

A

Aleksandrov, L.A. 996
 Alkon, D.L. 1033
 Allsop, D. 1082
 Anwar, Z. 1111
 Archer, Z.A. 1068
 Ashe, K.H. 1087
 Austen, B.M. 1091, 1111
 Autio, K.J. 1162
 Awayn, N.H. 996

B

Baig, S. 1129
 Balakrishnan, L. 1008
 Balliano, G. 1202
 Bapna, A. 1008
 Barry, J.D. 986
 Basso, C. 1003
 Bastard, J.P. 1073
 Béréziat, V. 1073
 Berriman, M. 986
 Betts, V. 1087
 Biessels, G.J. 1041
 Blandin, G. 986
 Böhme, U. 986
 Bond, P.J. 910, 916
 Boumann, H.A. 1146
 Boyd, D.D. 1135
 Brand, M.D. 897
 Bunday, R.A. 1131

C

Caler, E. 986
 Callinan, L. 1137
 Cancellotti, E. 1094
 Capeau, J. 1073
 Carman, G.M. 1150
 Carney, J. 905
 Caron, M. 1073
 Carr, A.J. 962
 Carrington, M. 986
 Carrington, S. 931
 Cha, S.-H. 1063
 Clayton, J.C. 913
 Cleary, J.P. 1087
 Coleman, D.C. 1210
 Coppack, S.W. 1049
 Coulson, D.T.R. 1096
 Coussons, P.J. 1129
 Cove, J.H. 1000
 Cowart, L.A. 1166
 Craddock, C.P. 1016
 Cramer, W.A. 921
 Cuthbertson, J. 910

D

Dai, Y. 1063
 Dalla Nora, E. 1053
 Daum, G. 1174
 de Kroon, A.I.P.M. 1146
 Deol, S.S. 916
 Dickson, R.C. 1170
 Di Cola, A. 1024
 Doig, A.J. 1113

E

East, J.M. 905

Eckman, C.B. 1101
 Eckman, E.A. 1101
 Eidenberger, A. 1197
 El-Agnaf, O.M.A. 1082, 1106,
 1111
 El-Sayed, N. 986
 Elvin, M. 949

F

Fadeeva, J.V. 1087
 Fanutti, C. 1129
 Ford, R.C. 931, 996
 Freeman, N. 931
 Friebe, A. 1119
 Frigerio, L. 1016
 Fullwood, N.J. 1082
 Fyfe, P.K. 924

G

Gadsby, D.C. 1003
 Garbarino, J. 1182
 German, M.J. 1082
 Gibson, G. 1111
 Gillies, S. 972
 Ginger, M.L. 975
 Grant, R. 1129
 Gray, S.L. 1053
 Greenberg, M.L. 1158
 Grottesi, A. 916
 Günther, S. 977

H

Haider, S. 916
 Hall, A. 891
 Hannun, Y.A. 1166
 Hapala, I. 1206
 Hartwell, J. 945
 Harvey, J. 1029
 He, Q. 953
 Head, B.P. 1131
 Heintzen, C. 949
 Helfrich-Förster, C. 957
 Herman, M. 972
 Hertz-Fowler, C. 986
 Hiltunen, J.K. 1162
 Holland, I.B. 990
 Hooper, N.M. 1123
 Hu, Z. 1063
 Hughes, E. 913
 Hunte, C. 938

I

Insel, P.A. 1131
 Irvine, G.B. 1096, 1106
 Irving, A.J. 1029
 Isbister, A. 1111

J

Jenewein, S. 990
 Johnston, J.A. 1096
 Jolliffe, N.A. 1016
 Jones, M.R. 924
 Jones, N. 986
 Jumpertz, T. 990

K

Kamis, A.B. 996

Kappelle, L.J. 1041
 Karpe, F. 1045
 Kastaniotis, A.J. 1162
 Kerr, I.D. 1000
 Kersten, S. 1059
 Kitmitto, A. 1113
 Klobučníková, V. 1206
 Klostermann, E. 1024
 Klyubin, I. 1087
 Koesling, D. 1119
 Kohút, P. 1206
 Kurisu, G. 921
 Kursu, V.A.S. 1162

L

Lane, M.D. 1063
 Lang, C. 1178
 Lang, S. 1197
 Lange, A. 1119
 Lascols, O. 1073
 Lee, A.G. 905
 Lester, R.L. 1170
 Liu, K. 1170
 Liu, W.W. 1096
 Liu, Y. 953
 Lythgoe, K. 986

M

Mackrill, J.J. 1137
 Madine, J. 1113
 Magré, J. 1073
 Manson, J. 1094
 Marcello, L. 986
 Marius, P. 905
 Martin, K.L. 983
 Maulet, Y. 1137
 Mazáňová, K. 1206
 McCarthy, T.V. 1137
 McDonnell, C. 931
 McMillan, P.J. 977
 Mense, M. 1003
 Mercer, J.G. 1068
 Mergia, E. 1119
 Michels, P.A.M. 972
 Micolod, D. 1186
 Middleton, D.A. 913, 1113
 Mokranjac, D. 1019
 Moran, G.P. 1210
 Morrison, L.J. 986
 Müller, S. 977
 Mullershausen, F. 1119
 Murphy, S. 1096

N

Nair, R.R. 1135
 Nairn, A.C. 1003
 Nelson, T.J. 1033
 Nes, W.D. 1189
 Neupert, W. 1019
 Nimmo, H.G. 943

O

Okubo, F. 1162
 Oliaro-Bosso, S. 1202
 O'Malley, D. 1029
 Opperdoes, F.R. 967

Oswald, C. 990

P

Paleologou, K.E. 1106
 Palmer, T.M. 1126
 Parsons, R.B. 1091
 Pasrija, R. 1219
 Passmore, A.P. 1096
 Patel, H.H. 1131
 Patey, S.J. 1116
 Pinjon, E. 1210
 Podlisny, M.B. 1087
 Popplewell, J. 931
 Powl, A.M. 905
 Prasad, R. 1219
 Prasad, T. 1219
 Price-Lloyd, N. 949

R

Read, A.F. 986
 Reiner, S. 1186
 Renaud, H. 986
 Reynolds, E.D. 1000
 Rigden, D.J. 972
 Riordan, J.R. 996
 Robinson, C. 1024
 Ronan, G. 931
 Rosenberg, M.F. 996
 Roth, D.M. 1131
 Rowan, M.J. 1087
 Ruckenstein, C. 1197
 Rudenko, G. 981
 Russwurm, M. 1119

S

Sands, W.A. 1126
 Sands, Z.A. 916
 Sansom, M.S.P. 910, 916
 Scaldaferrri, M. 1202
 Schmitt, L. 990
 Schneiter, R. 1186
 Schulz-Gasch, T. 1202
 Schweizer, L.M. 1154
 Schweizer, M. 1154
 Selkoe, D.J. 1087
 Shahi, S. 1008
 Shankar, G.M. 1087
 Shanley, L.J. 1029
 Shenton, M. 943
 Sidera, C. 1111
 Sidhaye, A. 1063
 Silver, P.M. 1215
 Smith, T.K. 983
 Strachan, M.W.J. 1037
 Sturley, S.L. 1182
 Sullivan, D.J. 1210
 Sullivan, S. 943
 Sumanasekera, C. 1170
 Swaney, J.S. 1131

T

Tabner, B.J. 1082
 Tamaj, T.K. 962
 Tan, G.D. 1045
 Taramino, S. 1202
 Tielens, A.G.M. 967
 Todd, S.A. 1096

Townsend, M. 1087
Trayhurn, P. 1078
Turnbull, J.E. 1116
Turnowsky, F. 1197

V

van Hellemond, J.J. 967
van Veen, H.W. 1008
Vavassori, S. 1154
Veen, M. 1178
Velamakanni, S. 1008

Venter, H. 1008
Vergani, P. 1003
Vidal-Puig, A.J. 1053
Vigouroux, C. 1073
Viola, F. 1202
Voelker, D.R. 1141
von Heijne, G. 1012

W

Wagner, A. 1174
Wagner, C. 1119

Wallace, L.J.M. 977
Walsh, D.M. 1087
Wang, K. 1154
Watt, N.T. 1123
White, S.H. 1012
White, T.C. 1215
Whitmore, D. 962
Wiseman, F. 1094
Woebking, B. 1008
Wolfgang, M. 1063
Wood, I.S. 1078

Y

Yan, J. 921
Yates, E.A. 1116
Yoshikawa, S. 934

Z

Zaitseva, J. 990
Zhang, H. 921
Zhang, X. 1170
Zhong, Q. 1158

- A**
 A β catabolism, 1101
 acetyl-CoA carboxylase (ACC), 1063, 1162
 actin, 891
 acyl chain composition, 1146
 Adan, 1111
 adenylate kinase, 975
 adipocyte, 1049
 adipokine, 1078
 adipose tissue, 1045, 1049, 1073, 1078
 aggregation, 1113
 agouti-related peptide, 1068
 allylamine, 1197
 alternating lever cyclic ratio, 1087
 Alzheimer's dementia, 1037
 Alzheimer's disease (AD), 1033, 1041, 1087, 1096, 1101, 1116
 amphotericin B, 1206
 amyloid, 1082, 1106
 amyloid- β , 1091
 β -amyloid, 1033, 1111
 amyloid precursor protein (APP), 1096, 1116
 amyloid β -protein, 1087
 anaerobiosis, 1186
 angiotensin-like protein (ANGPTL), 1059
 anionic phospholipid, 1158
 antifungal activity, 1206
 antigenic variation, 981, 986
 antiretroviral therapy (ART), 1073
 apicoplast, 977
Arabidopsis, 945
Arabidopsis thaliana, 943
 ATP binding and hydrolysis, 1003
 ATP-binding cassette (ABC), 996
 ATP-binding cassette protein (ABC protein), 1000, 1003
 ATP-binding cassette transporter (ABC transporter), 990, 1008
 ATP-hydrolysis, 990
 autophagy, 972
 axoneme, 975
 azole, 1210
- B**
 BACE1 (β -secretase 1), 1116
 bacterial channel, 905
 biosynthetic pathway, 1178
 bovine heart cytochrome c oxidase, 934
 brain aging, 1041
 brain-derived neurotrophic factor (BDNF), 1068
 BRI gene, 1111
- C**
 C75, 1063
 calcium channel, 1137
 cAMP, 1126
 cancer, 1135
Candida albicans, 1215, 1219
Candida dubliniensis, 1210
 carbon allocation, 943
 carboxylate, 1008
 cardiolipin (CL), 938, 1158
 caveola, 1131
 C2 domain, 1141
 cell wall biogenesis, 1158
 cerulenin, 1091
- cGMP-response, 1119
 chaperone, 1019
 chloroplast, 1024
 cholesterol, 1033, 1096, 1186
 circadian clock, 945, 949, 962
 circadian control, 943
 circadian rhythm, 957
 circular dichroism (CD), 913, 1113
 citric acid cycle, 967
 clock genes, 957
 clock neurons, 957
 CO₂ fixation, 945
 cognitive dysfunction, 1041
 cognitive enhancer, 1029
 cognitive function, 1037
 COP9 signalosome (CSN), 953
 co-regulation, 1178
 crassulacean acid metabolism, 945
 Creutzfeldt-Jacob disease (CJD), 1094
 crystallization, 996
 CTP, 1154
 cystic fibrosis transmembrane conductance regulator (CFTR), 996, 1003
 cytochrome *b₆f* complex, 921
 cytokine, 1078
 cytokine receptor, 1126
 cytosol-to-vacuole transport (CVT), 972
- D**
 database searching, 972
 deacylation, 1146
 dense vesicle, 1016
 desferrioxamine mesylate (DFX), 1137
 detergent, 910, 924
 dimer, 1091
Drosophila, 962
Drosophila melanogaster, 957
 drug resistance, 1219
 dual-polarization interferometry, 931
- E**
 ECM22, 1215
 electron microscopy (EM), 1113
 electrospray ionization tandem MS (ESI-MS/MS), 1146
 endoplasmic reticulum, 1016
 endothelial cell (EC), 1126
 endothelin-converting enzyme, 1101
 energy balance, 1053
 energy balance system, 1068
 energy metabolism, 967, 975
 2-enoyl-thioester reductase, 1162
 Ensure, 1068
 entrainment, 949
 enzyme model, 1202
 enzyme redesign, 1189
 epidemiology, 1210
 ergosterol, 1178, 1189, 1219
 ergosterol synthesis, 1197
 erythropoietin (EPO), 1129
 euglycaemia, 1037
 expression cloning strategy, 1135
- F**
 FAD-binding site, 1197
 farnesylation, 1091
 fasting-induced adipose factor, 1059
- fatty acid, 1045, 1182
 fatty acid biosynthesis, 967
 fatty acid synthase (FAS), 1063
 fibril, 1106
 fibrillogenesis, 1116
 fibril morphology, 1113
 fluconazole, 1210
 fluorescence, 905
 fluorescence spectroscopy, 913
 FREQUENCY, 953
 FWD-1, 953
- G**
 GAF domain, 1119
 gene expression, 943
 genome census, 972
 genome sequence, 986
 β -1,3-glucan, 1158
 gluconeogenesis, 967
 glucose metabolism, 1059
 glycolysis, 945
 glycophorin A (GpA), 910
 glycosaminoglycan (GAG), 1116, 1129
 glycosylation, 1094
 glycosylphosphatidylinositol, 983
 G-protein-coupled receptor (GPCR), 1131
 GTPase, 891
 guanylate cyclase (GC), 1119
- H**
 haem α_3 , 934
 haemolysin B (HlyB), 990
 heat stress, 1166
 heparan sulphate (HS), 1116
 herd immunity, 986
 heterodimer, 1003
 hippocampus, 1029
 homeostasis, 1053
 homeostatic system, 1182
 homology modelling, 1202
 HT1080 cells, 1135
 hydrogen peroxide, 1082
 hydrophobicity scale, 1012
 3-hydroxyacyl-thioester dehydratase, 1162
 hypothalamus, 1063
 hypoxia, 1078, 1137
- I**
 immune evasion, 981
 import motor, 1019
 inflammation, 1078
 innervation, 1049
 inositol, 1150
 inositol 1-phosphate, 983
 inositol-1-phosphate synthase (INO1), 983
 insulin, 1033, 1037, 1073
 insulin-induced amyloid, 1041
 insulin resistance, 1045, 1053
 interleukin-6, 1126
 intracerebroventricular (i.c.v.), 1063
 Isc1p, 1166
- K**
 KcsA, 905, 916
 92 kDa type IV collagenase, 1135
 α -keto acid dehydrogenase, 977
 Kir6.2, 916

L

lamin, 1073
 leptin, 1029
 light-dark cycle, 962
 light responsiveness, 962
 lincosamide, 1000
 lipid, 924, 938, 1141
 lipid metabolism, 1053, 1178
 lipid-peptide interaction, 931
 lipid-protein interaction, 905, 916, 938
 lipid raft, 1131, 1219
 lipid storage, 1174
 lipodystrophy, 1073
 lipolysis, 1059
 lipophilic quinone inhibitor, 921
 liposome structure, 931
 lipoylation pathway, 977
 liver X receptor, 1059
 LmrA, 1008
 long-chain base, 1170
 long-chain fatty acid, 1178
 long-term potentiation, 1087
 L-type channel, 1137

M

macrolide, 1000
 malaria, 977
 malonyl-CoA decarboxylase (MCD), 1063
 matrix metalloproteinase-9 (MMP-9), 1135
 mechanosensitive channel, 905
 melittin, 931
 membrane binding, 913
 membrane mimics, 931
 membrane protein, 910, 924, 938, 996, 1012
 membrane transport, 1000, 1186
 memory, 1033
 metabolic networking, 1154
 metabolic syndrome, 1041, 1078
 metal, 1082
 micelle, 910
 microdomain, 1131
 microtubule, 891
 mitochondria, 1019
 mitochondrial fatty acid synthesis, 1162
 mitochondrial translocase, 1019
 mitochondrion, 897, 967, 977, 1158
 mitogen-activated protein kinase (MAPK), 1158
 mobilization, 1174
 molecular dynamics, 1012
 molecular dynamics (MD) simulation, 910
 molecular simulation, 916
 morphogenesis, 1219
 mosaic gene, 986
 motility, 975
 mouse model, 1053
 multidrug resistance, 1008
 mutagenesis, 1202, 1206
myo-inositol synthesis, 983

N

neprilysin, 1101
 neurodegeneration, 1082, 1123
 neurodegenerative disease, 1113
 neuropeptide Y, 1068
Neurospora, 953
Neurospora crassa, 949

neurotoxicity, 1111
 neutral lipid, 1174, 1182
 nitric oxide (NO), 1119, 1129
 N-methyl-D-aspartate receptor (NMDA receptor), 1029
 NMR, 913
 non-esterified fatty acid (NEFA), 1045
 nucleotide-binding domain, 990, 1003
 nucleus, 1137
 nystatin, 1206

O

obesity, 1049
 octapeptide repeat, 1123
 oligomer, 1082, 1087
 OmpA, 910, 916
 O₂ reduction site, 934
 organelle, 1131
 organ specificity, 943
 oxidative phosphorylation, 897
 oxidative stress, 1082, 1123
 oxidosqualene cyclase (OSC), 1202
 oxygenic photosynthesis, 921

P

palmitoylation, 1091
 Parkinson's disease, 1106
 pathogenesis, 1101
 pathology, 1073
 peroxisome-proliferator-activated receptor (PPAR), 1053
 pexophagy, 972
 phosphatidylcholine, 1146
 phosphatidylinositol, 1150
 phosphatidylserine, 1141, 1150
 phosphodiesterase (PDE), 1119
 phosphoenolpyruvate carboxylase kinase, 943
 phosphoinositide-dependent protein kinase 1 (PDK1), 1170
 phosphoinositide 3-kinase (PI3K), 1029
 phospholamban, 913
 phospholipid, 934, 938, 1141, 1150
 phosphorylation, 1126
 photopigment, 962
 photoreceptor, 949
 phyto sphingosine (PHS), 1170
 phytosterol diversity, 1189
 pigment-dispersing factor, 957
 plant metabolism, 945
 plant secretion, 1016
 plasma membrane, 1131
 plasma triacylglycerol, 1059
Plasmodium falciparum, 977
 plastoquinone, 921
 platelet, 1096
 polarity, 891
 polypeptide, 921
 P/O ratio, 897
 porcine nasal explant (PNE), 1129
 post-mortem brain protease, 1096
 potassium channel, 905, 916
 prion, 1094
 prion protein (PrP), 1123
 protein engineering, 924
 protein folding, 1094
 protein kinase, 1170
 protein kinase C (PKC), 1033

protein-lipid interactions, 1012
 protein-storage vacuole, 1016
 protein targeting, 975
 protein translocation, 1019
 protein transport, 1016, 1024
 proteolysis, 1123
 proton leak, 897
 proton pumping, 934
 PrP, 1094
 Prs (phosphoribosylpyrophosphate synthetase), 1154

Q

quinone-exchange cavity, 921

R

reaction centre, 924
 reactive oxygen species (ROS), 1123
 reacylation, 1146
 recombinant human erythropoietin (rHuEPO), 1129
 resistance mechanism, 1210
 respiratory competent, 1162
 rheumatoid arthritis (RA), 1129
 Rho, 891
 ribosome protection, 1000
 RNA interference (RNAi), 981
 rhythmic environment, 949

S

Saccharomyces cerevisiae, 1154, 1170, 1186
 Sec, 1024
 secondary-active transporter, 1008
 serine palmitoyltransferase, 1166
 β -sheet-breaker peptide, 1106
 SH-SY5Y neuroblastoma cell line, 1137
 signalling, 1119
 signal recognition particle (SRP), 1024
 signal transducer and activator of transcription (STAT), 1126
 single-channel kinetics, 1003
 single-particle analysis, 996
 β -site amyloid precursor protein clearing enzyme (BACE), 1091, 1096
 site-directed mutagenesis, 1189
 size-exclusion chromatography, 1087
 SKP/Cullin/F-box complex (SCF complex), 953
 SlT2, 1154
 SMase, 1166
 sphingolipid, 1166, 1170, 1178, 1219
 Sprague-Dawley rat, 1068
 squalene epoxidase, 1197
 squalene-hopene cyclase (SHC), 1202
 sterol, 1182, 1206
 sterol biosynthesis, 1215
 sterol biosynthesis inhibitor, 1189
 sterol methyltransferase, 1189
 sterol response element, 1215
 sterol uptake, 1186, 1215
 steryl ester, 1174, 1182
 streptogramin, 1000
 substrate-assisted catalysis, 990
 sulphonylurea therapy, 1037
 susceptibility, 1210
 synaptic plasticity, 1029
 α -synuclein, 1106, 1111, 1113

- T**
terbinafine sensitivity, 1197
therapeutic intervention, 1101
thiazolidinedione, 1045
thiazolidinedione therapy, 1037
thiol inhibitor, 1202
three-dimensional structure, 996
thylakoid, 1024
TIM23 complex, 1019
transgenic mice colony, 1111
transmembrane, 1012
transmembrane segment (TMS), 1008
transmissible spongiform encephalopathy (TSE), 1094
transport, 1141
triacylglycerol, 1174, 1182
Trypanosoma, 975
Trypanosoma brucei, 967, 981, 983
- trypanosomatid, 972
trypanosome, 986
tumour progression, 1135
twin-arginine translocation (Tat), 1024
Type II diabetes, 1045
Type II diabetes mellitus, 1041
- U**
ubiquitin–proteasome pathway, 953
uncoupling protein (UCP), 897
UPC2, 1215
- V**
vacuolar sorting signal, 1016
valproate, 1154
variant surface glycoprotein, 981, 986
vasculature, 1049
- voltage-dependent calcium channel (VDCC), 1137
VSG expression site, 981
- W**
white-collar complex, 949
- X**
X-ray crystallography, 924
X-ray structure, 934, 938, 990
- Y**
yeast, 1141, 1146, 1150, 1162, 1166, 1174, 1186, 1197, 1206
- Z**
zebrafish, 962
zinc, 1150