

- A**
 Abdala, A.P.L. 1258
 Ackland, G.L. 1264
 Adenuga, D. 1151
 Ader, C. 991
 Alarcón de la Lastra, C. 1156
 Akassoglou, K. 1273
 Alcor, D. 1013
 Alderwick, L.J. 1325
 Aldridge, V. 1329
 Allan, S.M. 1163
 Almeida, A. 1224
 Alzari, P.M. 1321
 Andreadi, C. 1329
 Anwyl, R. 1219
 Archer, Z.A. 1203
 Arora, D.K. 1191
 Austen, B.M. 974
- B**
 Baar, K. 1314
 Babraj, J. 1306
 Baillie, G.S. 938
 Baldus, M. 991
 Ball, D. 1306
 Baron, M. 1228
 Beck, P.L. 1375
 Beech, D.J. 890
 Behe, P. 1100
 Bender, K. 1180
 Bennett, A. 1310
 Besra, G.S. 1325
 Bingham, S.A. 1355
 Birch, H.L. 1325
 Blackburn, J. 1369
 Block, M.L. 1127
 Bolaños, J.P. 1224
 Boonsong, T. 1310
 Bootman, M.D. 957
 Bourque, C.W. 1236
 Boyd, C.A.R. 1215
 Brandon, N.J. 1283
 Brennan, L. 1180
 Brennan, S.C. 1195
 Bright, N.A. 1088
 Brini, M. 913
 Brooijmans, N. 1027
 Brosnan, J.T. 1175
 Brosnan, M.E. 1175
 Brown, C.H. 1236
 Brown, G.C. 1119, 1166
 Buckley, C.D. 1161
 Budas, G.R. 1021, 1052
- C**
 Cahalan, M.D. 1109
 Caito, S. 1151
 Calleja, V. 1013
 Cameron, A.J. 1013
 Cann, M.J. 1032
 Carafoli, E. 913
 Caride, A.J. 919
 Carmena, D. 1043
 Carragher, L. 1329
 Cartwright, E.J. 927
 Casteels, M. 876
 Chang, D.C. 1038
- Chaudhary, D. 1027
 Chelu, M.G. 952
 Cherrington, A.D. 1171
 Chiang, H.-S. 1377
 Chokkalingam, K. 1310
 Chrzanoska-Lightowler, Z.M.A. 1290
 Chuang, N.-N. 1292
 Churchill, E.N. 1021, 1040
 Clarke, A.R. 1338
 Claydon, T.W. 1080
 Cole, S.T. 1321
 Conigrave, A.D. 1195
 Corbalán-García, S. 1046
 Corfield, A. 1372
 Cripps, R.L. 1203
- D**
 Daly, K. 1191
 David, R. 1114
 De Rycker, M. 1013
 Dehghani Zadeh, A. 1069
 Dennis, A. 1060
 Desplanches, D. 1312
 Dikic, I. 942
 Di Leva, F. 913
 Domi, T. 913
 Donahue, K.C. 923
 Dunne, M.J. 1208
 Durieux, A.C. 1312
 Dyer, J. 1191
- E**
 Edgerton, D.S. 1171
 Edirisinghe, I. 1151
 Eggeling, L. 1325
 Elkabes, S. 923
 Etzkorn, M. 991
 Evans, B.A. 1035
- F**
 Faisal, A. 1013
 Fang, J.-Y. 1377
 Fearnley, C. 957
 Fedida, D. 1069, 1080
 Fedrizzi, L. 913
 Feijoo, C. 1369
 Fernandez-Fernandez, S. 1224
 Ficker, E. 1060
 Fields, A.P. 996
 Filer, A. 1161
 Filoteo, A.G. 919
 Flück, M. 1312
 Foreman, B.E. 1358
 Foster, C. 1329
 Fraccascia, P. 876
 Frederick, L.A. 996
 Freyssenet, D. 1312
 Friedler, A. 966
 Fruman, D.A. 1109
- G**
 Gallagher, T. 1372
 George, C.H. 946
 Giblett, S. 1329
 Gibson, C.L. 1133
 Gill, D. 1208
- Gillespie, S.H. 1317
 Goberdhan, D.C.I. 1215
 Gómez-Fernández, J.C. 1046
 Gorman, T. 1208
 Gourine, A.V. 1264
 Graessmann, M. 1372
 Grinstein, S. 1083
 Guerrero-Valero, M. 1046
 Gunn, J. 900
- H**
 Halliwell, B. 1147
 Hamilton, D.L. 1314
 Harkin, D.P. 1342
 Harmer, S.C. 1074
 Harper, M.T. 1005
 Harvey, B.J. 1049
 Harzheim, D. 957
 Hauri, H.-P. 970
 He, M. 962
 Hebbe-Viton, V. 1372
 Helleday, T. 1352
 Hemmings, B.A. 1013
 Henry, R. 1151
 Herbert, T.P. 1205
 Herrero-Mendez, A. 1224
 Hewinson, J. 1168
 Higazi, D.R. 957
 Hoffman, M.S. 1269
 Holyoake, T.L. 1347
 Hong, J.-S. 1127
 Hoogenraad, C.C. 1278
 Houslay, M.D. 938
 Howells, L.M. 1358
 Hu, N.W. 1219
 Huang, C.-C. 1292
 Hung, C.-F. 1377
 Hunter, I. 908
 Hunter, W.N. 980
 Hutchinson, D.S. 1035
 Huynh, K.K. 1083
- I**
 Ikeda, F. 942
- J**
 Jackson, C.L. 887
 Jarnæss, E. 931
 Ficker, E. 1060
 Jin, H. 1329
 Johnson, D. 1208
 Jones, R.L. 910
 Jørgensen, H.G. 1347
 Joseph-McCarthy, D. 1027
- K**
 Kamata, T. 1329
 Kasymov, V. 1264
 Katz, C. 966
 Keller, P. 1306
 Kennedy, S. 910
 Kiely, A. 1180
 Kimball, S.R. 1298
 Kjaer, S. 1013
 Klein, A. 1372
 Klyubin, I. 1219
 Kode, A. 1151
- Kokrashvili, Z. 1191
 Komen, J.C. 865
 Kostelecky, B. 1013
 Kovanen, P.T. 857
 Koyanagi, T. 1021
 Krishnan, K.J. 1232
 Kudin, A.P. 1228
 Kuhnle, G.G.C. 1355
 Kunz, W.S. 1228
 Kurnellas, M.P. 923
- L**
 Laguerre, M. 1013
 Lai, F.A. 946
 Lao, Y. 1038
 Larijani, B. 1013
 Laynes, R. 1215
 Leitges, M. 1018
 Leng, G. 1236, 1247
 Li, L. 1138
 Li, Y. 1375
 Lightowler, R.N. 1290
 Lim, D. 913
 Lloyd, M.D. 862
 Loewen, M.E. 1069
 Ludwig, M. 1236, 1243
 Luzio, J.P. 1088
 Lynch, M.J. 938
- M**
 Macdonald, I. 1310
 MacFarlane, P.M. 1269
 MacKenzie, A.B. 1168
 MacKenzie, M.G. 1314
 Mankouri, J. 1055
 Mannaerts, G.P. 876
 Manson, M.M. 1358
 Marelli-Berg, F.M. 1114
 Margolskee, R.F. 1191
 Marinovic-Terzic, I. 942
 Marin-Vicente, C. 1046
 Marshansky, V. 1092
 Masselot, D. 1372
 Matheu, M.P. 1109
 Mathieson, F.A. 908
 McCafferty, D.-M. 1375
 McCaig, A.M. 1009
 McColl, B.W. 1163
 McCormick, C. 910
 McDonald, N. 1013
 McDonough, M.A. 870
 McEaney, V. 1049
 McGettrick, H.M. 1161
 McLaughlin, J. 1199
 Mercer, J.G. 1203
 Michie, A.M. 1009
 Middleton, D.A. 985
 Mishra, A.K. 1325
 Mitchell, G.S. 1269
 Mizielska, S.M. 1077
 Mochly-Rosen, D. 1021, 1040, 1052
 Mohapatra, D.P. 1064
 Moiseeva, E.P. 1358
 Moore, M.C. 1171
 Moore, P.K. 1138
 Morley, M.E. 905

Morton, A.C. 900
Mosyak, L. 1027
Motterlini, R. 1142
Mullan, P.B. 1342
Müller, B. 1369
Mun, H.-C. 1195
Murphy, S. 1133
Murray, J.T. 1314
Murray, M.M. 1342

N

Nakagawa, R. 1009
Nash, G.B. 1161
Neher, J.J. 1166
Neumann, I.D. 1252
Newsholme, P. 1180
Neyses, L. 927
Nixon, G.F. 908
Norton, L. 1310
Nyfeler, B. 970

O

Oak, J.S. 1109
Oceandy, D. 927
Ögmundsdóttir, M.H. 1215
Ozanne, S.E. 1203

P

Paraskeva, C. 1372
Park, K.-S. 1064
Parker, I. 1109
Parker, P.J. 1013
Parsons, R.B. 974
Paton, J.F.R. 1258
Patsos, G. 1372
Pedersen, B.K. 1295
Peers, C. 905
Penniston, J.T. 919

Petermann, E. 1352
Pierrefiche, O. 1258
Pitchford, S.C. 1104
Poole, A.W. 1005
Porter, K.E. 905
Pritchard, C. 1329
Proud, C.G. 1187
Pryor, P.R. 1088

R

Rahman, I. 1151
Rainger, G.E. 1161
Rajendrasozhan, S. 1151
Reeve, A.K. 1232
Regala, R.P. 996
Rennie, M.J. 1302
Reyland, M.E. 1001
Reynolds, B. 1215
Riches, K. 905
Rigas, B. 1364
Robbe-Masselot, C. 1372
Robins, S.P. 849
Roder, K. 1211
Roderick, H.L. 957
Rorbach, J. 1290
Rotem, S. 966
Rothwell, N.J. 1122, 1163
Rowan, M.J. 1219
Rowe, I. 1247

S

Sabatier, N. 1247
Sachs, B.D. 1273
Salmon, K.S.H. 1191
San Martin, R. 1372
Sardini, A. 1043
Sargent, F. 835
Sato, M. 1035
Saurin, A. 1013

Schneider, R. 991
Schofield, C.J. 870
Schweizer, M. 1211
Scott, V. 1236
Segal, A.W. 1100
Seidel, K. 991
Sewell, D.A. 1306
Shepherd, R.M. 1208
Shirazi-Beechey, S.P. 1191
Simi, A. 1122
Sindelar, D.K. 1171
Sivaprasadarao, A. 1055
Smith, A.J. 1055
Smith, A.J. 1287
Smith, D.M. 1208
Smith, R.A. 1287
Smyrnias, I. 957
Smythe, C. 1369
Sniekers, M. 876
Soleimanpour-Lichaei, R. 1290
Somers, W. 1027
Spangler, S.A. 1278
Stanley, P.J. 927
Steele, D.F. 1069
Steinberg, B.E. 1083
Stone, T.W. 1287
Strehler, E.E. 919
Summers, R.J. 1035
Susic, D. 853

T

Taneja, T.K. 1055
Taskén, K. 931
Taussig, M.J. 962
Terzic, J. 942
Thomas, N.L. 946
Thomas, W. 1049
Timmons, J.A. 1306
Tinker, A. 1074
Tobin, V.A. 1243

Trimmer, J.S. 1064
Tsakiri, N. 1122
Tsintzas, K. 1310
Turnbull, D.M. 1232

U

Ulrich, H.D. 1334

V

Van Veldhoven, P.P. 876
Villegas, I. 1156
Vollaard, N. 1306

W

Wadsworth, R.M. 910
Walker, R.D. 900
Wan, X. 1060
Wanders, R.J.A. 865
Wang, L. 1060
Wang, P. 1122
Wang, Q. 1219
Wehrens, X.H.T. 952
Wierzbicki, A.S. 862, 881
Wijekoon, E.P. 1175
Wilkerson, J.E.R. 1269
Williams, A.J. 946
Wu, W.-B. 1377

X

Xu, Q. 895
Xu, Z. 1027

Y

Yang, S.-R. 1151
Yao, H. 1151

Z

Zhang, R. 1375
Zhao, X. 1369

- Abdala, A.P.L. 1258
 Ackland, G.L. 1264
 Adenuga, D. 1151
 Ader, C. 991
 Alarcón de la Lastra, C. 1156
 Akassoglou, K. 1273
 Alcor, D. 1013
 Alderwick, L.J. 1325
 Aldridge, V. 1329
 Allan, S.M. 1163
 Almeida, A. 1224
 Alzari, P.M. 1321
 Andreadi, C. 1329
 Anwyl, R. 1219
 Archer, Z.A. 1203
 Arora, D.K. 1191
 Austen, B.M. 974
- Baar, K. 1314
 Babraj, J. 1306
 Baillie, G.S. 938
 Baldus, M. 991
 Ball, D. 1306
 Baron, M. 1228
 Beck, P.L. 1375
 Beech, D.J. 890
 Behe, P. 1100
 Bender, K. 1180
 Bennett, A. 1310
 Besra, G.S. 1325
 Bingham, S.A. 1355
 Birch, H.L. 1325
 Blackburn, J. 1369
 Block, M.L. 1127
 Bolaños, J.P. 1224
 Boonsong, T. 1310
 Bootman, M.D. 957
 Bourque, C.W. 1236
 Boyd, C.A.R. 1215
 Brandon, N.J. 1283
 Brennan, L. 1180
 Brennan, S.C. 1195
 Bright, N.A. 1088
 Brini, M. 913
 Brooijmans, N. 1027
 Brosnan, J.T. 1175
 Brosnan, M.E. 1175
 Brown, C.H. 1236
 Brown, G.C. 1119, 1166
 Buckley, C.D. 1161
 Budas, G.R. 1021, 1052
- Cahalan, M.D. 1109
 Caito, S. 1151
 Calleja, V. 1013
 Cameron, A.J. 1013
 Cann, M.J. 1032
 Carafoli, E. 913
 Caride, A.J. 919
 Carmena, D. 1043
 Carragher, L. 1329
 Cartwright, E.J. 927
 Casteels, M. 876
 Chang, D.C. 1038
 Chaudhary, D. 1027
 Chelu, M.G. 952
 Cherrington, A.D. 1171
 Chiang, H.-S. 1377
- Chokkalingam, K. 1310
 Chrzanowska-Lightowlers, Z.M.A. 1290
 Chuang, N.-N. 1292
 Churchill, E.N. 1021, 1040
 Clarke, A.R. 1338
 Claydon, T.W. 1080
 Cole, S.T. 1321
 Conigrave, A.D. 1195
 Corbalán-García, S. 1046
 Corfield, A. 1372
 Cripps, R.L. 1203
- Daly, K. 1191
 David, R. 1114
 De Rycker, M. 1013
 Dehghani Zadeh, A. 1069
 Dennis, A. 1060
 Desplanches, D. 1312
 Dikic, I. 942
 Di Leva, F. 913
 Domi, T. 913
 Donahue, K.C. 923
 Dunne, M.J. 1208
 Durieux, A.C. 1312
 Dyer, J. 1191
- Edgerton, D.S. 1171
 Edirisinghe, I. 1151
 Eggeling, L. 1325
 Elkabes, S. 923
 Etzkorn, M. 991
 Evans, B.A. 1035
- Faisal, A. 1013
 Fang, J.-Y. 1377
 Fearnley, C. 957
 Fedida, D. 1069, 1080
 Fedrizzi, L. 913
 Feijoo, C. 1369
 Fernandez-Fernandez, S. 1224
 Ficker, E. 1060
 Fields, A.P. 996
 Filer, A. 1161
 Filoteo, A.G. 919
 Flück, M. 1312
 Foreman, B.E. 1358
 Foster, C. 1329
 Fraccascia, P. 876
 Frederick, L.A. 996
 Freyssenet, D. 1312
 Friedler, A. 966
 Fruman, D.A. 1109
- Gallagher, T. 1372
 George, C.H. 946
 Giblett, S. 1329
 Gibson, C.L. 1133
 Gill, D. 1208
 Gillespie, S.H. 1317
 Goberdhan, D.C.I. 1215
 Gómez-Fernández, J.C. 1046
 Gorman, T. 1208
 Gourine, A.V. 1264
 Graessmann, M. 1372
 Grinstein, S. 1083
 Guerrero-Valero, M. 1046
 Gunn, J. 900
- Halliwell, B. 1147
 Hamilton, D.L. 1314
 Harkin, D.P. 1342
 Harmer, S.C. 1074
 Harper, M.T. 1005
 Harvey, B.J. 1049
 Harzheim, D. 957
 Hauri, H.-P. 970
 He, M. 962
 Hebbe-Viton, V. 1372
 Helleday, T. 1352
 Hemmings, B.A. 1013
 Henry, R. 1151
 Herbert, T.P. 1205
 Herrero-Mendez, A. 1224
 Hewinson, J. 1168
 Higazi, D.R. 957
 Hoffman, M.S. 1269
 Holyoake, T.L. 1347
 Hong, J.-S. 1127
 Hoogenraad, C.C. 1278
 Houslay, M.D. 938
 Howells, L.M. 1358
 Hu, N.W. 1219
 Huang, C.-C. 1292
 Hung, C.-F. 1377
 Hunter, I. 908
 Hunter, W.N. 980
 Hutchinson, D.S. 1035
 Huynh, K.K. 1083
- Ikeda, F. 942
- Jackson, C.L. 887
 Jarnæss, E. 931
 Jewell, K. 1310
 Jin, H. 1329
 Johnson, D. 1208
 Jones, R.L. 910
 Jørgensen, H.G. 1347
 Joseph-McCarthy, D. 1027
- Kamata, T. 1329
 Kasymov, V. 1264
 Katz, C. 966
 Keller, P. 1306
 Kennedy, S. 910
 Kiely, A. 1180
 Kimball, S.R. 1298
 Kjaer, S. 1013
 Klein, A. 1372
 Klyubin, I. 1219
 Kode, A. 1151
 Kokrashvili, Z. 1191
 Komen, J.C. 865
 Kostecky, B. 1013
 Kovanen, P.T. 857
 Koyanagi, T. 1021
 Krishnan, K.J. 1232
 Kudin, A.P. 1228
 Kuhnle, G.G.C. 1355
 Kunz, W.S. 1228
 Kurnellas, M.P. 923
- Laguerre, M. 1013
 Lai, F.A. 946
 Lao, Y. 1038

- Larijani, B. 1013
Laynes, R. 1215
Leitges, M. 1018
Leng, G. 1236, 1247
Li, L. 1138
Li, Y. 1375
Lightowlers, R.N. 1290
Lim, D. 913
Lloyd, M.D. 862
Loewen, M.E. 1069
Ludwig, M. 1236, 1243
Luzio, J.P. 1088
Lynch, M.J. 938
- Macdonald, I. 1310
MacFarlane, P.M. 1269
MacKenzie, A.B. 1168
MacKenzie, M.G. 1314
Mankouri, J. 1055
Mannaerts, G.P. 876
Manson, M.M. 1358
Marelli-Berg, F.M. 1114
Margolskee, R.F. 1191
Marinovic-Terzic, I. 942
Marín-Vicente, C. 1046
Marshansky, V. 1092
Massetot, D. 1372
Matheu, M.P. 1109
Mathieson, F.A. 908
McCafferty, D.-M. 1375
McCaig, A.M. 1009
McColl, B.W. 1163
McCormick, C. 910
McDonald, N. 1013
McDonough, M.A. 870
McEaney, V. 1049
McGettrick, H.M. 1161
McLaughlin, J. 1199
Mercer, J.G. 1203
Michie, A.M. 1009
Middleton, D.A. 985
Mishra, A.K. 1325
Mitchell, G.S. 1269
Mizielinska, S.M. 1077
Mochly-Rosen, D. 1021, 1040, 1052
Mohapatra, D.P. 1064
Moiseeva, E.P. 1358
Moore, M.C. 1171
Moore, P.K. 1138
Morley, M.E. 905
Morton, A.C. 900
Mosyak, L. 1027
Motterlini, R. 1142
Mullan, P.B. 1342
Müller, B. 1369
Mun, H.-C. 1195
Murphy, S. 1133
Murray, J.T. 1314
Murray, M.M. 1342
- Nakagawa, R. 1009
Nash, G.B. 1161
Neher, J.J. 1166
Neumann, I.D. 1252
Newsholme, P. 1180
Neyses, L. 927
- Nixon, G.F. 908
Norton, L. 1310
Nyfeler, B. 970
- Oak, J.S. 1109
Oceandy, D. 927
Ögmundsdóttir, M.H. 1215
Ozanne, S.E. 1203
- Paraskeva, C. 1372
Park, K.-S. 1064
Parker, I. 1109
Parker, P.J. 1013
Parsons, R.B. 974
Paton, J.F.R. 1258
Patsos, G. 1372
Pedersen, B.K. 1295
Peers, C. 905
Penniston, J.T. 919
Petermann, E. 1352
Pierrefiche, O. 1258
Pitchford, S.C. 1104
Poole, A.W. 1005
Porter, K.E. 905
Pritchard, C. 1329
Proud, C.G. 1187
Pryor, P.R. 1088
- Rahman, I. 1151
Rainger, G.E. 1161
Rajendrasozhan, S. 1151
Reeve, A.K. 1232
Regala, R.P. 996
Rennie, M.J. 1302
Reyland, M.E. 1001
Reynolds, B. 1215
Riches, K. 905
Rigas, B. 1364
Robbe-Massetot, C. 1372
Robins, S.P. 849
Roder, K. 1211
Roderick, H.L. 957
Rorbach, J. 1290
Rotem, S. 966
Rothwell, N.J. 1122, 1163
Rowan, M.J. 1219
Rowe, I. 1247
- Sabatier, N. 1247
Sachs, B.D. 1273
Salmon, K.S.H. 1191
San Martin, R. 1372
Sardini, A. 1043
Sargent, F. 835
Sato, M. 1035
Saurin, A. 1013
Schneider, R. 991
Schofield, C.J. 870
Schweizer, M. 1211
Scott, V. 1236
Segal, A.W. 1100
Seidel, K. 991
Sewell, D.A. 1306
Shepherd, R.M. 1208
Shirazi-Beechey, S.P. 1191
Simi, A. 1122
- Sindelar, D.K. 1171
Sivaprasadarao, A. 1055
Smith, A.J. 1055
Smith, A.J. 1287
Smith, D.M. 1208
Smith, R.A. 1287
Smyrnias, I. 957
Smythe, C. 1369
Sniekers, M. 876
Soleimanpour-Lichaei, R. 1290
Somers, W. 1027
Spangler, S.A. 1278
Stanley, P.J. 927
Steele, D.F. 1069
Steinberg, B.E. 1083
Stone, T.W. 1287
Strehler, E.E. 919
Summers, R.J. 1035
Susic, D. 853
- Taneja, T.K. 1055
Taskén, K. 931
Taussig, M.J. 962
Terzic, J. 942
Thomas, N.L. 946
Thomas, W. 1049
Timmons, J.A. 1306
Tinker, A. 1074
Tobin, V.A. 1243
Trimmer, J.S. 1064
Tsakiri, N. 1122
Tsintzas, K. 1310
Turnbull, D.M. 1232
- Ulrich, H.D. 1334
- Van Veldhoven, P.P. 876
Villegas, I. 1156
Vollaard, N. 1306
- Wadsworth, R.M. 910
Walker, R.D. 900
Wan, X. 1060
Wanders, R.J.A. 865
Wang, L. 1060
Wang, P. 1122
Wang, Q. 1219
Wehrens, X.H.T. 952
Wierzbicki, A.S. 862, 881
Wijekoon, E.P. 1175
Wilkerson, J.E.R. 1269
Williams, A.J. 946
Wu, W.-B. 1377
- Xu, Q. 895
Xu, Z. 1027
- Yang, S.-R. 1151
Yao, H. 1151
- Zhang, R. 1375
Zhao, X. 1369

- A**
acetaldehyde, 1138
acidification, 1083
acquired long QT syndrome, 1060
action potential, 1077
acute coronary syndrome, 900
acyl-CoA thioesterase, 865
adenocarcinoma, 1375
adenomatous polyposis coli (Apc), 1338
adenosine, 1264
adenylate cyclase, 1032
adhesion, 1161
adipose tissue, 1295
ADP-ribosylation factor (Arf), 1092
 β_2 -adrenergic receptor, 938
 β_3 -adrenoceptor, 1035
advanced glycation end-product (AGE), 853
Affymetrix, 1306
afterdepolarization, 1236
afterhyperpolarization, 1236
aging, 849
A-kinase-anchoring protein (AKAP), 931
alagebrium, 853
aldosterone, 1049
allergy, 1104
allosteric agonist, 1021
 α -methylacyl-CoA racemase (AMACR), 881
Alzheimer's disease, 1219
amino acid, 1187, 1302
amino acid metabolism, 1180
amino acid-sensing receptor, 1195
amino acid transporter, 1215
4-aminopyridine, 1080
ammonia, 1138
AMP-activated protein kinase, 1224
amyloid, 985
amyloid β -peptide (A β), 1219
amyloid precursor protein (APP), 974
amyotrophic lateral sclerosis (ALS), 1228
antibiotic resistance, 1317
antiepileptic drug, 1077
antimicrobial drug, 980
antioxidant, 1147, 1156
apolipoprotein E-knockout mouse, 887
apoptosis, 857, 1001, 1038, 1040, 1372
apoptosis-stimulating protein of p53 (ASPP), 966
apparent total N-nitroso compound, 1355
arabinogalactan, 1325
 β -arrestin, 938
arrhythmia, 946
arrhythmogenic right ventricular cardiomyopathy type 2 (ARVC), 946
asthma, 1104
astrocyte, 1224
ataxia telangiectasia mutated- and Rad3-related (ATR), 1369
ataxia-telangiectasia mutated gene (ATM), 1369
atherosclerosis, 857, 887, 895, 1163
atopy, 1104
ATP, 1168, 1264
ATP competitive kinase inhibitor, 1027
ATP-sensitive potassium channel (K_{ATP} channel), 1055
atypical protein kinase C ζ (aPKC ζ), 996
aurothiomalate, 996
axonal regeneration, 1273
- B**
bacterial meningitis, 1166
Bax, 1038
Bcl-2, 1009, 1038
BCR-ABL, 1347
benzyl-*O*-*N*-acetyl-D-galactosamine, 1372
betaine, 1175
 β -site amyloid precursor protein-cleaving enzyme (BACE), 974
biological membrane, 991
biomarker, 1358
biophysics, 966
B-lymphocyte, 1009
brachiocephalic artery, 887
BRAF, 1329
brain, 1133
brain abscess, 1166
brain-derived neurotrophic factor (BDNF), 1269
breast-cancer susceptibility gene 1 (BRCA1), 1342
breastfeeding, 1203
- C**
calcineurin, 1064
calcium, 1046, 1088
calcium/calmodulin-dependent enzyme, 927
calcium channel, 890
calcium dyshomeostasis, 923
calcium flux, 957
calcium leak, 952
calcium pump, 919
calcium regulation, 919
calcium release channel, 946
calcium-sensing receptor, 1195
calcium signalling, 913, 919, 1038, 1208
calcium transport, 927
calmodulin, 919
cAMP, 931, 1035
cAMP phosphodiesterase, 938
cancer, 881, 1018, 1147, 1215, 1329, 1338, 1364
cancer therapy, 1352
carbon monoxide, 1138
carbon monoxide-releasing molecule (CO-RM), 1142
cardiac arrhythmia, 952
cardiac failure, 957
cardiac fibroblast, 905
cardiac ischaemia/reperfusion injury, 1040
cardiac voltage-gated potassium channel, 1069
cardiomyocyte, 927, 938, 957
cardioprotection, 1052
cardiovascular injury, 853
cargo receptor, 970
caspase 3, 1001
catecholaminergic polymorphic ventricular tachycardia (CPVT), 946, 952
caveolin, 1035
CD28, 1114
C2 domain, 1021, 1046
cell culture, 1147
cell cycle, 1342
cell death, 1119
cell-free protein synthesis, 962
cell wall, 1325
cerebellar granule neuron, 1287
cerebral ischaemia, 1133
channel gating, 1080
checkpoint, 1342
chemokine, 1109, 1163, 1375
chemoprevention, 1358, 1364
chemoreceptor, 1264
chemotaxis, 1109
chemotherapy, 1342
cholecystokinin, 1199
chronic granulomatous disease (CGD), 1100
chronic lymphocytic leukaemia (CLL), 1009
chronic obstructive pulmonary disease (COPD), 1151, 1273
cigarette smoke, 1151
coatamer protein I (COPI), 1055
colitis, 1375
collagen, 849, 905
collagen fibre, 853
colorectal cancer, 1355, 1372
compartmentalization, 931
congenital hyperinsulinism, 1055
contraction, 957, 1302
conventional protein kinase C (cPKC), 1005, 1043
copper, 1156
coronary artery disease, 857
co-stimulatory molecule, 1114
Cre-Lox, 1329
cross-link breaker, 853
cross-polarization magic-angle spinning (CP-MAS), 985
crypt-villus axis, 1338
cyanobacterium, 1032
cyclic nucleotide, 1032
cyclo-oxygenase (COX), 1364
cystathionine β -synthase, 1175
cytokeratin 1, 1292
cytokine, 1295
cytotoxic T-lymphocyte-associated protein-4 (CTLA-4), 1114
- D**
deafness, 913
decompensated hypertrophy, 957
deficient mouse model, 1018
degradation, 1043
dendrite, 1236
dendritic release, 1243, 1247
dermatitis, 1104
de-ubiquitinating enzyme, 942
diabetes, 1175, 1180, 1205, 1295
diacylglycerol (DAG), 1018, 1043
diastole, 952
directly observed therapy short course (DOTS), 1321
disrupted in schizophrenia 1 (DISC1), 1283
DNA-activated protein kinase, 1369
DNA damage, 1156
DNA replication, 1334, 1352, 1369
dopaminergic neuron, 1127
double-stranded-RNA-dependent protein kinase (PKR)-like ER kinase (PERK), 1205
Drosophila, 1215
drug discovery, 985
drug-eluting stent, 910
drug target, 1325

E

early life nutrition, 1203
 elastin, 849
 electrical signalling, 1064
 endocytosis, 1055, 1088
 endogenous gas, 1138
 endoplasmic reticulum, 970
 endoplasmic reticulum–Golgi intermediate compartment protein of 53 kDa (ERGIC-53), 970
 endoplasmic reticulum stress, 1205
 endosome, 1088
 endosome/lysosome, 1092
 endothelial cell, 1161
 endothelium, 895
 endurance exercise, 1306
 energy balance, 1203
 enteroendocrine cell, 1191, 1199
 enzyme inhibition, 980
 enzyme lifespan, 1043
 epidermal growth factor receptor (EGFR), 1049
 epilepsy mutation, 1077
 epithelial sodium channel (ENaC), 1049
 eukaryotic initiation factor 2 α (eIF2 α), 1205
 eukaryotic initiation factor 4E (eIF4E), 1187, 1298
 eukaryotic initiation factor 4E-binding protein-1 (4E-BP1), 1187, 1298
 evolution, 1317
 exercise, 1310
 experimental autoimmune encephalomyelitis, 923
 extracellular calcium concentration, 1195
 extracellular matrix, 849, 857
 extracellular-signal-regulated kinase (ERK), 931, 1310

F

farnesyl transferase, 1347
 fatty acid, 1199
 fatty acid oxidation, 865
 fatty acid synthase (FAS), 1211
 feeding behaviour, 1247
 fetal growth, 1203
 fibroblast, 1161, 1377
 fibrosis, 1273
 filopodium, 1005
 fluorescence, 970
 fluorescence resonance energy transfer (FRET), 1083
 focal adhesion kinase (FAK), 1312
 Friedreich's ataxia, 1228

G

GAF domain, 1032
 γ -aminobutyric acid (GABA), 1258
 ganglioside, 1292
 gastrointestinal tract, 1199
 geldanamycin, 1060
 gene expression, 1180
 genetically engineered mouse model, 1329
 genome stability, 1334
 genotoxin, 1001
 glucagon, 1171
 glucokinase activator, 1208
 glucose, 1180

glutamatergic transmission, 1219
 glycation, 853
 O-glycosylation, 1372
 Golgi-associated γ -adaptin ear homology domain ADP-ribosylation factor (Arf)-interacting protein-1 (GGA-1), 974
 G-protein, 1035
 G-protein-coupled receptor (GPCR), 985, 1191
 GTPase-activating protein (GAP), 1187
 guanylate cyclase, 1142
 gut hormone, 1191

H

haem oxygenase, 1142
 hearing loss, 913
 heart, 927, 1074
 heart disease, 957
 heat-shock protein 90 (Hsp90), 1060
 hippocampus, 1219
 histone deacetylase (HDAC), 1151
 histone gene expression, 1369
 homologous recombination, 1352
 human coronary artery, 910
 human *ether-a-go-go*-related gene (hERG), 1060
 human mitochondrion, 1290
 human phosphoinositide 3-kinase-related kinase, 1369
 hydrogen sulfide, 1138
 2-hydroxyacyl-CoA lyase, 876
 5-hydroxyanthranilic acid, 1287
 2-hydroxy fatty acid, 876
 3-hydroxykynurenine, 1287
 5-hydroxytryptamine (5-HT), 1269
 hyperglycaemia, 1171
 hyperinsulinaemic euglycaemic clamp, 1310
 hypertension, 1049
 hypertrophy, 1314
 hypothalamus, 1243
 hypoxia, 905

I

IgE, 1104
 immune response, 1114
 indole, 1358
 inducible nitric oxide synthase (iNOS), 1133
 inflammation, 857, 900, 908, 1119, 1122, 1133, 1142, 1264
 inhibitor peptide, 1021
 inhibitory κ B kinase (IKK), 942
 insulin, 1171, 1215
 insulin-like growth factor-1 (IGF-1), 1302
 insulin release, 1208
 insulin resistance, 1175, 1295
 insulin secretion, 1180
 integrin, 1219, 1306
 integrin β 1, 1292
 interleukin, 1163, 1295
 interleukin-1 (IL-1), 1122
 interleukin-1 receptor antagonist (IL-1RA), 1122
 interleukin-10 (IL-10), 1375
 internalization, 1043
 intestinal glucose sensing, 1191
 intestine, 1338

intralipid, 1171
 invasion, 905
 inwardly rectifying potassium channel 6.2 (Kir6.2), 1055
 ion channel, 1064, 1074, 1077, 1100, 1168
 ion channel modulation, 1080
 ischaemia, 1052, 1122, 1142
 ischaemic preconditioning, 1040, 1052
 islet cell, 1208
 isoprenoid, 980
 isoprenylation, 974

J

jasplakinolide, 1243

K

KCNE1, 1074
 KCNQ1, 1074
 kinesin motor protein, 1278
 kynurenine, 1287

L

LAR, 1278
 latrunculin, 1243
 leucine, 1298
 leucocyte, 1161
 leukaemia, 1109
 ligand-selective signalling, 1195
 lipid bilayer, 991
 lipoarabinomannan, 1325
 lipopolysaccharide (LPS), 1375
 lipoteichoic acid, 1166
 liprin, 1278
 liver, 1171, 1175
 liver X receptor (LXR), 1211
 long QT syndrome 5 (LQTS), 1074
 long-term facilitation, 1269
 long-term potentiation (LTP), 1219
 lung cancer, 996
 lycopene, 1377
 lymphocyte, 1109
 lysosome, 1088
 lysyl hydroxylase, 849
 lysyl oxidase, 849

M

magic angle spinning (MAS), 991
 mammalian target of rapamycin (mTOR), 1187, 1298, 1314
 mass spectrometry, 1064
 mast cell, 857
 matrix metalloproteinase (MMP), 905
 mechanobiology, 1312
 mechanotransduction, 1312
 melanoma, 1377
 membrane-associated guanylate kinase (MAGUK), 1069
 membrane dynamics, 991
 membrane protein, 835
 membrane transport, 835
 microdialysis, 1252
 microglia, 1127, 1166
 microRNA, 1009, 1306
 migration, 1114, 1377
 mitochondrial DNA (mtDNA), 1232
 mitochondrial DNA mutation, 1232
 mitochondrial dysfunction, 1232
 mitochondrial elongation factor, 1290

- mitochondrial initiation factor, 1290
 mitochondrion, 1052, 1180, 1224, 1228
 molecular chaperone, 835
 molecular modelling, 1027
 molecular motor, 1069
 Morbus Parkinson, 1228
 mouse brown adipocyte, 1035
 mouse model, 1005
 moxifloxacin, 1321
 mucin, 1372
 mucolipin, 1088
 multiple sclerosis, 923
 multivesicular body, 1088
 murine model, 1009
 muscle, 1302
 mutagenesis, 1334
Mycobacterium, 1317
Mycobacterium tuberculosis, 1325
 myeloid leukaemia, 1347
 myocardial remodelling, 905
 myocardium, 1069
- N**
 NADPH oxidase, 1100, 1127, 1168
 natively unfolded protein, 966
 neonatal diabetes mellitus, 1055
 neuroblastoma, 1292
 neurodegeneration, 923, 1166, 1224
 neurodegenerative disease, 1122, 1232
 neurodegenerative disorder, 1228
 neuroinflammation, 1127, 1166
 neuron, 1064, 1247
 neuronal excitability, 1077
 neuronal nitric oxide synthase (nNOS), 927
 neuropeptide, 1247
 neurotrophin, 1273
 neutrophil, 1161, 1163
 neutrophil oxidase, 1100
 nitric oxide, 1119, 1133, 1138, 1258, 1364
 nitrosation, 1355
 nitroso thiol, 1355
 nitrosyl haem, 1355
 N-methyl-D-aspartate (NMDA), 1258
 NMR, 985
 NO-aspirin, 1364
 NO-donating non-steroidal anti-inflammatory drug (NO-NSAID), 1364
 non-coding RNA, 1306
 non-mevalonate pathway, 980
 Nox, 1151
 nuclear factor κ B (NF- κ B), 942
 nuclear factor-erythroid 2 p45 subunit-related factor 2 (Nrf2), 1151
 nuclear factor Y (NF-Y), 1211
 nuclear localization, 1001
 nudE nuclear distribution gene E homologue-like (Ndel1), 1283
 nutrient sensing, 1215
- O**
 obesity, 1203
 occlusive vascular disease, 890
 oligopeptidase, 1283
 opioid peptide, 1236
 1*H*-[1,2,4]oxadiazolo[4,3-*a*]quinoxalin-1-one (ODQ), 1258
 oxidant, 1151
 α -oxidation, 862
 ω -oxidation, 862, 865
 oxidative damage, 1147
 oxidative stress, 1147, 1232
 2-oxoglutarate, 870
 oxygenase, 870, 881
 oxytocin, 1247, 1252
- P**
 PA-824, 1321
 palmitoylation, 974
 pancreatic β -cell, 1205, 1208
 Par6, 996
 Parkinson's disease, 1127, 1232
 pattern-sensitivity, 1269
 pentose phosphate pathway (PPP), 1224
 peptide array, 1273
 percutaneous coronary intervention, 900
 pericellular matrix, 857
 peroxisome, 865, 876, 881
 peroxynitrite, 1119
 pertussis toxin, 1035
 p53-mediated apoptosis, 966
 phagocyte, 1100
 phagosomal membrane potential, 1083
 phagosome maturation, 1083
 L-phenylalanine, 1195
 phosphatidylserine, 1046
 phosphodiesterase (PDE), 931, 1032, 1283
 phosphodiesterase 4A (PDE4A), 1273
 phosphodiesterase 4D5 (PDE4D5), 938
 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase, 1224
 phosphoinositide-dependent kinase 1 (PDK1), 1013
 phosphoinositide 3-kinase (PI3K), 1109, 1168
 phospholipid, 890
 phosphorylation, 1013, 1269, 1312
 Phox-Bem1 domain (PB1 domain), 996
 pH-sensor, 1092
 phytanic acid, 862, 865, 870, 876, 881
 phytanoyl-CoA hydroxylase, 870
 plaque erosion, 857
 plaque rupture, 857, 887
 plasma-membrane Ca²⁺-ATPase (PMCA), 919, 923, 927
 plasma-membrane calcium pump, 913
 plasma profiling, 1358
 plasticity, 1269
 plateau potential, 1236
 platelet, 1005, 1104
 platelet-derived growth factor (PDGF), 1377
 pleckstrin homology domain (PH domain), 1013
 poly(ADP-ribose) polymerase (PARP), 1352
 polybasic cluster, 1046
 polyphenol, 1358
 posterior pituitary, 1243
 potassium channel, 890, 1060
 pravastatin, 887
 priming, 1243
 progenitor cell, 895
 progesterone, 1133
 programming, 1203
 proliferation, 1329
 proline-rich domain, 966
 pro-oxidant, 1156
 prostacyclin, 910
 prostanoid receptor, 910
 proteasome, 1040
 protein degradation, 1314
 protein degradative pathway, 1092
 protein fragment complementation assay (PCA), 970
 protein *in situ* array, 962
 protein kinase, 1064
 protein kinase A (PKA), 931, 938
 protein kinase B (PKB), 1013, 1302, 1310
 protein kinase C (PKC), 1001, 1013, 1018, 1021, 1027, 1040, 1046, 1049
 protein kinase C ϵ (PKC ϵ), 1052
 protein kinase C θ inhibitor, 1027
 protein kinase D (PKD), 1049
 protein-protein interaction, 835, 962, 966, 970, 1021
 protein-ribosome-mRNA complex (PRM complex), 962
 protein serine/threonine kinase, 1013
 protein synthesis, 1314
 protein targeting, 835
 protein turnover, 1302
 proteomic technology, 962
 PtdIns(4,5)P₂, 1046
 pteridine reductase, 980
 P2X₇, 1168
- Q**
 quiescence, 1347
 quinolinic acid, 1287
- R**
 R207910, 1321
 Rac1, 996
 reactive nitrogen species, 1119, 1168
 reactive oxygen species, 1040, 1100, 1119, 1127, 1156, 1168
 receptor for activated C-kinase (RACK), 1021, 1052, 1292
 receptor protein tyrosine phosphatase, 1278
 Refsum's disease, 862, 865, 870, 881
 remodelling, 887
 repair, 1352
 resistance exercise, 1314
 respiratory neuron, 1258
 respiratory rhythm, 1258
 restenosis, 900, 910
 resveratrol, 1156
 retinoic acid receptor (RAR), 1211
 retinoid X receptor (RXR), 1211
 rhythmic activity, 1236
 ribosome, 1290
 ribosome display, 962
 RNA stability, 1369
 rottlerin, 1005
 ryanodine receptor (RyR), 946
 ryanodine receptor 2 (RyR2), 952
- S**
 sarcoplasmic reticulum, 952
 scaffold protein, 1278
 schizophrenia, 1283
 senescence, 1147, 1329

- sepsis, 1264
serine/threonine kinase, 1321
signal pathway, 1372
single nucleotide polymorphism, 1317
skeletal muscle, 1295, 1310
small molecule, 991
smooth muscle cell, 895
smooth muscle cell proliferation, 910
social stressor, 1252
sodium, 1032
sodium/glucose co-transporter 1 (SGLT1), 1191
solid-state NMR, 985, 991
somatostatin, 1171
sphingolipid, 908
SQ109, 1321
Src, 1292
S6 kinase 1 (S6K1), 1298
stem cell, 895, 1347
stent, 900
sterol-regulatory-element-binding protein 1 (SREBP-1), 1211
sterol-regulatory-element-binding protein 1c (SREBP-1c), 1310
striated muscle, 1312
stroke, 1122, 1163
stromal cell, 1161
structure-based optimization, 1027
subcellular trafficking, 974
suckling, 1252
supraoptic nucleus, 1252
synapse-associated protein 97 (SAP97), 1069
synapse-defective-2 gene (*syd-2*), 1278
synaptic memory, 1219
systemic inflammation, 1163
systems biology, 1306
- T**
targeted therapeutics, 996
target of rapamycin (TOR) complex 1 (TORC1), 1298
taste receptor, 1191
T-cell, 1027, 1114
T-cell leukaemia/lymphoma-1 (Tcl-1), 1009
thiamin-responsive megaloblastic anaemia, 876
Toll-like receptor 4 (TLR4), 1375
trafficking, 1060, 1069, 1074, 1077
transceptor, 1215
transcription, 1342
transcription factor, 890, 942
translation, 1290
translation factor, 1290
translesion synthesis, 1334
trans-sulfuration, 1175
triacylglycerol, 1199
trypanothione reductase, 980
L-tryptophan, 1195
tryptophan metabolite, 1287
tuberculosis, 1317
tuberous sclerosis complex (TSC), 1187
tumorigenesis, 1352
tumour, 1018, 1377
tumour necrosis factor α (TNF α), 1219
tumour necrosis factor receptor (TNFR), 942
tumour subtype, 1358
twin-arginine translocase, 835
two-photon microscopy, 1109
- tyrosine kinase, 1347
tyrosine phosphorylation, 1001
- U**
ubiquitin, 1334
ubiquitination, 942, 1043
unfolded protein response, 1205
- V**
vacuolar H⁺-ATPase (V-ATPase), 1083, 1092
vacuolar protein sorting mutant 34 (Vps34), 1314
vascular disease, 908
vascular injury, 900
vascular smooth muscle cell (VSMC), 890, 908
vasoconstriction, 908
vasodilatation, 1142
vasodilator-stimulated phosphoprotein (VASP), 1005
vasopressin, 1252
vein graft remodelling, 895
ventilation, 1264
ventromedial hypothalamus, 1247
voltage clamp fluorimetry (VCF), 1080
voltage-gated potassium channel (Kv channel), 1080
voltage sensor movement, 1080
- W**
Wernicke-Korsakoff syndrome, 876
- Y**
yellow fluorescent protein (YFP), 970