, S. J.
—; Leighton, B.; Dimitriadis, G. D.; Bond, J.; Newsholme, E. A.
The effect of catecholamines on the metabolism of glutamine by skeletal muscle of the rat. 130s
- Partridge, T.** See Coulton, G.
- Pascual, P.**
—; Martinez-Lara, E.; Toribio, F.; Lopez-Barea, J.; Barcena, J. A.
HPLC isoenzyme patterns of glutathione transferase from marine fishes with different levels of pollution. 302s
- Passi, A.** See Balduini, C.
- Patacchini, R.** See Maggi, C. A.
- Patel, B.** See Critchley, D. R.
- Patel, B. N.**
—; Boot-Handford, R. P.
Kidney levels of mRNA encoding S and B2 laminin and α 1(IV) collagen in diabetic rats fed an aldose reductase inhibitor. 367s
- Patkowski, A.**
—; Seils, J.; Eimer, W.; Dorfmueller, T.
Conformation of muscle proteins: a laser light-scattering study. 507
- Pavalko, F. M.**
—; Otey, C. A.; Simon, K. O.; Burridge, K.
 α -Actinin: a direct link between actin and integrins. 1065
- Pawlita, M.** See Sczakiel, G.
- Payne, J. W.** See Gliddon, A. E.
- Payne, R. H.**
—; Madhavankutty, K.; Avara, V.
Prediction of serum apolipoprotein B levels from total cholesterol and triacylglycerols, or from total heparin-precipitable lipoprotein. 211s
- Pazzani, C.**
—; Roberts, I.; Boulnois, G.
Capsule production in *Escherichia coli*: coordinate regulation of biosynthesis and export by environmental factors. 628
- Peak, M.** See Al-Habori, M.
- Pearson, J. P.** See Lynn, S.
- Pecora, R.** See Seils, J.
Dynamics of oligonucleotides and DNA restriction fragments. 498
- Peinado, J.** See Rodriguez-Ariza, A.
- Pelton, J. T.** See Huggins, J. P.
- Penhallow, J.** See Eggleton, P.
- Penttila, M.** See Lawler, S. E.; Orprayoon, P.; Pitts, J. E.; Quinn, D.
- Pereira, M. M. C.**
—; Dormer, R. L.; McPherson, M. A.
Characterization of anti-peptide CFTR antibodies. 247s
- Perkins, E. A.** See Jepras, R. I.
- Perry, H.** See Aulak, K. S.
- Perry, H. J.**
—; Harwood, J. L.
Lipid metabolism during seed development in oilseed rape (*Brassica napus* L. cv. Shiralee). 243s
- Persson, B.** See Jackson, J. B.
- Peschek, G. A.** See Nicholls, P.
- Petal, S.** See Unger, W. G.
- Peters, T. J.** See Banerjee, A. K.; Preedy, V. R.; Raja, K. B.; Simpson, K. J.; Simpson, R. J.
- Pethig, R.**
Dielectric-based biosensors. 21
- Peuchen, S.** See Chen, Y.
- Phillbert, D.** See Teutsch, G.
- Phillies, G. D. J.**
Mesoparticle diffusion in biopolymer and polymer solutions. 481
- Phillips, J. D.** See Kausar, S.; Ryder, H. J.
- Phillips, O. M.** See Maher, W. J.; Williams, D. C.
- Phillips, S. C.** See Turner, P. C.
—; Turner, P. C.
The mouse U7 small nuclear RNA gene promoter functions efficiently in *Xenopus* oocytes. 339s
Deletions downstream of the 3' box of the mouse U7 small nuclear RNA gene dramatically affect transcription. 342s
- Phipps, D. A.** See Graham, D. L. V.
- Pinches, S. A.** See Mynott, C. L.
- Pinder, J. C.**
Red cell membrane cytoskeleton and the control of membrane properties 1039
- Pitts, J. E.** See Lawler, S. E.; Orprayoon, P.; Quinn, D.
—; Mantafounis, D.
Engineering the pH profile of chymosin. 266s
—; Quinn, D.; Uusitalo, J.; Penttila, M.
Protein engineering of chymosin and expression in *Trichoderma reesei*. 663
- Pizzichini, M.** See Marinello, E.; Pagani, R.
—; Cinci, G.; Vannoni, D.; Porcelli, B.; Leoncini, R.; Pagani, R.
The influence of testosterone on phospholipid metabolism. 345s
- Plant, C. G.** See Smith, A. J.
- Plevin, R.** See Palmer, S.; Wakelam, M. J. O.
—; MacNulty, E. E.; Palmer, S.; Wakelam, M. J. O.
Differences in the coupling of ET-1 and LPA receptors in Ins(1,4,5)P₃ formation in rat-1 fibroblasts. 100s
- Pockley, A. G.**
—; Montgomery, P. C.
The effects of interleukin-5 on mitogenically stimulated rat spleen cells. 331s
- Pocock, A. E.**
—; Francis, M. J. O.; Smith, R.
Severe osteogenesis imperfecta: type 1 collagen abnormalities in 17 skin fibroblast cell lines. 382s
- Ponchaut, S.**
—; Draye, J. P.; Van Hoof, F.; Veitch, K.
Loss of hepatic cytochrome a_3 -during chronic valproate treatment: dissociation of proton pumping and electron transport in complex IV. 253s

- Poole, R. K.** See Bolgiano, B.
Pope, B. See Weeds, A. G.
Porcelli, B. See Pizzichini, M.
Portugal, J. See Ferrer, N.
Portwood, N. D.
 —; Clemens, M. J.; Taylor, K. W.
 Differential effect of Cocksackie B4 virus on murine pancreatic islet preproinsulin mRNA and glyceraldehyde-3-phosphate dehydrogenase mRNA. 398s
Possot, O. See Holland, I. B.
Postle, A. D. See Burdige, G. C.; Hunt, A. N.
Potter, B. V. L. See Challiss, R. A. J.
Potts, A. J. C. See Aulak, K. S.
Potts, J. L.
 —; Fisher, R. M.; Humphreys, S. M.; Coppack, S. W.; Gibbons, G. F.; Frayn, K. N.
 Chylomicrons are the preferred substrate for lipoprotein lipase in vivo. 314s
Poverini, R. See Scarino, M. L.
Powell, H. A. See McKee, R. A.
Powell, J. F.
 Molecular biological studies of monoamine oxidase: structure and function. 199
Powls, R. See Alam, A.; Stephen, A. G.
Poxon, V. See Winslet, M. C.; Wood, A. J.
Poyner, D. See Cooke, F.
Pratt, I. See Dempsey, M.
Preedy, V. R. See Banerjee, A. K.; Marway, J. S.; Siddiq, T.
 —; Edwards, P.; Peters, T. J.
 Ethanol-induced reductions in skeletal muscle protein synthesis: use of the inhibitors of alcohol and aldehyde dehydrogenase. 167s
 —; Garlick, P. J.
 Protein synthesis in the lungs of young rats in vivo and its nutritional modification. 166s
Preiss, J.
 —; Ball, K.; Smith-White, B.; Iglesias, A.; Kakefuda, G.; Li, L.
 Starch biosynthesis and its regulation. 539
Price, J. C.
 —; Griffin, W. G.; Griffin, M. C. A.
 Bridging flocculation of polystyrene latex by β -lactoglobulin: photon correlation spectroscopy studies. 508
Price, M. G. See Thornell, L. E.
Price, N. C. See Kelly, S. M.
Price, N. R.
 Enzymic factors in the resistance of stored-product pests to insecticides. 759
Pridham, J. B. See Chidwick, K.
Prime, S. See Game, S.
Provencher, S. W.
 Low-bias macroscopic analysis of polydispersity. 479
Pryme, I. See Hesketh, J.
Pryme, I. F. See Almaas, B.; Kirkeide, E. K.; Moss, R.; Vedeler, A.
Puertas, F. J. See Monsalve, E.
Pueyo, C. See Rodriguez-Ariza, A.
Pugh, C. E.
 —; Harwood, J. L.; Lewis, T.; Cromar-tie, T.; John, R. A.
 Synthesis of 5-aminolevulinic acid in pea (*Pisum sativum* L.) leaves. 319s
Puls, J. See Filho, E. X. F.
Pyle, D. L. See Harsa, S. H.
Pyle, L. See Lye, G. J.; Sirman, T.
Pyne, N. J.
 —; Shehnaz, D.; Rodger, I. W.
 Phorbol esters trigger the inactivation of the inhibitory guanine nucleotide-binding regulatory protein (G_i) in airway smooth muscle. 75s
Qu, J. See Leaver, H. A.
 —; Leaver, H. A.; Yap, P. L.; Wilson, N. H.
 Kinetics of calcium mobilization and inositol phosphate metabolism in endotoxin-stimulated HL-60 cells. 95s
Quinn, D. See Pitts, J. E.
 —; Pitts, J. E.; Mantaounis, D.; Lawler, S. E.; Uusitalo, J.; Penttila, M.; Strop, P.
 Modifying the substrate specificity of chymosin. 267s
Quinn, D. G. See McFadden, J. P.
Quiroga, C.
 —; Imperial, S.; Busquets, M.; Cortes, A.
 Comparison of some of the properties of the holoenzymes and apoenzymes of the molecular forms of chicken liver cytoplasmic aspartate aminotransferase. 74s
Radda, G. K. See Field, M. L.; Kemp, G. J.
 —; Dixon, R. M.; Wood, C. A.
 NMR studies of phospholipid metabolism and cell proliferation. 995
Radley, S. See Imray, C. H. E.; Winslet, M. C.
Rae, M. G. See Dutta-Roy, A. K.
Rahman, K. See Omar, C.
Raja, K. B. See Simpson, R. J.
 —; Simpson, R. J.; Peters, T. J.
 Ferric iron reduction and uptake by mouse duodenal mucosa. 316s
Ramsay, R. R. See Singer, T. P.
 —; Singer, T. P.
 The kinetic mechanisms of monoamine oxidases A and B. 219
Ramzan, M. A.
 —; Cookson, E. J.; Beynon, R. J.
 Limited proteolysis as a probe for protein folding. 296s
Rarity, J. See Jepras, R. I.
Rarity, J. G.
 —; Owens, P. C. M.; Atkinson, T.; Seabrook, R. N.; Carr, R. J. G.
 Light-scattering studies of protein association. 489
Rash, B. See Thomas, J. T.
Rausch, D. M. See Hecker, G.
Rawlings, N. D. See Barrett, A. J.
 —; Barrett, A. J.
 Potential metal ligands in the insulin superfamily of endopeptidases. 289s
Rawson, D. M. See Gaisford, W. C.
Rayner, D. A. See Hayes, N. V. L.
Reach, G. See Wilson, G. S.
Record, C. O. See Thompson, S.
Reed, J. See Reuber, T. L.
Reeder, A. P. See McBrien, N. A.
Rees, D. A. See Wheeler, G. N.
Rees, L. See Haggas, R. L.
Regan, C. See Elmore, M.
Reid, D. G. See Sweeney, P. J.
Reid, P. A. See Watts, C.
Reilly, D.
 —; Andreasen, P.; Duffy, M. J.
 Urokinase-type plasminogen activator and its inhibitor PAI-1 in breast cancer: studies at both protein and mRNA level. 44s
Ren, J. M. See Hultman, E.
Ren, Z. X. See Mayne, R.
Rennison, M. E. See Burgoyne, R. D.
Reuber, T. L.
 —; Reed, J.; Glazebrook, J.; Glucksmann, M. A.; Ahmann, D.; Marra, A.; Walker, G. C.
 Rhizobium meliloti exopolysaccharides: genetic analyses and symbiotic importance. 636
Reville, W. J.
 —; Meade, G. A.
 Adenosine triphosphatase (ATPase) activity of myofibrils prepared from pre-rigor and from rigor rat skeletal muscle. 38s
Rey, M. W. See Berka, R. M.
Rhee, S. G.
 —; Kim, H.; Suh, P. G.; Choi, W. C.
 Multiple forms of phosphoinositide-specific phospholipase C and different modes of activation. 337
Rhoads, R. E. See Joshi, B.
Rhodes, M. J. C.
 —; Spencer, A.; Hamill, J. D.
 Plant cell culture in the production of flavor compounds. 702
Ricart, C. A. See Clarkson, J.
Rice, J. E.
 —; Lindsay, J. G.
 Evidence for a protein X-like domain at the N-terminus of the E1 component of the mammalian 2-oxoglutarate dehydrogenase complex. 403s
Rich, P. R. See Bourne, R. M.; Cooper, C. E.; Moody, A. J.
 —; Madgwick, S. A.; Brown, S.; Von Jagow, G.; Brandt, U.
 MOA-stilbene: a new effector of the Q_i site of the chloroplast cytochrome b₆ complex. 263s
Richards, W. G. See Morris, G. M.
Richardson, D. J. See McEwan, A. G.
Richardson, J. H. See Lever, A. M. L.
Richardson, M. See Hatton, M. W. C.
Richardson, N. J. See Gaisford, W. C.
Richardson, P. J. See Batstone, F. R.; Druce, I. R.; James, S.; Siddiq, T.
 —; James, S.
 Immunoaffinity purification of cholinergic nerve terminals. 83
Richardson, S. C. B.
 —; Green, A. K.; Fisher, M. J.
 Phosphorylation-dephosphorylation of renal phenylalanine hydroxylase. 229s
Richmond, S.
 —; Xiang, J.; Brammer, M.; Campbell, I.
 Studies of presynaptic kainate and quisqualate effects on [Ca²⁺]_i and phosphoinositide metabolism. 148s
Ridley, R. G.
 Proteins of unusual sequence composition from the malarial parasite *Plasmodium falciparum*. 525
Riemer, D. See Weber, K.
Rindi, S. See Balduini, C.
Rittner, K. See Sczakiel, G.
 —; Heilbronn, R.; Kleinschmidt, J. A.; Oelze, I.; Sczakiel, G.
 Replication of the human immunodeficiency virus type 1 is inhibited by the adeno-associated virus replication gene. 438s
Rivett, A. J. See Djaballah, H.; Knecht, E.; Savory, P. J.
Rix, L. K.
 —; Brunotte, F.; Seymour, A. M. L.
 Energy status in the post myocardial infarcted rat heart. 210s
Robbins, P. W.
 Genetic regulation of asparagine-linked oligosaccharide synthesis. 642
Roberts, I. See Pazzani, C.

- Roberts, J. M.**
—; Kenton, P.; Johnson, P. M.
Growth factor-induced release of a glycosylphosphatidylinositol (GPI)-linked protein from HEP-2 carcinoma cells and human syncytiotrophoblast. 106s
- Roberts, S. G. E.**
—; McDonald, C. J.
Differential regulation of gene expression in mouse parotid glands in response to isoprenaline treatment. 118s
- Roberts, S. M.**
Chirality and its importance in drug development: a synthetic chemist's perspective. 446
- Robillard, G. T.** See Biessen, E. A. L.
- Robinson, G. A.**
Optical immunosensors. 18
- Robinson, J. M.** See Hartfield, P. J.
- Robinson, P.**
—; Newton, R. P.; Walton, T. J.; Smith, C. J.
Calmodulin from lucerne: its potential role in intracellular signal transduction. 190s
- Rodger, I. W.** See Pyne, N. J.
- Rodriguez-Ariza, A.**
—; Dorado, G.; Peinado, J.; Pueyo, C.; Lopez-Barea, J.
Biochemical effects of environmental pollution in fishes from the Spanish South-Atlantic littoral. 301s
- Rogers, A. T.**
—; Harrison, R.; Blaydes, J.; Barnes, J.; Lunt, G. G.
A potential motor neuron-specific monoclonal antibody (MN-1). 338s
- Rolle, P.** See Faris, F.
- Rolink, A.**
—; Kudo, A.; Melchers, F.
Long-term proliferating early pre-B-cell lines and clones with the potential to develop to surface immunoglobulin-positive, mitogen-responsive active B-cells in vitro and in vivo. 275
- Rollings, J. E.**
Use of on-line laser light-scattering photometry coupled to chromatographic separations for determination of biopolymer molecular mass, branching, size and shape distributions. 493
- Romero, F. J.** See Monsalve, E.
- Ronis, M. J. J.** See Winston, G. W.
- Rosbash, M.** See Zwiebel, L. J.
- Rosenbloom, J.** See Uitto, J.
- Rosqvist, R.**
—; Forsberg, A.; Wolf-Watz, H.
Microinjection of the Yersinia YopE cytotoxin in mammalian cells induces actin microfilament disruption. 1131
- Ross, H.** See Yiannakis, P. H.
- Rossi, F.** See Cassatella, M. A.
- Rothman, D. L.**
—; Shulman, R. G.; Shulman, G. I.
NMR studies of muscle glycogen synthesis in normal and non-insulin dependent diabetic subjects. 992
- Rotondo, D.** See Dutta-Roy, A. K.
- Rovero, P.** See Maggi, C. A.
- Rowe, J.** See Chopra, R.; Kelly, S. L.
- Rowell, F. J.**
Biological receptors in biosensors. 32
- Rubartelli, A.**
—; Sitia, R.
Interleukin β and thioredoxin are secreted through a novel pathway of secretion. 255
- Rubin, R. L.**
—; Burlingame, R. W.
Drug-induced autoimmunity: a disorder at the interface between metabolism and immunity. 153
- Ruch, J. V.** See Smith, A. J.
- Ruck, A.** See Iredale, P. A.
- Rudnick, G.** See Humphreys, C. J.
- Rumsby, M.** See McNulty, S.
- Ruse, M. J.**
—; Waring, R. H.
The S-oxidation of thioamides by rat liver microsomes. 233s
- Russell, G. J.** See Cummins, B.
- Rutberg, H.** See Allsop, P.
- Rutherford, A. J.**
—; Williams, D.; Bilton, R. F.
Isolation of menaquinone 7 from *Pseudomonas* N.C.I.B. 10590: a natural electron acceptor for steroid A-ring dehydrogenations. 64s
- Ryan, J.** See Heffernan, M.
- ; Mantle, T.; Costigan, D. C.
Comparison of type I insulin-like growth factor (IGF) receptor binding in ovine tissue and human placental membranes. 63s
- Ryan, J. P.**
—; Gray, W. R.
Elevation of volatile fatty acid levels and adjustment of acetate/propionate ratios during ruminal fermentation of various feedstuffs with the high strength yeast culture, *Yeast*¹⁰²⁶. 72s
- Ryder, H. J.**
—; Phillips, J. D.
Erythrocyte 2,3-DPG in normal volunteers, asthmatics and cigarette smokers. 407s
- Ryder, N. S.**
Squalene epoxidase as a target for the allylamines. 774
- Rydstrom, J.** See Jackson, J. B.
- Ryle, A. P.** See Hannah, S.
- Ryves, W. J.** See Evans, A. T.; Evans, F. J.
- Saedi, M. S.** See Lindstrom, J.
- Saeed, S. A.**
—; Boyde, T. R. C.
Separation of ferritin dimer, trimer and tetramer by preparative polyacrylamide gel electrophoresis and their identification by electron microscopy. 218s
- Lactate dehydrogenase isoenzymes from human heart: separation by preparative gel electrophoresis; and a crystalline preparation of isoenzyme 1. 219s
- Saermark, T.** See Wheeler-Jones, C. P. D.
- Saerndahl, E.**
—; Bokoch, G. M.; Spicher, K.; Stendahl, O.; Andersson, T.
G-proteins and the association of ligand/receptor complexes with the cytoskeleton in human neutrophils. 1127
- Safrany, S. T.** See Challiss, R. A. J.; Naahorski, S. R.
- Sahlín, K.**
Control of energetic processes in contracting human skeletal muscle. 353
- Saibil, H.** See Langmack, K.
- Saini, S.**
—; Turner, A. P. F.
Biosensors in organic phases. 28
- Salerno, J. C.**
Electron transfer in succinate:ubiquinone reductase and quinol:fumarate reductase. 599
- Salisbury, J. R.** See Marway, J. S.
- Salvesen, G.** See Nagase, H.
- Salvini, R.** See Balduini, C.
- Salzberg, B. M.** See Sattelle, D. B.
- Sanchez, J.** See Williams, M.
- Sarafian, T.** See Sontag, J. M.
- Saraste, M.**
—; Holm, L.; Lemieux, L.; Luebben, M.; Van der Oost, J.
The happy family of cytochrome oxidases. 608
- Sarkar, M.** See Schachter, H.
- Sattelle, D. B.** See Harding, S. E.
—; Obaid, A. L.; Salzberg, B. M.
Quasi-elastic laser light-scattering studies of size and dispersity of secretory vesicles and neurosecretosomes isolated from vertebrate neurohypophyses. 501
- Sauerborn, M.** See Von Eichel-Streiber, C.
- Saunders, D. H.** See Forrest, I. A.
- Savory, P. J.**
—; Rivett, A. J.
Catalytic subunits of the multicatalytic proteinase. 292s
- Savva, D.** See Page, N.; Tarnoky, A. L.
- Sayner, R.** See McNulty, S.
- Sayos, J.**
—; Centelles, J. J.; Mallol, J.; Canela, E. I.; Lluís, C.; Franco, R.
Adenosine (Ado) uptake in brush-border membrane vesicles from rat kidney (BBM). 323s
- Scally, C. M.**
—; Winder, F. G.
Deoxyribonuclease from *Pseudomonas maltophilia*. 40s
- Scarino, M. L.**
—; Poverini, R.; Di Lullo, G.; Bises, G.
Metallothionein gene expression in the intestinal cell: modulation of mRNA and protein synthesis by copper and zinc. 283s
- Schachter, H.**
—; Hull, E.; Sarkar, M.; Simpson, R. J.; Moritz, R. L.; Hoppener, J. W. M.; Dunn, R.
Molecular cloning of human and rabbit UDP-N-acetylglucosamine: α -3-D-mannoside β -1,2-N-acetylglucosaminyltransferase I. 645
- Schieven, G. L.** See Ledbetter, J. A.
- Schiffer, H. H.** See Heinemeyer, W.
- Schmandt, R.** See Mills, G. B.
- Schmidle, T.** See Winkler, H.
- Schoepfer, R.** See Lindstrom, J.
- Schofield, D.**
—; Bottiglieri, T.; Braganza, J. M.
Disturbed methionine metabolism in pancreatitis. 310s
- Schousboe, A.** See Dunlop, J.; Grieve, A.
- Schulthess, T.** See Engel, J.
- Schultz, G.** See Ervens, J.
- Schurr, J. M.**
—; Kim, U. S.; Song, L.; Fujimoto, B. S.
Dynamics and structures of DNA. 497
- Schwartz, J. H.**
Arachidonic acid metabolism: potential for diverse signalling within the same neuron. 387
- Scott, D. A.**
—; Somasundaram, M.; Skillen, A. W.
Detection of NADH via hydrogen peroxide at a platinum electrode using immobilized lactate dehydrogenase and lactate oxidase. 14s
- Scott, G. K.** See Tse, C. A.
- Scott, J. E.** See Balduini, C.; Williams, D. L.

- Proteoglycan: collagen interactions and corneal ultrastructure. 877
- Scott, P. G.**
Physical studies on the protein core of skin dermatan sulfate proteoglycan II (decorin). 377s
- Scully, C.** See Game, S.
- Scutt, A.** See Goldspink, G.
- Sczakiel, G.** See Rittner, K.
—; Rittner, K.; Homann, M.; Pawlita, M.
Replication of the human immunodeficiency virus type 1 is inhibited in human cells with antisense RNA expression. 437s
- Seabrook, R. N.** See Rarity, J. G.
- Seaman, W. E.** See Imboden, J. B.
- Seeley, H. F.** See Wali, F. A.
- Segal, A. W.**
Components of the microbicidal oxidase of phagocytes. 49
- Seifert, R.** See Ervens, J.
- Seils, J.** See Patkowski, A.
—; Pecora, R.
Photon correlation spectroscopy study of a 2311 bp relaxed circular DNA - applicability of Rouse-Zimm and wormlike chain models. 511
- Sellen, D. B.** See Burne, P. M.
- Sells, B. H.** See Larson, D. E.
- Serrano, M. A.** See Alonso de la Torre, S. R.
- Seymour, A. M. L.** See Field, M. L.; Rix, L. K.
- Shalloe, F.** See Casey, J.
- Sharma, E.**
—; Hollett, T.; Zajdel, M. E. B.; Blair, G. E.
The role of adenovirus oncogenes in down-regulation of major histocompatibility class I gene expression. 84s
- Sharma, P.** See Evans, A. T.; Evans, F. J.
- Sharpe, M. A.**
—; Cooper, C. E.; Wrigglesworth, J. M.
The effect of membrane potential on the protonophoric action of oleic acid. 257s
- Shaw, C.** See Aldalou, A. R.
- Sheehan, D.** See Casey, J.; Leahy, M.
- Sheehan, H.**
—; O'Kennedy, R.
Investigation of the stability of bovine heart creatine kinase. 66s
- Shehnaz, D.** See Pyne, N. J.
- Shellard, S. A.** See Dempke, W. C. M.
—; Fichtinger-Schepman, A. M. J.; Hosking, L. K.; Hill, B. T.
Differential modulation of cisplatin cytotoxicity by human ovarian carcinoma cell lines in vitro. 126s
- Shennan, K. I. J.** See Taylor, N. A.
- Shergill, J. K.**
—; Weiner, J. H.; Cammack, R.
Applications of pulsed EPR spectroscopy to the study of mitochondrial iron-sulfur clusters and Escherichia coli fumarate reductase. 256s
- Sherry, A. D.** See Sumegi, B.
- Sherwell, J.** See Winslet, M. C.
- Sheterline, P.**
—; Handel, S. H.; Hendry, K. A. K.
Reorganization and turnover of actin filament architectures in cells. 1120
- Shewry, P. R.**
—; Hull, G.; Tatham, A. S.
Sulfur-poor prolamins of barley, wheat and rye. 528
- Shirazi-Beechey, S. P.** See Mynott, C. L.
- Shukla, N.** See Stansby, G.
- Shulman, G. I.** See Rothman, D. L.
- Shulman, R. G.** See Rothman, D. L.
- Shuttleworth, C. A.** See Kielty, C. M.
- Siddiq, T.**
—; Richardson, P. J.; Hashim, I. A.; Marway, J. S.; Preedy, V. R.
The effects of acutely administered anesthesia on various plasma analytes, insulin and growth hormone concentrations and rates of cardiac and skeletal muscle protein synthesis in vivo in the rat. 196s
—; Richardson, P. J.; Preedy, V. R.
An investigation into the early effects of aortic constriction on the rates of protein synthesis in the rat heart 197s
- Sieghart, W.**
Heterogeneity of GABA_A-benzodiazepine receptors. 129
- Sienna, N.** See Larson, D. E.
- Silverman, R. B.**
The use of mechanism-based inactivators to probe the mechanism of monoamine oxidase. 201
- Sim, E.** See Coroneos, E.
Drug-induced immune complex disease. 164
- Simeon, A.** See Heinemeyer, W.
- Simitsek, P. D.** See Watts, C.
- Simkiss, K.** See Page, N.
- Simon, K. O.** See Pavalko, F. M.
- Simpson, A.** See Slingsby, C.
- Simpson, E.** See Varey, A. M.
- Simpson, K. J.**
—; Venkatesan, S.; Peters, T. J.; Martin, A.; Brindley, D. N.
The effect of oleate and spermine on the subcellular distribution of phosphatidate phosphohydrolase (PAH, EC 3.1.3.4.). 321s
- Simpson, R. J.** See Raja, K. B.; Schachter, H.
—; Raja, K. B.; Halliwell, B.; Evans, P. J.; Aruoma, O. I.; Konijn, A. M.; Peters, T. J.
Iron speciation in hypotransferrinemic mouse serum. 317s
- Singer, T. P.** See Ramsay, R. R.
—; Ramsay, R. R.
The interaction of monoamine oxidases with tertiary amines. 211
- Sirman, T.**
—; Pyle, L.; Grandison, A. S.
Extraction of organic acids using a supported liquid membrane. 274s
- Sitia, R.** See Rubartelli, A.
- Skillen, A. W.** See Scott, D. A.
- Skynner, M.** See Coulton, G.
- Slingsby, C.**
—; Simpson, A.; Ferszt, A.; Bateman, O. A.; Nalini, V.
Molecular interactions in the eye lens. 853
- Slivka, S. R.** See Insel, P. A.
- Sloan, R.**
—; Elliott, R. J.
A kinetic assay for the isoenzymes of malate dehydrogenase. 54s
- Smeekens, S.**
—; Angenent, G.; Ebskamp, M.; Weisbeek, P.
Molecular biology of fructan accumulation in plants. 565
- Smith, A.** See Heffernan, M.; McIntosh, N.
- Smith, A. J.** See Aulak, K. S.
—; Tobias, R. S.; Plant, C. G.; Browne, R. M.; Lesot, H.; Ruch, J. V.
Morphogenetic proteins from dentine extracellular matrix and cell-matrix interactions. 187s
- Smith, A. M.**
—; Martin, C.; Denyer, K.
The pathway of starch synthesis in developing pea embryos. 547
- Smith, C. J.** See Cooke, C. J.; Robinsson, P.
- Smith, E.** See Young, R. D.
- Smith, E. B.**
Interactions of lipoproteins with vascular intima in atherosclerosis. 235
- Smith, J. M. A.**
The generation of heavy atom derivatives by site-directed mutagenesis: can successful changes be rationalized? 221s
Bacterioferritin: structural modeling and molecular symmetry of Escherichia coli BFR. 337s
- Smith, R.** See Pocock, A. E.
- Smith, R. D.** See Edmonds, C. G.
—; Brown, K. D.
Characterization and regulation of angiotensin receptors in a rat intestinal epithelial cell line. 440s
- Smith-White, B.** See Preiss, J.
- Smyth, M.** See Elmore, M.
—; O'Connor, B.; O'Cuinn, G.
Subcellular distribution of dipeptidyl aminopeptidase activity against Lys-Ala-NH-Mec in guinea pig brain. 37s
- Soederlund, K.** See Hultman, E.
- Solum, N. O.** See Aakhus, A. M.
- Somasundaram, M.** See Scott, D. A.
- Song, L.** See Schurr, J. M.
- Sontag, J. M.**
—; Sarafian, T.; Bader, M. F.; Aunis, D.
Characterization of cytoplasmic proteins essential for exocytosis in chromaffin cells. 1090
- Soory, M.**
—; Gower, D. B.
The influence of inflammatory mediators on the effects of phenytoin on steroidogenesis by human gingival fibroblasts (HGF). 92s
- Sousa, A.** See Teixeira, N. A.
- Specks, U.** See Aumailley, M.
- Spencer, A.** See Rhodes, M. J. C.
- Spicher, K.** See Saerndahl, E.
- Spinedi, A.**
—; Pacini, L.; Limatola, C.; Luly, P.
Phosphoinositide turnover in human neuroblastoma cells (SK-N-BE). 103s
- Spurway, T. D.**
—; Ashley, R.
Evidence for a pH-dependent anion channel in sheep heart mitochondria. 254s
- Srere, P. A.** See Sumegi, B.
- Staniforth, A. D.** See Djaballah, H.
- Stansby, G.**
—; Shukla, N.; Fuller, B.; Hamilton, G.
Characterization of microvascular endothelial cells derived from human fat. 168s
- Stansfield, I.** See Akhmaloka
- Stapleton, P. P.** See McLoughlin, D. M.
- Steele, L.** See Meats, J. E.
- Stefani, L.** See Davidson, J.
- Stefani, L. A. J.** See Martin, S. A. M.
- Stendahl, O.** See Saerndahl, E.
- Stephen, A. G.**
—; Powls, R.; Beynon, R. J.
The relationship between thaumatin, a sweet protein and thaumatococain, a cysteine protease, from the arils of *Thaumatococcus daniellii*. 297s
- Stephen, R. I.** See McIntosh, N.

- Steven, F. S.**
—; Griffin, M. M.; Bulleid, N. J.; Brown, B. S.
Exchange of inhibitors and proteases at tumor cell surfaces. 427s
—; Talbot, I. C.
Demonstration of an isoenzymic form of a cell surface protease expressed in human colonic tumor cells but not in normal colonic cells 236s
- Stevenson, M. P.** See Mock, K. K.
- Stewart, A. D.** See Forrest, I. A.
- Stone, A.** See Game, S.
- Stoolman, L. M.** See Lowe, J. B.
- Stovicek, R.** See Cook, A.
- Strain, A.** See Coleman, R.
- Strange, P. G.** See Castro, S.; Chazot, P. L.; Hollis, C. M.; Murray, D. C. W.; Newman-Tancredi, A.
- Strolin Benedetti, M.** See Dostert, P.
- Strop, P.** See Quinn, D.
- Strosberg, A. D.** See Couraud, P. O.
- Strupinski, K.** See Lincoln, R. A.
- Stutchfield, J.** See Cockcroft, S.
- Sugden, P. H.** See Bogoyevitch, M. A.; Fuller, S. J.
- Suh, P. G.** See Rhee, S. G.
- Sumegi, B.**
—; Sherry, A. D.; Malloy, C. R.; Evans, C.; Srere, P. A.
Is there tight channelling in the tri-carboxylic acid cycle metabolon? 1002
- Suzuki, K.** See Nagase, H.
- Swart, P.** See Van der Merwe, K. J.
- Sweeney, G. E.** See Matharu, P. J.
—; Old, R. W.
Detection by PCR of thyroid hormone receptor transcripts in *Xenopus* oocytes and eggs. 203s
- Sweeney, P. J.**
—; Walker, J. M.; Reid, D. G.; MacLachlan, L. K.; Waltho, J. P.
Preparation of phenylalanine-deuterated, and totally nitrogen-15-enriched, calmodulins from *Trypanosoma brucei*, and its application in drug binding studies. 430s
- Sweeney, S. T.** See Knecht, E.
- Taberner, A.** See Vicario, C.
- Tabucchi, A.** See Marinello, E.
—; Pagani, R.; Terzuoli, L.; Leoncini, R.; Guerranti, R.
The determination and biological role of 4'-carbamoyl pyridoxal 5'-phosphate. 344s
- Taher, M.** See Moshtaghi, A. A.
- Tait, S.** See Larkin, S.
- Takigawa, M.** See Tuckwell, D. S.
- Talbot, I. C.** See Steven, F. S.
- Tan, K. C. B.** See Cooper, M. B.
- Tappia, P. S.** See Wood, A. J.
- Tarnoky, A. L.**
—; Nicholson, B. H.; Savva, D.
Nature of the HABA binding to human serum albumin. 333s
- Tatham, A. S.** See Shewry, P. R.
- Tavare, J. M.** See Ellis, L.
- Taylor, C. W.** See Nunn, D. L.
- Taylor, D. J.** See Kemp, G. J.
- Taylor, K. W.** See Portwood, N. D.
- Taylor, N. A.**
—; Shennan, K. I. J.; Docherty, K.
Inducible expression of mutant human proinsulins in a mouse pituitary cell line controlled by the mouse metallotionein promoter. 202s
- Teahon, K.**
—; Venkatesan, S.
Fatty acid profile of plasma lipids from patients with Crohn's disease before and after 4 weeks on elemental diet ("O 28" or "Vivonex"). 322s
- Teichert, U.** See Heinemeyer, W.
- Teixeira, N. A.**
—; Filva, G.; Bronze, E.; Sousa, A.; O'Grady, J. E.
Decidualization-associated protein is an anti-proteinase and inhibits lymphocyte proliferation. 300s
—; O'Grady, J. E.
A comparison of the rat anti-proteinases alphamacroretroprotein and decidualization associated protein. 299s
- Tempest, D. W.**
Integration of catabolism and anabolism in microbial systems. 972
- Ter Meer, H. U.**
Light scattering as a tool for characterizing biopolymer solutions and gels. 484
- Terzuoli, L.** See Pagani, R.; Tabucchi, A.
- Teutsch, G.**
—; Gaillard-Moguilewsky, M.; Lemoine, G.; Nique, F.; Philibert, D.
Design of ligands for the glucocorticoid and progesterin receptors. 901
- Tezapsidis, N.**
—; Parish, D.
Specificity of a protease from ovine adrenal medulla chromaffin granules. 249s
- Thevenot, D. R.** See Wilson, G. S.
- Thomas, D. L.** See Nicholas, P. C.
- Thomas, G. M. H.** See Cockcroft, S.
- Thomas, J. T.** See Brass, A.
—; Cresswell, C. J.; Rash, B.; Hoyland, J.; Freemont, A. J.; Grant, M. E.; Boot-Handford, R. P.
The human collagen X gene: complete primary sequence and re-expression in osteoarthritis. 804
- Thomas, S.** See Evans, F. J.
- Thompson, H. M.** See Haggas, R. L.
- Thompson, J. S.** See Archer, B. U.; Baker, P. G.; Chadwick, R. J.
- Thompson, M.**
—; Hastings, M.; Morgan, P. J.
Stimulation of inositol phosphate turnover and calcium influx in ovine pars tuberalis (PT) cells: effect of melatonin. 93s
- Thompson, S.**
—; Record, C. O.; Turner, G. A.
Studies of lotus-extracted haptoglobin in inflammatory bowel disease. 264s
- Thomson, A. J.**
—; Breton, J.; George, S. J.; Butt, J. N.; Armstrong, F. A.; Hatchikian, E. C.
Iron-sulfur clusters in electron transfer, catalysis and control. 594
- Thomson, F.** See Mitchell, R.
- Thomson, F. J.** See MacEwan, D. J.
—; Mitchell, R.; Johnson, M. S.; MacEwan, D. J.
Differential activation of phospholipase A₂ by protein kinase C in pituitary cells. 117s
- Thorne, S. D.**
—; Lowe, A. G.
Inactivation of the nucleoside transporter of the human erythrocyte by dimethyl(2-hydroxy-5-nitrobenzyl)sulfonium bromide. 418s
- Thornell, L. E.**
—; Price, M. G.
The cytoskeleton in muscle cells in relation to function. 1116
- Thorniley, M.** See Faris, F.
- Timpl, R.** See Aumailley, M.
- Tipton, K. F.** See Balsa, D.; Bhaird, N. N. A.; Carr, E. P.
- Tkac, A.** See Cook, A.
- Tobias, R. S.** See Smith, A. J.
- Toffa, S.**
—; Cheetham, K.; Fuller, B.; Gower, J.; Green, C.
A study of the distribution of desferrioxamine in the isolated perfused rabbit kidney. 217s
- Tomalin, G.** See Chadwick, R. J.
- Tomkin, G. H.** See Moore, U. M.; Owens, D.
- Toribio, F.** See Pascual, P.
- Towner, P.** See Goodyer, I. D.
- Townsend, R. M.**
—; Garlick, P. B.
NMR visibility of ATP, PCr and inorganic phosphate in the rat heart: effects of perfusion conditions. 209s
- Trayer, I. P.** See Levine, B. A.
- Treloar, P.** See Vadgama, P.
- Triffitt, J. T.** See Virdi, A. S.
- Tse, C. A.**
—; Scott, G. K.
Growth-related proteinase activity in a recently-established human tumor cell culture. 285s
- Tsu, T. T.** See Ledbetter, J. A.
- Tucker, G. T.**
A clinical pharmacologist's perspective. 460
- Tuckwell, D. S.**
—; Allen, M. D.; Takigawa, M.; Humphries, M. J.
Novel methods for the study of cell-collagen interactions. 370s
- Tuite, M. F.** See Akhmaloka; Colthurst, D. R.; Hartley, A. D.
- Tuohy, M. G.** See Filho, E. X. F.
- Turay, L.** See Goldspink, G.
- Turner, A. J.** See Howell, S.
—; Widdows, K. B.; Kirkness, E. F.
Probing the GABA_A receptor with antibodies. 124
- Turner, A. P. F.** See Saini, S.
- Turner, G. A.** See Thompson, S.
- Turner, M. D.** See Burgoyne, R. D.
- Turner, P. C.** See Hu, Y.; Phillips, S. C.
—; Phillips, S. C.
Unusual compartmentalization of mouse U7 small nuclear transcripts in *Xenopus* oocytes. 341s
- Udseth, H. R.** See Edmonds, C. G.
- Uitto, J.**
—; Christiano, A. M.; Kahari, V. M.; Bashir, M. M.; Rosenbloom, J.
Molecular biology and pathology of human elastin. 824
- Unger, W. G.**
—; Boulton, M. E.; Petal, S.; Goldsmith, J. P.
Catalase activity in cultured human retinal pigment epithelial cells. 443s
- Unitt, J. F.** See Field, M. L.
- Unzeta, M.** See Balsa, D.
- Urban, J. P. G.** See Maciewicz, R. A.
- Usitalo, J.** See Lawler, S. E.; Orpryaon, P.; Pitts, J. E.; Quinn, D.
- Vadgama, P.**
—; Desai, M.; Koochaki, Z.; Treloar, P.
Problems of clinical data interpretation. 11
- Valerio, P.** See Marinello, E.
- Vallance, S. J.**
—; Whetton, A. D.
Control of proliferation by myeloid growth factors. 307

- Van der Merwe, K. J.**
—; De Kock, S. S.; Swart, P.; Fourie, L.
The application of mass spectrometry in the study of labile natural products. 432s
- Van der Oost, J.** See Saraste, M.
- Van der Rest, M.**
—; Aubert-Foucher, E.; Dublet, B.; Eichenberger, D.; Font, B.; Goldschmidt, D.
Structure and function of the fibril-associated collagens. 820
- Van der Schoot, P.**
—; Odijk, T.
Light scattering from liquid crystalline solutions of rod-like macromolecules. 503
- Van der Stappen, J. W. J.**
—; Paraskeva, C.; Williams, A. C.; Hague, A.; Maciewicz, R. A.
Relationship between the secretion of cysteine proteinases and their inhibitors and malignant potential. 362s
- Van der Zee, R.** See Van Eden, W.
- Van Eden, W.**
—; Hogervorst, E. J. M.; Wauben, M. H. M.; Van der Zee, R.; Boog, C. J. P.
Heat-shock proteins as antigens in autoimmunity. 171
- Van Hoof, F.** See Ponchaut, S.
- Vannoni, D.** See Pizzichini, M.
- Vardy, P.** See Claes, P.
- Varey, A. M.**
—; Hutchings, P.; O'Reilly, L.; Husse, T.; Waldmann, H.; Simpson, E.; Cooke, A.
The development of insulin-dependent diabetes mellitus in non-obese diabetic mice: the role of CD4⁺ and CD8⁺ T cells. 187
- Vedeler, A.** See Almaas, B.; Kirkeide, E. K.; Moss, R.
- ; Pryme, I. F.; Hesketh, J. E.
Compartmentalization of polysomes into free, cytoskeletal-bound and membrane-bound populations. 1108
- Veitch, K.** See Ponchaut, S.
- ; Hombroecx, A.; Hue, L.
Ischemia/anoxia-induced increases in cardiac mitochondrial respiration: changes in complex I. 261s
- Venkatesan, S.** See Simpson, K. J.; Teahon, K.
- Verhaert, R. M. D.** See Hilhorst, R.
- Vestal, M. L.** See Allen, M. H.
- Vicario, C.**
—; Bolanos, J. P.; Medina, J. M.
The fate of lactate in isolated cells from early neonatal rat brain. Comparison with glucose and 3-hydroxybutyrate. 141s
- ; Taberero, A.; Medina, J. M.
Regulation of lipogenesis from lactate in isolated cells from early neonatal rat brain. 140s
- Vidal, Y.**
—; Neuzil, E.
Reaction of N-terminal valine dipeptides with two ninhydrin derivatives. 234s
- Vincent, A.**
Autoimmunity to acetylcholine receptors in myasthenia gravis. 180
- Vintermyr, O. K.**
—; Dao, K. K.; Doeskeland, S. O.
Restricted efflux of the type II isoform of cyclic AMP-dependent protein kinase in permeabilized rat hepatocytes. 1161
- Virdi, A. S.**
—; Willis, A. C.; Hauschka, P. V.; Triffitt, J. T.
Primary amino acid sequence of rabbit osteocalcin. 373s
- ; Willis, A. C.; Triffitt, J. T.
Partial characterization of rat bone lysozyme. 374s
- Visser, A. J. W. G.** See Hilhorst, R.
- Von Eichel-Streiber, C.**
—; Warfolomeow, I.; Knautz, D.; Sauerborn, M.; Hadding, U.
Morphological changes in adherent cells induced by Clostridium difficile toxins. 1154
- Von Jagow, G.** See Rich, P. R.
- Voss, K. L.** See Lynch, M. A.
- Wagner, S. A.** See Corfield, A. P.
- Waite, J. J.** See Insel, P. A.
- Waites, G.** See Critchley, D. R.
- Wakelam, M. J. O.** See Cook, S. J.; Milligan, G.; Palmer, S.; Plevin, R.
- ; Cook, S. J.; Currie, S.; Palmer, S.; Plevin, R.
Regulation of the hydrolysis of phosphatidylcholine in Swiss 3T3 cells. 321
- Wakeling, A. E.**
—; Bowler, J.
Development of novel estrogen-receptor antagonists. 899
- Waldmann, H.** See Varey, A. M.
- Waldo, G. L.** See Harden, T. K.
- Waldron, K. W.** See Baydoun, E. A. H.
- Wali, F. A.**
—; Makinde, V.
Effects of pancuronium and vecuronium on creatine kinase in rat isolated heart, liver, kidney and diaphragm. 336s
- ; Makinde, V.; Mahoney, A.; Seeley, H. F.
Effects of pancuronium and vecuronium on plasma levels of lactate dehydrogenase and creatine kinase in patients undergoing gynaecological surgery. 423s
- Walker, B.** See Abu Shanab, A. A.; Aldalou, A. R.
- Walker, C. H.** See Haggas, R. L.; McCaffery, A. R.
- ; Brealey, C. J.; Mackness, M. I.; Johnston, G.
Toxicity of pesticides to birds; the enzymic factor. 741
- Walker, D.** See Lees, T.
- Walker, G. C.** See Reuber, T. L.
- Walker, J. M.** See Lincoln, R. A.; Sweeney, P. J.
- Wall, M.** See Doherty, D.
- Walley, G. J.** See Dunn, J. F.
- Walls, J.** See Bennett, S. E.
- Walsh, D. M.**
—; Kennedy, S.; Blanchflower, W. J.; Kennedy, D. G.
The effect of vitamin E and/or selenium depletion on tissue peroxidation and peroxidizability in ruminant cattle. 61s
- Waltho, J. P.** See Sweeney, P. J.
- Walton, P. W.**
—; Butler, M. E.; O'Flaherty, M. R.
Piezoelectric-based biosensors. 44
- Walton, T. J.** See Cooke, C. J.; Robinson, P.
- ; Langridge, J. I.; Khan, J. A.; Evans, A. M.; Brenton, A. G.; Ghosh, D.; Harris, F. M.; Newton, R. P.
Analysis of kinetic parameters of cyclic nucleotide phosphodiesterase systems by fast atom bombardment tandem mass spectrometry. 397s
- Wang, K. W.**
—; Grail, B. M.; Davies, J. I.
The effect of energy status on phosphatidylinositol turnover in rat brain. 156s
- Waqar, M. A.** See Iqbal, M. P.; Javed, M. H.
- Warburton, M. J.** See Page, A.
- Ward, J. M.**
—; Martyn, J.
Alterations in neuromuscular function following thermal injury. 191s
- Ward, M.** See Berka, R. M.
- Ward, S.** See Djaballah, H.
- Warfolomeow, I.** See Von Eichel-Streiber, C.
- Waring, R. H.** See Ruse, M. J.
- Warne, P. J.** See Archer, B. U.
- Wasil, M.**
—; Harvey, W.; Murphy, C. T.; Hopps, R. M.
Biosynthesis of platelet activating factor (PAF) by an osteosarcoma cell line (UMR 106). 184s
- Watkins, P. J. F.**
—; Jardine, I.; Zhou, J. X. G.
Mass spectrometry software for biochemical analysis in electrospray and fast atom bombardment modes. 957
- Watson, P. F.** See Kelly, S. L.
- Watson, R. B.** See Holmes, D. F.
- Watsuji, T.** See Gatti, A.
- Watts, C.**
—; Reid, P. A.; Simitsek, P. D.; West, M. A.
Antigen processing and class II MHC-restricted antigen presentation in B-lymphocytes. 263
- Wauben, M. H. M.** See Van Eden, W.
- Waugh, R.** See Hu, Y.
- Way, M.** See Weeds, A. G.
- Webb, M. R.** See Eccleston, J. F.
- Weber, K.**
—; Riemer, D.; Dodemont, H.
Aspects of the evolution of the lamin/intermediate filament protein family: a current analysis of vertebrate intermediate filament proteins. 1021
- Weeds, A. G.**
—; Gooch, J.; Hawkins, M.; Pope, B.; Way, M.
Role of actin-binding protein in cytoskeletal dynamics. 1016
- Wegener, G.** See Blau, C.; Krause, U.
- Weiner, J. H.** See Shergill, J. K.
- Weisbeek, P.** See Smeeckens, S.
- Weiss, B. A.** See Insel, P. A.
- West, D. W.** See Clegg, R. A.
- West, M. A.** See Watts, C.
- Wharton, C. W.** See Chittock, R. S.; Meldrum, R. A.; White, A. J.
- Whatmore, A. J.**
—; Dickson, A. J.
Differential responsiveness of receptor tyrosinases to inhibitors: analysis of insulin and epidermal growth factor receptor sensitivity in cultured rat hepatocytes. 420s
- Wheatley, M.** See Howl, J.
- Wheeler, G. N.**
—; Buxton, R. S.; Parker, A. E.; Arneimann, J.; Rees, D. A.; King, I. A.; Magee, A. I.
Desmosomal cadherins I, II and III: novel members of the cadherin superfamily. 1060
- Wheeler-Jones, C. P. D.**
—; Saermark, T.; Kakkar, V. V.; Authi, K. S.
Activation of human platelets by mastoparan. 114s
- Whelan, R. D. H.** See McClean, S.
- ; Hosking, L. K.; Hill, B. T.
A lack of Adriamycin (ADR) resistance in Chinese hamster ovary

- (CHO) cells overexpressing P-glyco= protein (Pgp) following in vitro exposure to fractionated x-irradiation. 125s
- Whetton, A. D.** See Vallance, S. J.
- Whittaker, E. M.** See Nimmo, A. J.
- White, A. J.**
—; Drabble, K.; Wharton, C. W.
Fourier transform infrared spectroscopy of $\{^{13}\text{C}=\text{O}\}$ trans-cinnamoyl- and $\{^{13}\text{C}=\text{O}\}$ hydrocinnamoyl- α -chymotrypsins. 159s
- White, A. W.**
A patent lawyer's perspective. 469
- White, I. N. H.** See Cahill, A.
- White, I. R.** See Clarkson, J.
- Whiting, P.** See Lindstrom, J.
- Whittaker, S. P.** See Kieley, C. M.
- Wickramasinghe, Y.** See Faris, F.
- Widdows, K. B.** See Turner, A. J.
- Wigham, C.** See Hodson, S.
- Wilcock, G. K.** See Jamieson, G. A.
- Wilde, C. J.** See Burgoyne, R. D.
- Wilderspin, A. F.** See Gaskin, D. J. H.
- Wilkins, M.** See Chazot, P. L.
- Wilkinson, A. E.**
—; Higgo, J. J. W.; Jones, M. N.
Application of approach to equilibrium analytical ultracentrifugation (Ar=chibald method) to the determination of molecular weights of humic substances. 414s
- Wilkinson, J. M.** See Aakhus, A. M.
- Wilkinson, Y.**
—; Coughlan, M. F.; Colleran, E.
Protein upgrading of wheat straw by fungal fermentation. 68s
- Wilks, H. M.** See Clarke, A. R.
- Willcocks, A. L.** See Challiss, R. A. J.
- Williams, A. C.** See Van der Stappen, J. W. J.
- Williams, C. H.** See Ennis, M. P.
- Williams, D.** See Coleman, R.; Rutherford, A. J.
- Williams, D. C.** See Maher, W. J.; Moynagh, P. N.
- ; Phillips, O. M.
Probing the platelet plasma-membrane 5-hydroxytryptamine transporter. 112
- Williams, D. L.**
—; Cribb, A.; Scott, J. E.
Proteoglycan-collagen interactions in chronic superficial keratitis in the dog. 353s
- Williams, M.**
—; Sanchez, J.; Harwood, J. L.
Lipid metabolism in tissue cultures of olive (*Olea europaea*). 268s
- Williams, R. M.**
—; Jones, R.
Binding of zona pellucida glycoproteins to sperm proacrosin. 412s
- Williams, S. P.** See Brindle, K. M.
- Williamson, F. B.** See Grant, D.
- Willis, A. C.** See Viridi, A. S.
- Wilson, C.** See Aulak, K. S.
- Wilson, G. S.**
—; Reach, G.; Thevenot, D. R.
Biosensors for intracorporeal measurements: problems and strategies. 9
- Wilson, K.** See Campbell, D. B.
- Wilson, L. J.** See Berka, R. M.
- Wilson, N. H.** See Leaver, H. A.; Qu, J.
- Wilton, J.** See Coleman, R.
- Winder, F. G.** See Scally, C. M.
- Winkler, H.**
—; Schmidle, T.; Fischer-Colbrrie, R.; Kapelari, S.
Membrane antigens of endocrine, large dense-core and small synaptic vesicles. 79
- Winslet, M.** See Davis, A. E.
- Winslet, M. C.**
—; Hall, C.; Hendrickse, C.; Lawson, N.; Neoptolemos, J.
Serum phospholipase A₂ and free fatty acid levels in acute pancreatitis. 225s
- ; Poxon, V.; Davies, A.; Owen, R. W.; Keighley, M. R. B.
Chronological variation in fecal and ileal bile acid excretion. 224s
- ; Poxon, V.; Imray, C.; Owen, R. W.; Keighley, M. R. B.
The influence of total colectomy on secondary bile acid metabolism. 226s
- ; Poxon, V.; Owen, R. W.; Davies, A.; Keighley, M. R. B.
The influence of fecal exclusion on the colonic bile acid profile in Crohn's colitis. 223s
- ; Sherwell, J.; Radley, S.; Keighley, M. R. B.
The acute phase protein response in Crohn's colitis. 222s
- Winston, G. W.**
—; Kirchin, M. A.; Ronis, M. J. J.
Microsomal activation of benzo[a]pyrene by Alligator mississippiensis: mechanisms, mutagenicity and induction. 746
- Wojcikiewicz, R. J. H.** See Lambert, D. G.; Naahorski, S. R.
- ; Nahorski, S. R.
Prolonged stimulation of SH-SY5Y cells with carbachol inhibits inositol 1,4,5-trisphosphate (InsP₃) binding and InsP₃-induced calcium mobilization. 97s
- Wolf, D. H.** See Heinemeyer, W.
- Wolf-Watz, H.** See Rosqvist, R.
- Wong, D.** See Young, R. D.
- Wonnacott, S.**
Neuronal nicotinic receptors: functional correlates of ligand binding sites. 121
- Wood, A. J.**
—; Malik, Z. A.; Tappia, P. S.; Poxon, V.; Grace, R.; Neoptolemos, J.; Burdett, K.; Connock, M. J.
Isolation of microperoxisomes from human colonic mucosa. 425s
- Wood, C.** See Critchley, D. R.
- Wood, C. A.** See Radda, G. K.
- Wood, J. M.**
—; Horton, A. A.
A possible role for eicosanoids in ATP-induced plasma membrane bleb formation in isolated hepatocytes. 230s
- Woods, A.** See Hayes, N. V. L.
- Wotton, S. F.** See Duance, V. C.
- ; Duance, V. C.
Type IX collagen in synovial fluids. 375s
- Wrigglesworth, J. M.** See Cooper, C. E.; Sharpe, M. A.
The active site structure of cytochrome oxidase: modeling by "catalytic homology". 258s
Introducing bioenergetics in the first year. 967
- Wright, A.** See Imray, C. H. E.
- Wright, D. W.** See Mayne, R.
- Wright, J. K.** See Clark, I. M.
- Wyatt, P. J.**
Combined differential light scattering with various liquid chromatography separation techniques. 485
- Xiang, J.** See Richmond, S.
- Xuereb, J. H.** See James, S.
- Yamada, K. M.** See Aota, S.; Mould, A. P.
- Yap, P. L.** See Leaver, H. A.; Qu, J.
- Yasmin, R.**
—; Naru, A. M.
Biochemical analysis of Papaver somniferum (opium poppy). 436s
- Yeaman, S. J.**
Identification and analysis of the major autoantigens in primary biliary cirrhosis. 196
- Yiannakis, P. H.**
—; Ross, H.; Brown, S.
Studies on the rat liver benzpyrene binding protein. 182s
- Yoshida, Y.**
—; Aoyama, Y.
Sterol 14 α -demethylase and its inhibition: structural considerations on interaction of azole antifungal agents with lanosterol 14 α -demethylase (P-450_{14DM}) of yeast. 778
- Yoshioka, M.** See Youdin, M. B. H.
- Youdin, M. B. H.**
—; Harshak, N.; Yoshioka, M.; Araki, H.; Mukai, Y.; Gotto, G.
Novel substrates and products of amine oxidase-catalyzed reactions. 224
- Young, P.** See Kirkham, D. M.
- Young, R. D.**
—; Karwatowski, W.; Smith, E.; Grey, R. H.; Wong, D.
Ultrastructural characterization of normal and pathological human scleral proteoglycans. 350s
- Yue, K.** See Holland, I. B.
- Yusof, R.**
—; Blair, G. E.
The effect of interferons on the expression of major histocompatibility class I genes in adenovirus-transformed cells. 83s
- Zajdel, M. E. B.** See Sharma, E.
- Zanetti, F.** See Paoletti, S.
- Zangrando, D.** See Jamieson, A. M.
- Zaror, C. A.** See Harsa, S. H.
- Zhang, N.** See Mills, G. B.
- Zhou, J. X. G.** See Watkins, P. J. F.
- Zijenah, L. S.** See Morton, L. F.
- Zirwer, D.** See Gast, K.
- Zuberi, H. S.** See Iqbal, M. P.
- Zwiebel, L. J.**
—; Hardin, P. E.; Hall, J. C.; Rosbash, M.
Circadian oscillations in protein and mRNA levels of the period gene of *Drosophila melanogaster*. 533

■ *Biochemical Society Transactions* (ISSN 0300-5127) is published by Portland Press Ltd on behalf of the Biochemical Society. Each issue contains the lectures, colloquia and communications presented at one of the Biochemical Society's meetings held in various parts of the U.K. and Ireland and, occasionally, in conjunction with other Societies, abroad. Submitted primary research papers are not published. Authors of lectures and colloquium contributions at Society meetings will receive instructions on the format of their article prior to the meeting; instructions for authors intending to present communications at Society meetings appear in the Society's membership journal, *The Biochemist*, and occasionally in this journal.

■ For information about the advantages of membership of the Biochemical Society, contact the Executive Secretary, The Biochemical Society, 59 Portland Place, London W1N 3AJ, U.K. (telephone 071-580 5530).

■ Editorial and publishing office: *Biochemical Society Transactions*, 59 Portland Place, London W1N 3AJ, U.K. (telephone 071-637 5873; facsimile 071-323 1136).

Subscription rates

■ Subscriptions department: Portland Press, P.O. Box 32, Commerce Way, Colchester CO2 8HP, U.K. (telephone 0206-46351; facsimile 0206-549331). *Biochemical Society Transactions* is published in February, May, August and November of each year. Subscription rates for volume 19, parts 1-4 (1991):

	North America	Rest of world
Volume 19	\$195.00	£105.00
Single issues	\$33.00	£18.00

Subscribers to the *Biochemical Journal* may take a joint subscription to that journal and to *Biochemical Society Transactions*, saving \$25 (North America) or £15 (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. Airmail delivery is available at extra cost. Back issues are available. Subscribers in Japan should send orders to Kinokuniya Company Ltd, Journal Department, P.O. Box 55, Chitose, Tokyo 156.

■ 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 licences issued by the Copyright Licensing Agency. Inquiries concerning reproduction outside those terms should be sent to the publishers at their London address.

■ Copies of articles in this journal may be made in the U.S.A. for personal or internal use, or for the personal or internal use of specific clients, on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center Inc. (P.O. Box 765, Schenectady, NY 12301, U.S.A.) for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. The Copyright Clearance Center code for this journal is 0300-5127/91/\$02.00 + 0.00.

■ 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.

■ Second-class postage paid at Rahway, NJ, U.S.A.

■ U.S. Postmaster: send address changes to *Biochemical Society Transactions*, c/o Mercury Airfreight International Ltd, 2323 Randolph Avenue, Avenel, NJ 07001, U.S.A.

■ Typeset by Unicus Graphics Ltd, Horsham, and printed in Great Britain by Whitstable Litho Printers Ltd, Kent.

- Aakhus, A. M.** 1133
Agius, L. 1125
Agutter, P. S. 1094
Akiyama, S. K. 361S, 830
Albon, J. 349S
Al-Habori, M. 1125
Allen, M. D. 370S
Allen, M. H. 954
Almás, B. 1135
Alonso de la Torre, S. T. 409S
Anand, R. 1150
Anderson, S. M. L. 388S, 389S
Andersson, T. 1127
Angal, S. 371S, 372S
Aota, S. 830
Aplin, J. D. 381S
Arbuckle, N. 897
Archer, B. U. 404S
Arnemann, J. 1060
Ashton, B. A. 378S
Askari, J. A. 361S
Aubert-Foucher, E. 820
Aumailley, M. 843
Aunis, D. 1090
Ayad, S. 351S, 379S
- Bacon, E.** 431S
Bader, M.-F. 1090
Bailey, A. J. 349S
Baines, A. J. 1042
Baker, P. G. 405S
Balduini, C. 354S
Banner, M. 433S
Barinaga, C. J. 943
Barnes, M. J. 439S
Bashir, M. M. 824
Bateman, O. A. 853
Beck, K. 839
Bayley, P. M. 1023
Behzad, F. 381S
Belkin, A. M. 1072
Bennett, V. 1034
Berger, L. C. 1099
Bergin, S. 372S
Beri, R. 441S
Berry, M. 352S
Beynon, L. 922
Biggart, J. D. 387S
Bilton, R. F. 426S
Birch, N. J. 408S, 411S, 422S
Bishop, P. N. 351S
- Bjarnason, A.** 922
Bock, E. 1076
Bokoch, G. M. 1127
Bolgiano, B. 976
Boon, J. J. 935
Boot-Handford, R. P. 365S, 366S, 367S, 368S, 369S, 804
Boulton, M. E. 443S
Bowler, J. 899
Brass, A. 365S, 405S
Bray, C. M. 360S
Brenton, A. G. 397S
Brewton, R. G. 868
Brierley, V. H. 379S
Brindle, K. M. 985, 997
Brosnan, M. J. 1010
Brown, B. S. 400S, 427S
Brown, K. D. 440S
Bullied, N. J. 427S
Burdett, K. 425S
Burgoyne, R. D. 1085
Burns, S. 402S
Burridge, K. 1065
Butterworth, H. C. 366S
Buxton, R. S. 1060
- Campbell, J. A.** 387S
Canfield, A. E. 368S
Carden, M. J. 1147
Caro-Paton, T. 409S
Carstairs, J. R. 357S
Chadwick, R. J. 406S
Challiss, R. A. J. 888
Chandra, R. 441S, 442S
Chapman, J. R. 940
Chauhan, U. P. S. 442S
Cheresh, D. A. 835
Chopra, R. 371S, 372S
Christiano, A. M. 824
Clamp, J. R. 352S
Clegg, J. S. 986
Clemens, M. J. 398S
Comisarow, M. B. 922
Commandeur, J. M. 935
Connock, M. J. 425S
Conrad, G. W. 871
Cook, A. 426S
Cooke, C. J. 359S
Corfield, A. P. 352S
Cöster, L. 866
Cottrell, J. S. 948
Crawford, N. 1048, 1129
Cresswell, C. J. 804
- Cribb, A.** 353S
Critchley, A. J. 417S
Critchley, D. R. 1028
Cunliffe, C. J. 812
- Danielian, P.** 897
Dao, K. K. 1161
Davey, M. 948
David, G. 816
Davie, R. J. 411S, 422S
Davies, H. C. 976
Davies, S. E. C. 997
de Barry, J. 431S
de Kock, S. S. 432S
de Luca, G. 354S
Dickson, A. J. 420S
Dixon, R. M. 995
Dixon, T. W. 839
Dodemont, H. 1021
D'Odorico, A. 426S
Doherty, D. J. 434S
Døskeland, S. O. 1161, 1163
Dourish, C. T. 913
Downing, S. J. 356S
Duance, V. C. 349S, 375S, 376S
Dublet, B. 820
Duncan, G. 1148
Dunn, J. F. 421S
Dutta-Roy, A. K. 358S
Dutton, G. S. 922
- Easty, D. L.** 349S, 352S
Edbury, S. M. 411S
Edmonds, C. G. 943
Eggleton, P. 1048, 1129
Eichenberger, D. 820
Elenius, K. 1069
Elliott, R. J. 387S, 388S, 389S
Engel, J. 839
Evans, A. M. 397S
Evans, C. 1002
- Fauske, B.** 1163
Fawell, S. E. 897
Ferguson, S. J. 982
Ferszt, A. 853
Flaskos, J. 1140
Flatmark, T. 1163
Font, B. 820
Forsberg, Å. 1131
Fourie, L. 432S
- Francis, M. J. O.** 382S
Franklin, M. 416S
Franklin, T. J. 812
Freeman, M. S. 422S
Freemont, A. J. 804
French, J. 355S
Frid, M. G. 1072
Fuchs, E. 1112
Funderburgh, J. L. 871
Funderburgh, M. L. 871
- Gaillard-Moguilewsky, M.** 901
Gallagher, R. T. 940
Ghosh, D. 397S
Giachetti, A. 909
Gilmore, A. 1028
Girard, C. 431S
Glazier, A. P. 1140
Glukhova, M. A. 1072
Goh, D. C. L. 363S
Goldschmidt, D. 820
Goldsmith, J. P. 443S
Gombos, G. 431S
Gooch, J. 1016
Goodacre, J. A. 386S
Goodyer, I. D. 419S
Gordon-Weeks, P. R. 1080
Grace, R. 425S
Grant, D. 390S, 391S, 392S, 393S, 394S, 395S
Grant, M. E. 365S, 368S, 369S, 379S, 383S, 384S, 385S, 803, 804
Green, B. N. 929
Green, S. 894
Gregory, R. P. F. 399S
Grey, R. H. 350S
Griffin, M. M. 427S
Grindstaff, D. J. 954
Guggenheim, J. 849
Guiliani, S. 909
Gulab, P. 386S
Gurudutta, G. U. 442S
- Haavik, J.** 1163
Hadding, U. 1154
Hague, A. 362S
Hales, N. J. 812
Hall, A. C. 396S
Halow, J. M. 1010
Hammer, J. L. 410S
Handel, S. E. 1085

- Handel, S. H. 1120
Hargreaves, A. J. 1140, 1143
Harris, F. M. 397S
Harrison, G. P. 963
Harsa, S. H. 413S
Haslem, J. 433S
Hatton, M. W. C. 435S
Hauschka, P. V. 373S
Hawkins, M. 1016
Hayes, D. J. 419S
Hayes, N. V. L. 1042
Heffron, J. J. A. 355S
Heilbronn, R. 438S
Hemmings, F. J. 411S
Hemmings, L. 1028
Henderson, G. E. 364S
Hendry K. A. K. 1120
Hesketh, J. E. 101S, 1103, 1108, 1135
Heydeman, M. T. 401S
Higgo, J. J. W. 414S
Hill, G. B. 812
Hill, K. J. 416S
Hippis, D. S. 917
Hobbs, R. N. 378S
Hodson, S. 849
Hollingsworth, M. 356S
Holmes, D. F. 808
Homann, M. 437S
Horváth, A. R. 1150
Houghton, J. A. 434S
Hoyland, J. 804
Hudson, M. J. 415S
Humphries, M. J. 361S, 370S, 380S, 439S, 803
Hunter, I. 839
- Iles, R. A. 402S
Ingwall, J. S. 1006
Inki, P. 1069
Iversen, L. L. 913
Iversen, S. D. 913
- Jackson, J. B. 976
Jackson, P. 1028
Jain, V. K. 442S
Jalkanen, M. 1069
Jardine, I. 957
Jeffries, T. E. 349S
Johnson, A. 402S
Johnson, P. 410S
Johnstone, D. 812
Jones, C. E. 378S
- Jones, C. J. P. 381S
Jones, M. N. 414S, 415S, 416S
Jones, R. 412S
- Kadler, K. E. 365S, 808
Kähäri, V.-M. 824
Kaila, D. 849
Karwatowski, W. S. S. 349S, 350S
Kaszuba, M. 416S
Kausar, S. 408S
Kellie, S. 1150
Khan, J. A. 397S
Kielty, C. M. 383S, 384S, 385S
King, I. A. 1060
Kirjavainen, J. 1069
Kirkeeide, E.-K. 1136
Kiss, Z. 1150
Kleinschmidt, J. A. 438S
Knautz, D. 1154
Knight, C. G. 439S
Koklitis, P. A. 371S, 372S
Kordeli, E. 1034
Koretsky, A. P. 1010
Koteliansky, V. E. 1072
Kunimoto, M. 1034
- Lam, Z. 922
Lambert, D. G. 424S
Lambert, S. 1034
Langmack, K. 858
Langridge, J. I. 397S
Larson, D. E. 1099
Lemoine, G. 901
Leppä, S. 1069
Lever, A. M. L. 963
Lewis, R. A. 883
Lincoln, R. A. 428S, 429S
Lindsay, J. G. 403S
Livesley, M. A. 360S
Lomax, J. A. 935
Long, W. F. 390S, 391S, 392S, 393S, 394S, 395S
Loo, J. A. 943
Lowe, A. G. 417S, 418S
Lynn, S. 386S
- McBrien, N. A. 861
McCulloch, I. Y. 439S
McGregor, A. 1028
McIlwrath, A. 356S
- McLean, W. G. 1140, 1143
McLeod, D. 351S
Maciewicz, R. A. 362S, 396S
Maclachlan, L. K. 430S
Magee, A. I. 1060
Maggi, C. A. 909
Maghaddam, H. O. 861
Mahoney, A. 423S
Makarem, R. 380S
Makinde, V. 423S
Malik, Z. A. 425S
Malloy, C. R. 1002
Mann, M. 940
Mann, M. M. 871
Marcantonio, J. M. 1148
Martin, S. R. 1023
Mason, R. M. 363S, 364S
Mayne, R. 868
Medina, J. M. 409S
Middleton, S. 386S
Millest, A. J. 812
Milton, A. S. 358S
Mock, K. K. 948
Moffat, C. F. 391S, 392S, 393S, 394S
Morgan, A. 1085
Morris, W. B. 812
Morrison, J. F. B. 357S
Morton, L. F. 439S
Moss, R. 1138
Mould, A. P. 361S
Moules, S. 861
Mullins, F. H. 1143
Murdoch, A. D. 366S, 368S, 369S
Myerscough, N. 352S
- Nagai, T. 830
Nahorski, S. R. 424S, 888
Nalini, V. 853
Naru, A. M. 436S
Nash, J. A. B. 1147
Nelson, R. W. 954
Nelson, W. J. 1055
Neoptolemos, J. 425S
Newton, R. P. 359S, 397S
Nimmo, A. J. 357S
Nique, F. 901
- O'Connell, J. 371S
Oelze, I. 438S
- Ogorzalek Loo, R. R. 943
Ohanian, V. 1028
Olden, K. 830
Oliver, R. W. A. 929
Otey, C. A. 1065
Otto, E. 1034
- Packman, L. C. 917
Paraskeva, C. 362S
Parker, A. E. 1060
Parker, M. G. 897
Parry, D. A. D. 839
Passi, A. 354S
Patacchini, R. 909
Patel, B. 1028
Patel, B. N. 367S
Pavalko, F. M. 1065
Pawlita, M. 437S
Peak, M. 1125
Pearson, J. P. 386S
Penhallow, J. 1129
Petal, S. 443S
Philibert, D. 901
Phillips, J. D. 407S, 408S
Pinder, J. C. 1039
Pocock, A. E. 382S
Poole, R. K. 976
Pope, B. 1016
Portwood, N. D. 398S
Potter, B. V. L. 888
Poxon, V. 425S
Price, M. G. 1116
Pryme, I. F. 101S, 1108, 1135, 1136, 1138
Pyle, D. L. 413S
- Rae, M. G. 358S
Radda, G. K. 995
Rash, B. 804
Rayner, D. A. 1042
Reeder, A. P. 861
Rees, D. A. 1060
Reid, D. G. 430S
Ren, Z. X. 868
Rennison, M. E. 1085
Rice, J. E. 403S
Richardson, J. H. 963
Richardson, M. 435S
Riemer, D. 1021
Rindi, S. 354S
Rittner, K. 437S, 438S
Rosenbloom, J. 824
Rosqvist, R. 1131

Rothman, D. L. 992
 Rotondo, D. 358S
 Rovero, P. 909
 Rowe, J. 372S
 Ryder, H. J. 407S

Safrany, S.T. 888
 Saibil, H. 858
 Salvini, R. 354S
 Sarafian, T. 1090
 Särndahl, E. 1127
 Sauerborn, M. 1154
 Schulthess, T. 839
 Scott, J. E. 353S, 354S, 877
 Scott, P. G. 377S
 Sczakiel, G. 437S, 438S
 Seeley, H. F. 423S
 Sells, B. H. 1099
 Serrano, M. A. 409S
 Sherry, A. D. 1002
 Sheterline, P. 1120
 Shulman, G. I. 992
 Shulman, R. G. 992
 Shuttleworth, C. A. 383S, 384S, 385S
 Sienna, N. 1099
 Simon, K. O. 1065
 Simpson, A. 853
 Slingsby, C. 853
 Smith, C. J. 359S
 Smith, E. 350S
 Smith, R. 382S
 Smith, R. D. 440S, 943

Solum, N. O. 1133
 Sontag, J.-M. 1090
 Specks, U. 843
 Spicher, K. 1127
 Srere, P. A. 1002
 Stendahl, O. 1127
 Steven, F. S. 427S
 Stevenson, M. P. 948
 Stovicek, R. 426S
 Strupinski, K. 428S, 429S
 Sumegi, B. 1002
 Swart, P. 432S
 Sweeney, P. J. 430S

Takigawa, M. 370S
 Tappia, P. S. 425S
 Taylor, K. W. 398S
 Tempest, D. W. 972
 Teutsch, G. 901
 Tkac, A. 426S
 Thomas, J. T. 365S, 804
 Thompson, J. S. 404S, 405S, 406S
 Thorne, S. D. 418S
 Thornell, L.-E. 1116
 Timpl, R. 843
 Tomalin, G. 406S
 Towner, P. 419S
 Triffitt, J. T. 373S, 374S
 Tuckwell, D. S. 370S
 Turner, M. D. 1085

Udseth, H. R. 943
 Uitto, J. 824

Unger, W. G. 443S
 Urban, J. P. G. 396S
 van der Merwe, K. J. 432S
 van der Rest, M. 820
 van der Stappen, J. W. J. 362S
 Vedeler, A. 1108, 1135, 1136, 1138
 Vestal, M. L. 954
 Vintermyr, O. K. 1161
 Virdi, A. S. 373S, 374S
 von Eichel-Streiber, C. 1154

Waite, G. 1028
 Wakeling, A. E. 899
 Wali, F. A. 423S
 Walker, J. M. 428S, 429S, 430S
 Walley, G. J. 421S
 Waltho, J. P. 430S
 Walton, T. J. 359S, 397S
 Warfolomeow, I. 1154
 Warne, P. J. 404S
 Watkins, P. J. F. 957
 Watson, R. B. 808
 Way, M. 1016
 Weber, K. 1021
 Weeds, A. G. 1016
 Whatmore, A. J. 420S
 Wheeler, G. N. 1060
 Whitaker, E. M. 357S

Whittaker, S. P. 384S
 Wigham, C. 849
 Wilde, C. J. 1085
 Wilkinson, A. E. 414S
 Wilkinson, J. M. 1133
 Williams, A. C. 362S
 Williams, D. L. 353S
 Williams, R. M. 412S
 Williams, S.-P. 997
 Williamson, F. B. 390S, 391S, 392S, 393S, 394S, 395S
 Willis, A. C. 373S, 374S
 Wojcikiewicz, R. J. H. 424S
 Wolf-Watz, H. 1131
 Wong, D. 350S
 Wood, A. J. 425S
 Wood, C. 1028
 Wood, C. A. 995
 Woods, A. 1042
 Wotton, S. F. 375S, 376S
 Wrigglesworth, J. M. 967
 Wright, D. W. 868

Yamada, K. M. 361S, 830
 Yasmin, R. 436S
 Young, R. D. 350S

Zaror, C. A. 413S
 Zhou, J. X. G. 957
 Zijenah, L. S. 439S