

- A kinase, (408) 301
 A/V axis, (410) 499
 A431 cell, (407) 309
 AAA family, (404) 263
 ABC (ATP-binding cassette) transporter, (420) 86
 ABC transporter, (401) 11, 59; (402) 1; (405) 394; (407) 303; (410) 351; (411) 206; (413) 142, 211; (416) 359; (418) 269, 346
 Absorption spectrum, (413) 446; (416) 171
Acanthamoeba castellanii, (411) 110
Acaryochloris marina, (410) 428
Acetobacter xylinum, (416) 207
Acetobacterium woodii, (404) 269
 Acetohydroxy acid isomeroreductase, (408) 156
 Acetohydroxy acid synthase, (408) 156
 Acetylated methyl glycoside, (420) 121
 Acetylation, (401) 175; (403) 186
 Acetylcholine receptor, (403) 163; (418) 275
 Acetylcholinesterase, (407) 261, 347
 Acetylcholinesterase catalysis, (409) 155
 Acetylcholinesterase inhibitors, (409) 155
 Acetylcholinesterase mechanism, (409) 155
 Acetyl-CoA carboxylase, (413) 115
 Acetyl-CoA synthetase, (415) 16
N-Acetyltryptamine, (412) 79
 Acetylxylin esterase, (420) 121
 Acid denaturation, (402) 25
Acidaminococcus fermentans, (405) 209
 Acidic intracellular compartment, (416) 297
 Acidic pH, (406) 37
 Acidic protein, (418) 363
 Acidic residue, (419) 211
 Acid-induced isomerization, (417) 375
Acinetobacter radioresistens, (416) 61
 ACP mutation, (408) 217
ACR1 gene, (417) 114
 Acridine orange, (416) 297
 Acrosin, (417) 267
 Actin, (408) 71; (409) 380; (412) 94; (414) 39
 Actin binding, (400) 31; (409) 141
 Actin binding protein, (401) 89
 Actin cytoskeleton, (417) 21, 355
 Actin filament, (406) 109
 Actin fragmentation, (417) 191
 Actin nucleation, (417) 191
 Actin polymerization, (404) 118; (410) 68; (418) 258
 Actin-binding protein, (413) 441; (417) 191
 Actin-bundling protein, (414) 381
 α -Actinin, (401) 65; (403) 168
 Actinomycetes, (409) 221
 Actinomycin D, (412) 53; (415) 11
 Activated 20S proteasome, (404) 253
 Activating mutation, (409) 469
 Activation, (401) 223; (405) 157; (410) 59; (412) 568
 Activation protein I, (401) 30
 Activator, (412) 521; (413) 27; (415) 101
 Activator protein-1, (402) 265
 Active oxygen species, (412) 70
 Active residue Asp¹⁵⁷, (413) 409
 Active site, (403) 259; (404) 115
 Active site aspartate, (405) 209
 Active site glutamate, (405) 209
 Active site prediction, (414) 532
 Active transport, (400) 131
 Active-site mutant, (416) 77
 Activin, (420) 117
 Acute lung injury, (402) 111
 Acute phase protein, (404) 105; (405) 99
 Acute-phase reaction, (419) 215
 ACV synthetase, (414) 74
 Acyl carrier protein, (405) 267; (407) 249; (408) 217
 Acyl lipid, (416) 57
 Acylation, (407) 257
 ADAM 10, (400) 333
 Adaptation, (410) 25; (416) 179; (418) 235
 Adaptin-2, (407) 173
 Adenine nucleotide, (410) 329
 Adenine nucleotide translocator, (414) 253, 258
 Adeno-associated virus, (401) 180; (407) 78
 Adenosine, (408) 261
S-Adenosylhomocysteine hydrolase, (402) 102
S-Adenosyl-L-methionine:magnesium protoporphyrin methyltransferase activation, (407) 337
 Adenoviridae, (405) 5
 Adenovirus, (413) 441
 Adenovirus E1A, (414) 111
 Adenovirus vector, (413) 119
 Adenylate cyclase, (412) 153
 Adenylate kinase, (410) 180
 Adenylyl cyclase, (401) 68, 223; (404) 91; (406) 165; (413) 104
 Adenylyl cyclase isoform, (415) 275
 Adenylyl cyclase type V, (419) 4
 Adenylylimidodiphosphate, (409) 29
 Adherent cell, (402) 213
 Adhesion, (403) 181, 239
 Adipocyte, (404) 111; (414) 507
 Adipose cell, (409) 461
 Adipose tissue, (418) 323
 ADP receptor, (403) 26
 ADP/ATP carrier, (412) 207; (416) 19; (420) 167
 ADP-glucose pyrophosphorylase, (419) 124
 ADP-ribosyl cyclase, (405) 104
 ADP-ribosylation, (412) 227
 ADP-ribosyltransferase (EC 2.4.2.31), (412) 227
 Adrenal medulla, (420) 125
 Adrenaline, (415) 1; (419) 141
 Adrenergic receptor, (409) 53
 β -Adrenergic receptor, (417) 184
 β -Adrenergic receptor kinase, (401) 25, 243; (409) 24; (417) 243
 β_2 -Adrenergic receptor, (401) 25
 Adrenergic regulation, (411) 83
 Adrenoleukodystrophy, (405) 394
 Adrenomedullin, (413) 462; (418) 287
 Adreno-receptors, (412) 79
 Adsorption, (402) 67
 Adult ocular tissues, (410) 485
 Advanced glycation end product, (407) 297; (410) 481
 Aequorin, (401) 202
 Aerobiosis, (404) 272
Aeropyrum pernix, (415) 329
 Affinity, (405) 145; (416) 335
 Affinity change, (412) 257
 Affinity chromatography, (408) 285
 Affinity label, (417) 267
 Affinity purification, (402) 62
AFG3, (412) 410
 Aggregation, (401) 43; (405) 224
 Aggression, (406) 106
 Aging, (406) 136; (407) 347; (410) 467; (412) 629; (417) 13
 Agonist binding site, (408) 135
 Agonistic behavior, (406) 106
 AH site, (405) 363
 AIDS, (410) 145, 324; (414) 603
 Akt or RAC-protein kinase, (410) 493
 Alanine, β -, (400) 131
 Alcohol dehydrogenase, (405) 26; (413) 191
 Alcohol dehydrogenase class III, (409) 221
 Alcohol metabolism, (405) 26
 AlcR, (408) 235
 Aldehyde, (412) 643
 Aldehyde dehydrogenase, (416) 99
Aldh1, (407) 225
 Alginate oligosaccharide, (408) 43
 Alkaline phosphatase, (403) 203; (406) 310; (409) 333; (420) 112
 Alkyldihydroxyacetonephosphate synthase, (420) 205
*O*⁶-Alkylguanine-DNA alkyltransferase, (407) 333
 Allergen, (407) 207; (410) 293
 Allergenic protein, (400) 103
 Allophycocyanin, (410) 428
 Allopolyploidy, (400) 2
 Allopurinol, (409) 265
 Allosteric regulation, (409) 86
 Allostery, (407) 1
 Alternative oxidase, (411) 110; (415) 87
 Alternative splicing, (404) 294; (412) 379; (413) 21, 489; (414) 140; (416) 312
Alu, (417) 1

- Alu element, (419) 121
 Aluminium, (400) 51
 Aluminium fluoride, (408) 315
 Alveolate, (413) 333
 Alzheimer, (417) 163
 Alzheimer's disease, (402) 95; (403) 230; (405) 65; (408) 105; (409) 57; (411) 183, 369; (412) 341, 397, 578; (415) 303; (416) 90, 117; (417) 249; (418) 162; (420) 43
 Amidohydrolase, (403) 263; (407) 105
 Amine oxidase, (408) 241
 Amino acid, (407) 320; (414) 397
 Amino acid conjugates of jasmonic acid, (414) 197
 Amino acid replacement, (411) 128
 D-Amino acid replacement, (415) 196
 Amino acid sequence, (400) 103; (402) 17, 167; (406) 216; (407) 207; (410) 275, 293, 443; (413) 174; (418) 43
 Amino acid sequence homology, (404) 115
 Aminoacylation, (420) 139
 Aminoacyl-tRNA synthetase, (411) 123
 L-δ-(α-Aminoadipoyl)-L-cysteinyl-D-valine, (405) 191
 δ-L-α-Aminoadipyl-L-cysteinyl-D-valine, (414) 74
 Aminoglycoside, (419) 271
 p-Aminohippurate, (417) 287
 Aminopeptidase N, (401) 227; (414) 303
 Amino-thiazole, (409) 343
 Aminotriazole, (416) 381
 Ammonia, (410) 213
 Ammonium pyrrolidinedithiocarbamate, (418) 175
 AMP-activated protein kinase, (403) 254; (409) 452; (411) 265; (413) 115
 Amphipathic helix, (417) 135
 Amphiphysin, (413) 319; (414) 308
 AMV reverse transcriptase, (410) 423
 α-Amylase, (409) 109; (416) 221
 β-Amyloid, (412) 341; (417) 163, 249
 Amyloid, (418) 297
 Amyloid β peptide, (405) 65; (409) 411
 Amyloid β-protein, (403) 230; (420) 43
 β-Amyloid peptide, (402) 95
 Amyloidogenesis, (416) 117; (418) 297
 Amyloidosis, (406) 49; (418) 297
 Amylovoran synthesis, (400) 252
 Amyotrophic lateral sclerosis, (414) 365
 Anaerobic fungi, (408) 147
 Anaerobic oxidation, (403) 10
 Anaerobiosis, (404) 272
 Analgesia, (412) 35
 Analog, (412) 456
 Analogue, (405) 65; (414) 271
 Analytical ultracentrifugation, (412) 563; (416) 265
 Anandamide, (403) 263; (415) 313
 Anaphylatoxin C5a receptor, (406) 305
 Anchorage-dependent growth, (411) 317
 Androgen, (405) 328
 Androgen receptor, (407) 211; (412) 355
 Angiogenesis, (409) 442; (414) 419; (418) 6; (420) 129
 Angiogenin, (404) 1
 Angiotensin, (413) 486
 Angiotensin II, (400) 119; (412) 86
 Angiotensin-converting enzyme, (406) 301
 Angiotensinogen, (412) 285
 8-Anilino-1-naphthalenesulfonic acid, (413) 429
 Anion channel, (414) 99
 Anion permeability, (417) 395
 Anionic phospholipid, (403) 203
 Anisotropy, (416) 35
 Ankyrin repeat, (401) 127; (406) 147
 Annelid polychaete, (417) 48
 Annexin, (410) 229; (413) 185
 Annexin IV, (405) 107
 Annexin V, (416) 217
 Annexins IV and VI, (409) 300
 Anorexia, (405) 237
 Antagonism, (417) 141
 Antagonist, (405) 237
 Antenna, (414) 595
 Anthocyanin, (401) 78
 Anti-apoptotic gene, (411) 67
 Antibacterial peptide, (415) 64; (417) 135
 Antibacterial peptide cecropin, (414) 268
 Antibacterial target, (409) 357
 Antibiotic, (406) 223
 Antibiotic resistance, (419) 211
 Antibody, (405) 224; (409) 437; (410) 313; (412) 578; (414) 135, 521; (417) 239
 Antibody affinity, (415) 289
 Antibody engineering, (407) 289; (414) 33; (415) 289; (418) 106
 Antibody library, (414) 7
 Antibody to cardiolipin, (413) 231
 Antibody to DNA, (413) 231
 Anticancer agent, (400) 127
 α₁-Antichymotrypsin, (405) 99
 Anti-cortisol, (405) 224
 Anti-estrogen, (410) 87
 Antifreeze protein, (402) 17; (412) 241
 Antigen complex, (409) 437
 Antigen presentation, (409) 91
 Antigen processing, (416) 353
 Antigenic factor, (414) 338
 Anti-HIV antibody, (414) 537
 Anti-inflammatory, (402) 85
 Antiluminal uptake, (400) 131
 Antimalarial, (402) 236
 Antimicrobial, (400) 168; (411) 173
 Antimicrobial peptide, (400) 158, 289; (403) 208; (405) 200; (410) 490; (412) 144; (413) 45; (414) 27; (416) 273; (417) 135, 311
 Antimicrobial protein, (400) 289
 Anti-neutrophil cytoplasmic antibody, (408) 187
 Anti-NO synthase antibodies, (410) 319
 Antinociception, (405) 285
 Antioxidant, (401) 167, 230; (405) 186; (408) 297; (409) 105, 223, 265; (410) 254; (412) 70; (413) 236, 289, 467; (417) 349
 Antioxidant enzyme, (407) 32; (418) 247
 Antioxygen defence, (415) 87
 Anti-peptide antibody, (402) 53; (404) 211
 Antiporter, (412) 337
 α₁-Antiproteinase, (414) 497
 Antisense oligonucleotide, (406) 179
 Antisense RNA, (411) 239
 Antisense-oligodeoxynucleotides, (409) 347
 Anti-steroid antibody, (414) 7
 Antitermination, (415) 221
 Antithrombin, (412) 65
 α-1 Antitrypsin, (413) 50
 Antitumor action, (415) 308
 Antitumor activity, (416) 230
 AP-1, (400) 9; (409) 351; (410) 191; (416) 81, 339
 Ap₃A, (408) 177
 Ap₄A, (408) 177
Apis mellifera L., (414) 595
 APO-I, (402) 256
 Apo1/Fas, (402) 36
 Apolipoprotein, (402) 17; (411) 7; (415) 217; (416) 265
 Apolipoprotein (a), (404) 95
 Apolipoprotein A-I, (404) 105; (416) 377
 Apolipoprotein E, (416) 161
 Apomyoglobin, (417) 92
 Apoptosis, (400) 15, 127, 285; (401) 148; (402) 36, 256; (403) 273; (404) 6, 27, 249, 307; (406) 189, 301; (407) 97; (408) 16, 141, 225; (409) 17, 177, 207, 365; (410) 73, 145, 285, 297, 347; (411) 63, 77, 87, 260; (412) 102, 153, 603; (413) 99, 124, 147, 401; (414) 14, 253, 552, 603; (415) 11, 29, 33, 160; (416) 113, 243, 324, 329; (417) 61, 235, 360, 379, 385; (418) 179, 282; (419) 166, 276
 Apoptosis-inducing factor, (410) 373
 APP, (415) 303
 AppY, (404) 272
Aquifex, (406) 142
Arabidopsis, (403) 303; (407) 361
Arabidopsis thaliana, (411) 206; (412) 446; (413) 16, 309; (416) 156; (418) 229, 351; (419) 69, 206
 Arachidonate cascade, (410) 470
 Arachidonic acid, (400) 136; (406) 93; (408) 81; (409) 17; (413) 314; (414) 159; (415) 325; (416) 269; (419) 117; (420) 28
 Arachidonic acid metabolism, (407) 343
 A-Raf kinase, (403) 197, 200
 Arc, (404) 272

- ArcB anerobic sensor, (408) 337
 Archaea, (404) 263; (417) 223
 Archaeosine, (416) 93
 Arcuate nucleus, (402) 185
 ARG-11 gene, (410) 447
 Argentine, (409) 396
 Arginine, (409) 361
 Arginine biosynthesis, (410) 447
 Arginine guanidino group, (405) 16
 ARIA expression, (418) 275
 Aromatase inhibitor, (409) 396
 Aromatic alcohol, (413) 467
 Aromatic L-amino acid decarboxylase, (412) 439
 Aromatic metabolism, (414) 293
 Aromatic uptake, (414) 293
 Arrestin, (411) 12; (415) 268
 Arrhythmia, (414) 435
 Artery, (403) 40
Arthomyces ramosus, (412) 107
 Ascites tumor cell, (409) 86
 Ascorbate peroxidase, (410) 195
 Ascorbic acid, (405) 186; (412) 61
AsiA, (411) 60
 Asn229Asp mutant of thymidylate synthase, (409) 385
 Asparaginase, (412) 149
 L-Asparagine metabolism, (412) 149
 Aspartate, (412) 179
 Aspartate receptor, (414) 327
 Aspartate/glutamate antiporter, (412) 179
 Aspartic protease, (401) 218
 Aspirin, (417) 349
 Assembly, (418) 189
 Assembly of membrane proteins, (412) 75
 Association, (415) 183
 Astaxanthin, (404) 129
 Asteraceae, (402) 85; (409) 396
 Astrocyte, (411) 107; (412) 30; (413) 477; (415) 271
 Atherogenesis, (408) 191
 Atherosclerosis, (401) 53; (406) 37; (409) 177, 351; (412) 86; (414) 541, 549; (419) 215
 AT-hook peptide motif, (400) 193
 ATP, (403) 191; (406) 56; (408) 261; (409) 232, 300
 ATP analog, (419) 227
 ATP binding site, (419) 107
 ATP hydrolysis, (401) 11; (406) 201
 ATP secretion, (418) 39
 ATP sensitive, (412) 121
 ATP synthase, (411) 97
 ATP synthase α -chain, (407) 25
 ATP/ADP antiporter, (412) 179
 ATP/ADP exchange, (419) 244
atp6, (413) 40
 ATPase, (400) 31, 345; (404) 263, 269; (407) 173, 235; (412) 57, 521; (413) 344; (419) 244
 ATPase activity, (410) 180
 ATP-binding domain, (413) 211
 ATP-binding site, (419) 227
 ATP-dependent potassium channel (K_{ATP} channel), (411) 301
 ATP-dependent protease, (412) 57
 ATR-FTIR spectroscopy, (412) 39
 Atrial natriuretic peptide, (414) 263, 377; (419) 255
 A-type K^+ channel, (420) 47
 A-type potassium channel, (400) 215
 Autoantibody, (405) 42; (418) 23
 Autoantigen, (412) 439
 Autocatalysis, (407) 1
 Autoimmune chronic active hepatitis, (412) 439
 Autoimmune diabetes mellitus, (416) 364
 Autoimmune polyendocrine syndrome type I, (412) 439
 Autolysis, (405) 241
 Autoradiography, (404) 185
 Autoregulation, (416) 317
 Auxilin, (402) 73
 Auxin, (419) 131
 Auxin sensitivity, (409) 273
 Avian myeloblastosis virus DNA, (414) 393
 Avian smooth muscle, (405) 315
avrD, (415) 40
 Axonal transport, (404) 221
 Azide, (409) 137
Azoarcus, (404) 143
Azotobacter vinelandii, (414) 369; (416) 171
 B' subunit, (408) 52
 B9 hybridoma, (408) 182
 Bacillus, (413) 194
Bacillus intermedius, (404) 241
Bacillus schlegelii, (412) 501
Bacillus subtilis, (416) 171
Bacillus thuringiensis, (404) 148; (410) 397; (412) 270; (414) 303, 313
Bacillus thuringiensis subsp. *thompsoni*, (412) 587
 Backbone branching, (412) 637
 Bacterial aspartic proteinase, (409) 357
 Bacterial blight of rice, (415) 125
 Bacterial ice nucleation, (414) 590
 Bacterial motility, (409) 37
 Bacterial phosphotransferase system, (404) 45
 Bacterial polysaccharide structure, (411) 221
 Bacterial reaction center, (409) 343
 Bacterial toxin, (412) 270
 Bactericidal activity, (415) 285
 Bacteriocin, (410) 275
 Bacteriophage T4, (415) 75
 Bacteriorhodopsin, (407) 285; (409) 137; (418) 239
 Bacteriorhodopsin intermediate, (405) 125
 Baculovirus, (419) 124
 Baculovirus expression, (412) 321
 Baculovirus expression system, (400) 65; (408) 109
 Bafilomycin, (404) 61
 Ballistic transfection, (414) 319
 Band 3 phosphorylation, (406) 126
 Band-shifting, (418) 251
 Bark lectin, (403) 294
 Barley, (408) 25
 Barnase, (405) 47
 Barotolerance, (416) 1
 Basal, (412) 597
 Basal lamina, (415) 33
 Base exchange, (405) 163
 Base propenal, (414) 457
 Base triplet, (416) 86
 Basement membrane, (411) 296; (412) 211
 Basic amino acid permease, (408) 89
 Basic fibroblast growth factor, (412) 21
 Basic nigrin b, (413) 85
 Basic protein, (418) 363
 Basidiomycete, (412) 281, 370
 Bax, (415) 29
 BchH protein, (407) 337
 Bcl-2, (400) 15; (403) 273; (411) 63, 260; (412) 603; (419) 276
 bcl-2, (400) 127
bcl-2, (406) 31
bcl-x, (415) 11
 Bcl-X_L, (407) 97
 Bcl-x_L, (415) 29
 α B-Crystallin, (409) 101
bd oxidase, (414) 369
 Beaded filaments, (413) 371
 Benzhydroxamic acid, (412) 107
 Benzophenone 3'-hydroxylase, (420) 143
 Benzophenone synthase, (420) 143
p-Benzoylphenylalanine, (413) 1
 Benzyl sulfide, (412) 281
 Bergmann glia, (405) 245
 Betaine, (410) 201
 Bicarbonate, (418) 243
 Bi-component cytolysin, (410) 333; (415) 96
 Big endothelin, (420) 103
 Big endothelin analogue, (420) 103
 Bile salt activation, (405) 369
 Bile salt-stimulated lipase, (405) 369
 Binding, (404) 185; (409) 385
 Binding assay, (414) 182
 Binding change model, (413) 55
 Binding kinetics, (403) 239
 Binding protein, (416) 207

- Binding-protein-dependent transport systems, (413) 211
 Binuclear iron protein, (400) 259
 Bioactive peptide, (402) 99
 Bioactivity, (404) 173
 Bioavailability, (418) 152
 Biochemical characterization, (400) 188
 Biochemistry, (412) 506
 Biodiversity, (419) 281
 Bioenergetics, (407) 285; (414) 485
 Biogenic amine, (403) 236
 Biomechanics, (413) 424; (414) 485
 Biomembrane, (410) 338
 Bioremediation, (412) 281
 Biosensor, (416) 259
 Biosynthesis, (416) 153
 Biotin, (405) 1
 Biotin biosynthesis, (419) 206
 Biotin synthase, (419) 206
 Birch profilin, (411) 291
 Bitistatin, (416) 197
 Bivascular liver perfusion, (406) 119
 BK channel, (415) 67
 Bladder, (404) 61
 Blood groups MN, (406) 296
 Blood plasma, (420) 129
 Blood vessel, (405) 26
 Blood–brain barrier, (400) 131; (401) 53; (419) 99
 Blot overlay, (410) 153
 Bluescript II KS⁺ plasmid, (409) 151
 B-lymphocytes, (406) 205
 Boar seminal plasma pB1 (pAIF-1), (407) 201
 Body weight, (405) 237
 Bombesin, (415) 71
 Bond rotation rate, (405) 16
 Bonding of mRNA to protein, (414) 405
 Bone, (411) 145
 Bone formation, (404) 319
 Bone resorption, (410) 297
Botryodiplodia theobromae, (407) 105
 Botulinum neurotoxin C1, (419) 13
 Botulism, (409) 339; (418) 1
 Bound water, (405) 263
 Bovine leukemia virus, (406) 205
 Bovine pituitary extract, (408) 43
 Bovine rod outer segment, (415) 268
 Bovine serum albumin, (417) 375
 Bovine spongiform encephalopathy, (416) 161
 Bovine tryptase, (408) 85
 Bowman-Birk inhibitor, (409) 121
 Bowman-Birk soybean inhibitor, (404) 245
Bradyrhizobium japonicum, (406) 249
 Brain, (402) 12; (412) 433; (419) 99
 Brain capillary endothelial cell, (400) 131
 Brain mitochondria, (410) 467
 Brain natriuretic peptide, (400) 177; (414) 377
 Brain-central nervous system, (413) 157
Brassica juncea, (404) 216
Brassica napus, (410) 195
 BRCA1, (400) 25
 Breast cancer, (400) 75; (410) 87, 347
 Brefeldin A, (404) 75; (411) 133
 Bromocriptine, (401) 117; (406) 33
 Bromoenol lactone, (403) 263
 Brown adipocyte, (411) 83; (416) 324
 Brown adipocyte (neuropeptides, norepinephrine), (407) 73
 Brown adipose tissue, (410) 383; (412) 111; (418) 200
 Brown fat mitochondria, (417) 75
 Brush-border membrane, (407) 127; (411) 7
 Bruton's tyrosine kinase, (413) 205
 Btk, (413) 205
 B-type endothelin receptor, (417) 208
 B-type natriuretic peptide, (414) 263
Buchnera aphidicola dhiaQ, (400) 94
 Buckwheat trypsin inhibitor, (400) 103
 Budding pattern, (417) 21
 Bumetanide, (420) 191
burdock, (413) 7
 Buthionine sulfoximine, (416) 381
 C/EBP α , (401) 267
 C/EBP δ , (415) 217
 C1q, (418) 111
 C3H10T1/2 mouse fibroblast, (412) 420
¹³C isotopomer analysis, (412) 131
¹³C-NMR, (402) 157
¹³C-NMR-spectroscopy, (400) 271
 C₁ photosynthesis, (403) 5; (413) 169
 C₁ plant, (413) 169
 C₇-structure, (417) 97
 C6 glioma cell, (400) 163; (408) 33
 Ca regulation, (412) 94
 CA074, (419) 231
 Ca²⁺, (418) 131; (419) 13, 137
 Ca²⁺ binding, (413) 359
 Ca²⁺ binding protein, (413) 185
 Ca²⁺ current, (411) 71
 Ca²⁺ efflux, (419) 255
 Ca²⁺ influx, (407) 211; (408) 115
 Ca²⁺ mobilization, (404) 56
 Ca²⁺ release, (405) 104
 Ca²⁺ release channel, (405) 385; (412) 223
 Ca²⁺ signaling, (414) 89
 Ca²⁺-activated K⁺ conductance, (402) 259
 Ca²⁺-ATPase, (406) 201; (409) 292; (412) 592
 Ca²⁺-binding protein, (417) 153
 CAAX box, (403) 95
 Cachexia, (405) 237
 Cadherin, (417) 405
 Cadmium, (404) 216; (420) 69
 Cadmium stress, (416) 339
Caenorhabditis elegans, (406) 189; (410) 29; (417) 177
 Caffeic acid, (405) 186
 Caffeine, (405) 385, 390
 Caged reagent, (405) 81
 c-Akt, (410) 3
 Calcein, (403) 213
 Calcineurin, (402) 227; (418) 224
 Calcitonin gene-related peptide, (413) 462
 Calcium, (400) 163, 324; (402) 241, 259; (403) 51; (406) 56; (407) 111; (409) 131, 300, 361; (410) 403; (412) 79, 309, 568; (414) 343; (417) 163, 405; (419) 201
 Calcium agonist, (413) 124
 Calcium and calmodulin-dependent protein kinase III, (407) 21
 Calcium- and pH-dependent conformational change, (409) 1
 Calcium binding, (405) 241; (414) 557; (416) 217
 Calcium channel, (407) 230, 309; (414) 480; (418) 39; (419) 259; (420) 74
 Calcium channel current, (412) 465
 Calcium homeostasis, (403) 1; (412) 559
 Calcium oscillation, (405) 390
 Calcium release channel, (417) 157
 Calcium signaling, (407) 230
 Calcium signalling, (400) 58
 Calcium-activated potassium channel, (415) 299
 Calcium-binding property, (419) 215
 Calcium-binding protein, (401) 89; (402) 167; (408) 251
 Calf thymus, (417) 227
 Calmodulin, (402) 227; (403) 75; (407) 111; (408) 271; (414) 55
 Calpain, (404) 23; (406) 17; (412) 433; (417) 163
 Calpastatin, (412) 433
 Calpeptin, (404) 23
 Calponin, (413) 441
 Calreticulin, (405) 181
 CalyculinA, (413) 147
 CaM kinase II, (409) 375
 Camel, (414) 521
 cAMP, (400) 75, 163; (407) 177; (408) 301; (409) 253; (413) 104; (420) 147
 cAMP signal, (406) 139
 cAMP-dependent kinase, (401) 171
 cAMP-dependent protein kinase, (403) 254; (414) 55; (420) 33
 cAMP-sensitive channel, (408) 115
 Camptothecin, (406) 151; (411) 215
 Canalicular transport, (406) 75
Canavalia brasiliensis, (405) 114
 Cancer, (400) 25; (408) 121

- Cancer cell, (406) 175
 Cancer related gene, (419) 181
Candida, (414) 338
Candida albicans, (408) 89; (416) 203
Candida utilis, (416) 51
 Candidosis, (400) 80
 Cannabinoid, (403) 263; (411) 287
 Cannabinoid receptor, (415) 313
 Cantharidin, (416) 230
 Canthaxanthin, (401) 262
 Capacitance measurement, (415) 1
 Capacitative Ca^{2+} entry, (403) 191
 Capacitative calcium entry, (413) 243; (415) 335
 Capsid, (415) 231
 Carbachol, (408) 261
 S-Carboxysteine-lysine salt monohydrate, (404) 11
 Carbohydrate binding, (403) 294
 Carbohydrate recognition domain, (412) 388
 Carbohydrate-binding protein, (414) 79
 Carbon monoxide geminate kinetics, (414) 213
 Carbonic anhydrase, (420) 63
 Carboxyatractylate, (412) 179
 γ -Carboxyglutamic acid, (407) 243
 Carboxyl methylation, (418) 179
 γ -carboxylation, (408) 306
 Carboxylester lipase, (405) 369
 Carboxypeptidase A, (400) 336
 Carboxypeptidase A2, (420) 7
 Carboxypeptidase D, (408) 195
 Carboxypeptidase E, (404) 19; (408) 195; (416) 45
 Carboxypeptidase H, (408) 195
 Carboxy-terminal region, (410) 443
 Carcinogenesis, (413) 65
 Cardiac, (417) 43
 Cardiac fibroblast, (416) 107
 Cardiac glycosides, (405) 5
 Cardiac hypertrophy, (408) 221
 Cardiac ion channel, (412) 121
 Cardiac muscle, (408) 71
 Cardiac myocyte, (403) 23
 Cardiocyte, (411) 71
 Cardiolipin, (406) 136
 Cardiomyocyte, (416) 107; (419) 255
 Cardiovascular disease, (414) 549
 Carnitine deficiency, (408) 221
 Carnitine palmitoyltransferase I, (409) 401
 Carnitine system, (409) 401
 β -Carotene, (401) 262; (404) 175
 Carotenoid, (400) 271; (401) 262; (404) 129; (417) 261; (418) 91
 Carotenoid biosynthesis, (403) 10
 Cartilage, (415) 212
 Cartilage matrix protein, (413) 129
 CAS, (419) 249
 Casein, (414) 171
 Casein kinase, (402) 227; (412) 495
 Casein kinase 2, (416) 164
 Casein kinase II, (403) 313; (410) 391
 Casein kinase II phosphorylation, (400) 45
 Caspase, (403) 61; (406) 189; (409) 207; (412) 603; (414) 552; (417) 360
 Caspase-1, (417) 379
 Caspase-1 inhibitor (YVAD-CHO), (417) 379
 Caspase-3, (418) 162
 Casting selection, (417) 71
 CAT activity, (414) 187
 Catabolism, (406) 23
 Catabolite inactivation, (402) 251
 Catabolite repression, (402) 251
 Catalase, (404) 27; (416) 286
 Catalytic activity, (408) 85
 Catalytic antibody, (407) 280, 289
 Catalytic carboxylate, (413) 211
 Catalytic domain, (413) 339
 Catalytic mechanism, (412) 217; (414) 359; (416) 93
 Catalytic monomer, (409) 449
 Catalytic site, (404) 15; (413) 1; (417) 119
 Catalytic triad, (403) 259; (413) 191
 Catechin, (401) 230
 Catechol 1,2-dioxygenase, (416) 61
 Catecholamine, (409) 131; (417) 184
 Cathelicidin, (417) 311
 Cathepsin, (401) 218
 Cathepsin B, (412) 453, 551; (419) 121, 231
 Cathepsin D, (413) 379
 Cathepsin L, (407) 47; (412) 453
 Cathepsin W, (405) 253
 Cation transport, (419) 107
 Cationic cholesterol, (408) 232
 Cationic current, (418) 101
 Cationic lipid, (409) 188; (414) 187; (415) 81; (417) 199
 Cationic liposome, (400) 233; (408) 232
 Cauliflower, (407) 361
 Caveola, (415) 139
 Caveolae, (405) 356
 CBP, (413) 60; (414) 111; (415) 258
 cca3 cDNA cloning, (406) 147
 CCH1, (419) 259
 CCL1, (411) 378
ccm gene, (410) 351
 c-Crk, (409) 195
 CCT, (402) 53
 CD13, (412) 53
 CD15 expression, (415) 25
 CD2, (403) 239
 CD26, (410) 343
 CD3/TCR complex, (413) 75
 CD4⁺ lymphocyte, (414) 1
 CD4⁺ Th1 clone, (411) 87
 CD40 ligand, (414) 444; (417) 301
 CD48, (403) 239
 CD54, (406) 83
 CD95, (409) 17
 cdc2 kinase, (401) 171
 Cdc42, (408) 315
 CDC48, (404) 263
 CdCl₂-treatment, (409) 211
 CDK inhibitor, (401) 127
 Cdk inhibitor, (411) 1
 Cdk2, (410) 187
 CDK5, (402) 73
 cDNA, (403) 221; (404) 283; (405) 129; (406) 97; (409) 426; (410) 490; (412) 144, 415; (416) 281; (418) 210
 cDNA cloning, (400) 183; (401) 213, 252; (402) 162, 167; (404) 91; (405) 253; (408) 171; (409) 277; (411) 12, 239, 296; (414) 381; (417) 157; (418) 23
 cDNA expression, (412) 290
 cDNA nucleotide sequence, (407) 153
 cDNA sequence, (408) 25
 cDNA cloning, (400) 215
¹³Cd-NMR, (412) 301
 Cecropin, (412) 144; (419) 83
 Ced-4, (402) 256
 α -Cell, (413) 119
 Cell adhesion, (402) 21; (410) 68; (416) 212; (417) 405
 Cell adhesion molecule, (418) 310
 Cell aggregation, (418) 310
 Cell compartmentation, (414) 177
 Cell culture, (414) 117
 Cell cycle, (400) 127; (402) 141; (404) 6; (405) 104; (409) 74; (410) 11, 187, 477; (412) 91, 446; (418) 101, 229
 Cell cytotoxicity, (405) 312
 Cell death, (403) 213; (413) 231
 Cell density, (404) 100
 Cell differentiation, (400) 275; (415) 275
 Cell division, (414) 402
 Cell fraction, (414) 362
 Cell fractionation, (407) 361
 Cell growth, (413) 462
 Cell growth inhibition, (413) 135
 Cell imaging, (416) 175
 Cell membrane, (405) 5
 Cell migration, (408) 121; (411) 322
 Cell morphology, (413) 99
 Cell nucleus, (414) 89
 Cell proliferation, (402) 213; (407) 73; (409) 33
 Cell regulation, (420) 57
 Cell rounding, (411) 317

- Cell signaling, (402) 213
 Cell spreading, (419) 95
 Cell surface glycoconjugates, (409) 347
 Cell suspension, (407) 357
 Cell transformation, (404) 227; (417) 17
 Cell volume, (400) 163; (417) 101
 Cell-free protein synthesis, (414) 362
 Cellobiohydrolase I, (405) 111
 Cell-to-cell transport, (400) 201
 Cellular entry, (416) 297
 Cellular localization, (408) 292
 Cellular prion protein, (413) 277
 Cellular refractoriness, (408) 345
 Cellular regulation, (408) 75
 Cellular retinol binding protein, (402) 116
 Cellular retinol binding protein II, (402) 116
 Cellular signalling, (403) 95
 Cellular transformation, (403) 35
 Cellular uptake of peptides, (415) 196
 Cellulase, (414) 359
 Cellulose binding domain, (407) 291
 Cellulose biogenesis regulation, (416) 207
 Cellulysin, (416) 143
 Centaurin- α , (405) 229
 Central nervous system, (411) 225
 Centrifugation, (410) 499
 Centrosome, (414) 135
 Centrosomin, (420) 125
 Ceramide, (400) 15, 350; (401) 148; (405) 55; (414) 475; (415) 271; (416) 153; (418) 179
 Cerebellar granule cell, (408) 131
 Cerebellum, (418) 195
 Cerebrospinal fluid, (416) 161
 Ceruloplasmin, (411) 93
c-fos, (406) 93; (407) 7; (417) 283; (419) 201
c-Fos, (416) 81
c-fos gene expression, (416) 113
c-fos serum response element, (415) 325
 CFTR, (405) 200
c-Fyn, (409) 195
 cGMP, (414) 140
 cGMP-binding, cGMP-specific phosphodiesterase, (408) 345
Chaetopterus variopedatus, (417) 48
 α Chain, (417) 65
 Channel repriming, (416) 11
 Channeling (rabbit liver), (407) 13
 Chaperone, (411) 43; (416) 117, 369; (417) 321
 Chaperone protein, (416) 139
 Chaperone-like activity, (409) 101
 Chaperonin, (405) 195; (413) 339
 CHAPS, (419) 45
 Characterization, (408) 62; (414) 105
 Charge transfer band, (409) 216
 Checkpoint in M phase, (406) 267
 Chelator, (403) 213
 Chelerythrine, (412) 9
 Chemical modification, (402) 33; (414) 359; (420) 171
 Chemical sequencing, (413) 215
 Chemical shift index, (415) 145
 Chemical synthesis, (412) 456
 Chemical warfare agent, (412) 281
 Chemically modified lipoprotein, (401) 53
 Chemically modified tetracyclines (CMT), (410) 259
 Chemokine, (400) 329; (414) 221
 β -Chemokine, (410) 301
 Chemokine receptor, (400) 329
 Chemokinesis, (409) 37
 Chemostat, (410) 235
 Chemotaxis, (408) 211; (410) 39; (414) 327
 Chemotherapeutic drug, (417) 360
 Chemotherapy, (409) 67, 287; (412) 318; (415) 64
 CheY response regulator, (408) 337
 Chick cerebellum, (406) 114
 Chick embryo, (417) 345
 Chicken, (416) 291
 Chilling, (403) 5
 Chimera, (413) 405
 Chimeric analog, (414) 480
 Chimeric gene, (413) 40
 Chimeric neuropeptide, (417) 333
 Chimeric receptor, (401) 185; (415) 119
 Chimeric RyR, (417) 157
 Chinese hamster ovary cell, (412) 290
 Chitinase, (411) 161
 Chitosanase, (411) 346
Chlamydomonas, (416) 65
Chlamydomonas reinhardtii, (400) 293; (403) 15
 Chloramphenicol acetyl transferase (CAT), (413) 92
 Chloride uniport, (408) 166
 Chloroacetaldehyde, (412) 157
 8-Chloro cAMP, (400) 75
 Chlorogenic acid, (405) 186
 Chlorophenoxyalkanoic herbicide, (407) 69
 Chlorophyll, (402) 151
 Chlorophyll *d*, (410) 428, 433
 Chlorophyll fluorescence, (410) 433
 Chloroplast, (401) 143; (408) 201, 206; (412) 375; (413) 21; (414) 527
 Chloroplast ATP synthase, (419) 23
 Chloroplast coupling factor 1, (419) 23
 Chloroplast envelope membrane, (416) 57
 Chloroplast enzyme, (408) 30
 Chloroplast phosphatase, (411) 236
 Chloroplast protein import, (403) 15
 Chloroquine, (402) 236
 ChM-I, (415) 321
 CHO-K1 cell, (414) 135
 Cholera toxin, (401) 104
 Cholesterol, (400) 233; (401) 68; (411) 7; (414) 507
 Cholesterol esterase, (405) 369
 Cholesterol metabolism, (401) 53
 Cholesterol oxidase, *Brevibacterium sterolicum*, (400) 247
 Cholesterol side-chain cleavage, (409) 396
 Choline acetyltransferase, (410) 175
 Cholinesterase, (407) 261
 Chondroitin sulfate, (403) 154
 Chondroitin-4-sulphate, (410) 413
 Chondromodulin-I, (406) 310
 Chondromodulin-II, (406) 310
 Chromaffin cell, (410) 229; (418) 39
 Chromaffin granule, (414) 349
 Chromatin, (400) 37; (403) 186; (406) 56; (415) 91
 Chromatin fragmentation, (414) 289
 Chromatin structure, (409) 74
 Chromogenic assay, (412) 295
 Chromogenic substrate hydrolysis, inhibition, (408) 62
 Chromogranin A, (404) 87
 Chromogranin B, (406) 259
 Chromosomal localization, (402) 162
 Chromosomal protein, (414) 514
 Chromosomal translocation, (401) 109
 Chromosome, (409) 452
 Chromosome 3p, (402) 81
 Chromosome rearrangement, (413) 197
 Chronic lymphocytic leukemia, (406) 31
 Chymase, (406) 301; (412) 86
 Chymostatin, (414) 576
 Chymotrypsin, (420) 107
Cichorium intybus, (400) 355
CIFI(GGSI/TPSI), (414) 353
 Cilium, (412) 325
Ciona intestinalis, (408) 171
 Circadian clock, (411) 245
 Circular dichroism, (402) 67; (405) 378; (406) 56, 151, 184; (407) 243, 303, 333; (409) 183; (411) 215, 335; (412) 563, 625; (415) 49; (416) 72, 265
 Circular dichroism spectroscopy, (413) 277; (416) 217
 Circular permutation, (414) 243
 Cis-Golgi network, (404) 75
c-Jun, (416) 81
c-jun gene expression, (416) 113
c-Jun N-terminal kinase, (420) 201
c-Jun-amino-terminal kinase, (408) 289
 CK2 β subunit, (403) 197, 200; (410) 391
 CK2 α subunit mutant, (410) 391
 Cks1At, (412) 446
 Cl⁻ channel, (404) 11

- Cl⁻ transport, (418) 239
 CL316243, (402) 246
Cladosporium fulvum, (404) 153
 Class IV chitinase, (419) 69
 Clathrin, (402) 57; (413) 319
 Clavanin, (410) 490
cis-Cleavage, (413) 299
trans-Cleavage, (413) 299
 Cleavage specificity, (411) 161
 Clofilium, (414) 435
 Cloned Ca²⁺ channel, (408) 261
 Cloning, (400) 211; (404) 87; (410) 39; (412) 86; (414) 140; (417) 65
 Clostridium, (418) 1
 Cluster analysis, (412) 39
 C'-methyl analogue of UTP, (400) 263
 C'-methyl analogues of UpA, (404) 169
 cMOAT, (402) 1
 c-Myb, (415) 258
 c-Myc, (414) 465
c-myc gene expression, (416) 113
 CO₂ exchange, (416) 65
 Co-activator, (413) 60
 CoA-ester hydrolase, (405) 209
 Coagulation factor IXa, (412) 295
 Coat protein, (402) 57
 Coated pit, (413) 319
 Coated vesicle, (413) 395; (414) 177
 Coatomer, (413) 395
 CoA-transferase, (405) 209
 Cobalamin, (409) 421
 Cobalt, (401) 15
 Co-crystallization, (405) 373, 394
 Codon Adaptation Index, (414) 165
 Codon usage, (413) 333
 Coexistence, (401) 83
 Coexpression, (417) 33
 Cofactor distance, (414) 454
 Coiled-coil α -helix, (413) 129
 COL4A1, (405) 31
 COL4A2, (405) 31
 Colchicine, (404) 221
 Cold, (412) 111
 Cold acclimation, (410) 206
 Cold exposure, (402) 185
 Cold inactivation, (410) 206
 Cold stress, (414) 289
 Collagen, (404) 303; (414) 221
 Collagen IV, (405) 31
 Collagen morphogenesis, (412) 48
 Collagen receptor, (413) 255
 Collagen XVIII, (420) 129
 Collagenase, (410) 259; (413) 239; (417) 337
 Collagenase-1, (412) 453
 Collagen-like domain, (414) 182
 Collectin, (414) 387
 Colorectal carcinomas, (409) 347
Comamonas testosteroni N11, (409) 216
 Comparative sequence homology alignment, (414) 532
 Competitive inhibition, (407) 18
 Competitive reconstitution, (400) 37
 Complement, (405) 42; (412) 506; (418) 111
 Complementation, (403) 303
 Complex formation, (405) 277; (410) 333
 Complex I, (405) 345; (410) 467
 Complex with sulfate, (410) 502
 complexing inactivation, (412) 425
 Compound I, (411) 269
 Compound II, (411) 269
 Conantokin-T, (407) 243; (411) 19
 Concanavalin A, (406) 28; (412) 568
 Conditioned media factor, (404) 100
 Conductance, (405) 299
 Cone photopigment, (406) 279
 Confluency, (400) 304
 Confocal laser scanning microscopy, (406) 315; (410) 368
 Confocal microscopy, (405) 181; (406) 61; (409) 461
 Conformation, (406) 191; (410) 131; (417) 141
 Conformation of substrate, (404) 169
 Conformational analysis, (420) 179
 Conformational change, (402) 25; (404) 159; (411) 53; (418) 58
 Conformational energy calculation, (400) 263
 Conformational epitope, (414) 50
 Conformational preference, (419) 285
 Conformational transition, (410) 280
 Connectin, (401) 65
 Connecting peptide, (403) 287
 Connective tissue, (413) 239
 Connexin, (401) 271
 Connexin43, (419) 268
 ω -Conotoxin GIVA, (413) 462
 ω -Conotoxin MVIIA, (414) 480
 ω -Conotoxin MVIIC, (414) 480
 Consensus sequence, (414) 19
 Conserved enzyme, (416) 99
 Constitutive activity, (414) 323; (419) 171
 Constriction loop, (415) 317
 Contractility, (410) 68
Conus radiatus, (407) 85
 Convertase, (405) 68; (406) 205
 Cooperative kinetics, (413) 55
 Cooperativity, (407) 1; (408) 124; (409) 7; (410) 502
 Coordination type, (417) 153
 Copper, (404) 216; (406) 37; (409) 265; (411) 373; (412) 165
 Copper depletion, (412) 43
 Copper enzyme, (414) 281
 Copper ion, (400) 108
 Copper oxidation, (403) 154
 Copper resistance, (412) 165
 Coq3, (410) 219
 Co-response analysis, (418) 47
 Corpus luteum, (417) 385
 Correlation time, (413) 282
 Correlationspectroscopy, (401) 43
 Cortex, (410) 499
 Corticosteroid, (413) 436
 Cortisone, (416) 273
 COS cell, (414) 187
 COS-1 cell, (409) 333
 COS-7 cell, (405) 281
 Cotranscription, (409) 96
 Covalent modification, (413) 294
 Cow's milk allergy, (412) 515
 COX-2, (418) 175
 Cox6, (410) 219
 CPP32, (409) 177; (412) 153; (417) 360; (418) 162; (419) 49
 c-Raf, (414) 465
 Creatine kinase, (414) 253; (415) 183
 CREB, (410) 22
 CREM, (410) 22
 Creutzfeldt-Jakob disease, (416) 161; (417) 400
 CrmA, (400) 15
 Cross-link, (419) 63
 Cross-linking, (403) 143; (408) 151; (416) 6
 Cross-reactivity, (402) 167, 277; (412) 341, 515
 Cross-resistance, (400) 80
Crotalus adamanteus, (409) 151
 Crucifer, (403) 221; (405) 129
 Crustacea, (407) 153
 Cruzipain, (401) 259
 Cry1Aa, (410) 397
 CryIAb, (404) 148
 CryIM, (404) 148
 Cryo-transmission electron microscopy, (409) 188
Cryptocodium cohnii, (413) 333
 Cryptogin, (403) 149
 Crystal, (410) 165
 Crystal proteins, (412) 587
 Crystal structure, (405) 114; (410) 502; (411) 313; (414) 327; (415) 253
 α -Crystallin, (416) 369
 Crystallization, (401) 113; (403) 136; (406) 171; (409) 109; (412) 346; (415) 268
 Crystallography, (420) 7
 Csk, (406) 11
 c-Src, (410) 136
 C-terminal domain, (409) 74
 C-terminal region, (404) 51

- C-terminus, (414) 165
 C-type lectin, (412) 388; (414) 387
 Cu/Zn superoxide dismutase, (400) 108
 Cu²⁺-phenanthroline, (420) 107
Cucumis sativus, (406) 1
 Culture monolayer, (420) 175
 Cultured brown adipocytes, (406) 196
 Cultured fibroblast, (402) 223
 Curcumin, (417) 196
cut locus, (413) 7
 Cutaneous lipid, (401) 167
 Cyanelle, (410) 509
 Cyanide-resistant oxidase, (412) 265
 Cyanide-resistant respiration, (411) 110
 Cyanobacterium, (408) 201
Cyanophora paradoxa, (410) 509
 Cyclic ADP-ribose, (405) 104
 Cyclic AMP, (402) 198, 213; (410) 22; (417) 81; (418) 287; (419) 4
 Cyclic AMP inhibition, (407) 121
 Cyclic diguanylic acid, (416) 207
 Cyclic GMP, (409) 46; (410) 29
 2',3'-Cyclic nucleotide 3'-phosphodiesterase, (413) 260
 Cyclic peptide, (413) 70; (419) 166
 Cyclin G, (402) 73
 Cyclin-dependent kinase, (412) 446
 Cyclocreatine, (414) 253
 Cyclodextrin glycosyltransferase, (416) 221
 Cycloheximide, (412) 615; (416) 113; (418) 135
 Cyclolinopeptide A, (418) 224
 Cyclooxygenase, (409) 242; (410) 470; (413) 314; (418) 135; (419) 215
 Cyclophilin, (414) 69
 Cyclophilin A, (414) 84; (418) 224
 Cyclosporin A, (409) 361; (412) 173; (413) 354; (414) 84; (418) 131
 Cyclosporin A synthetase, (414) 532
Cynodon dactylon, (402) 167
CYP1(HAP1), (409) 96
 Cystathionine γ -synthase, (414) 492
 Cystatin, (412) 551
 Cysteine labeling, (411) 201
 Cysteine protease, (405) 253
 Cysteine proteinase inhibitor, (401) 259; (412) 551
 Cysteine-rich protein, (400) 168
 Cysteine-rich secretory protein, (420) 179
 Cysteine-rich region, (400) 226
 Cysteine-S-conjugate β -lyase, (408) 5
 Cystic fibrosis, (400) 341; (405) 200; (407) 303; (408) 225; (410) 180
 Cystic fibrosis transmembrane conductance regulator, (400) 341; (407) 303; (408) 225; (410) 180
 Cystine knot, (404) 153; (419) 191
 Cytochalasin D, (403) 191
 Cytochrome, (401) 153
 Cytochrome *aa₃*, (412) 43
 Cytochrome *b*, (404) 51
 Cytochrome *b₅*, (412) 610
 Cytochrome *b₅* reductase, (414) 571
 Cytochrome *b559*, (403) 283
 Cytochrome *b-562*, (410) 351
 Cytochrome *b₆/f*, (414) 585
 Cytochrome *b₆/f* complex, (408) 206
 Cytochrome *bc₁* complex, (412) 257
 Cytochrome *bd*, (416) 171
 Cytochrome *bo*, (416) 247
 Cytochrome *c*, (408) 201; (415) 29, 45; (418) 282
 Cytochrome *c* oxidase, (414) 414; (417) 75
 Cytochrome *c* oxidase subunit IV, (415) 294
 Cytochrome *c* synthesis, (410) 351
 Cytochrome *d*, (414) 369
 Cytochrome oxidase, (404) 143; (406) 136; (412) 75, 405, 410; (413) 333; (414) 281
 Cytochrome oxidase complex assembly, (418) 367
 Cytochrome P450, (412) 346; (414) 203
 Cytochrome P450 2B1, (416) 77
 Cytochrome P450 monooxygenase, (416) 269; (420) 143
 Cytochrome P-450cam, (415) 253
 Cytochrome P450IA2, (412) 439
 Cytochrome P460, (410) 457
 Cytochrome-oxidase-proteoliposome, (411) 365
 Cytokine, (403) 100; (404) 197; (410) 249; (413) 436; (414) 153, 159, 226; (417) 85
 Cytokine (mouse), (413) 249
 Cytokine receptor, (403) 79; (406) 315; (410) 368
 Cytokine-fold, (407) 239
 Cytokines, (413) 239
 Cytokinesis, (420) 161
 Cytoplasmic Ca²⁺ signal, (415) 169
 Cytoplasmic pH, (405) 145
 Cytoplasmic tyrosine kinase, (413) 205
 Cytoprotection, (409) 46; (417) 349
 Cytoskeletal microfilament, (403) 191
 Cytoskeleton, (403) 35, 123; (408) 21; (410) 265; (412) 94; (416) 149; (417) 101
 Cytoskeleton control, (418) 258
 Cytosolic Ca²⁺, (401) 202
 Cytosolic calcium, (414) 365
 Cytosolic glutathione transferase, (406) 216
 Cytosolic phospholipase A2, (410) 49
 Cytotoxic protein, (405) 312
 Cytotoxic T-cells, (407) 164
 Cytotoxicity, (400) 51; (411) 63; (413) 477; (414) 603; (416) 183; (418) 73
 Cytotrophoblastic cell, (405) 213
 3D-1D method, (404) 234
 2,4-D, (407) 69
 D1 protein, (400) 359; (408) 276
 D1-D2-cytochrome *b-559* complex, (420) 171
 D85S and D85T mutants, (418) 239
 D96N mutant, (409) 137
dad gene, (404) 275
 Dangling base, (420) 134
 Database, (414) 425
Daucus carota, (408) 115
 Dbl homology domain, (407) 111
 dCMP, (409) 385
 De novo protein, (414) 243
 Death effector domain, (402) 256
 Death receptor, (416) 329
 Death-domain, (402) 81
Defender against apoptotic death gene, (404) 275
 Defense response, (405) 95
 Defensin, (405) 200; (410) 338; (413) 45
 Degree of polymerization, (416) 203
Dehalobacter restrictus, (409) 421
 Dehydroascorbate reduction, (414) 567
 Dehydroergosterol, (416) 190
 Delayed rectifier, (417) 43
 Deletion, (418) 167; (419) 153
 Delivery, (407) 275
 Delta-endotoxin, (404) 148
 Denaturation, (406) 191; (417) 239
 Dendritic cell, (418) 98
 Denitrification, (412) 365; (414) 545
 Deoxy-D-ribose, 2-, (409) 365
 Deoxy-D-xylulose, (414) 129
 2-Deoxyglucose uptake, (402) 246
 3-Deoxyglucosone, (407) 297
 Deoxypyridinoline, (404) 303
 Deoxyriboduplex, (420) 134
 Deoxyuridine, (414) 271
 Dephosphorylation, (402) 141; (404) 37; (411) 265; (416) 230
 Derepression, (402) 4
 Dermaseptin, (414) 27
 Desensitization, (403) 91; (404) 294; (408) 211; (413) 323; (415) 200
 Desialylation, (413) 202
 Desipramine, (418) 39
 Detergent-resistant membrane, (416) 39
 Deuterium enrichment, (415) 109
 Development, (417) 321; (418) 53, 275; (419) 239
 Developmental regulation, (404) 283
 Dexamethasone, (408) 141; (415) 11; (416) 317
 d(GA·TC)_n sequence, (420) 156
 DHR domain, (413) 243
 Diabetes, (401) 99; (407) 148, 297; (408) 57
 Diabetes mellitus, (415) 281
 Diabetes mellitus, non-insulin-dependent, (417) 150

- Diacylglycerol hydroperoxide, (412) 461
 Diacylglycerol kinase (DGK), (409) 258; (414) 599
 Diacylglycerol lipase, (410) 54
 Diadenosine oligophosphate, (415) 160
 Dialysis, (400) 221
 Diamide, (406) 126
 4',6-Diamidino-2-phenylindole, (408) 85
 Diaminonaphthalene, (408) 319
 Diarrhea, (410) 29
 Dibasic residue, (406) 205
 Dibutyl cyclic AMP, (402) 12
 Dibutyl cyclic GMP, (402) 12
Dictyostelium, (419) 37
Dictyostelium discoideum, (404) 100; (418) 357
N,N'-Dicyclohexylcarbodiimide, (412) 375
 Dietary antioxidant, (409) 12
 Dietary quercetin, (418) 152
 Differential display, (403) 181; (404) 82; (405) 328; (408) 16, 221; (412) 370; (413) 65; (419) 131
 Differential Scanning Calorimetry, (409) 417
 Differentiation, (400) 350; (412) 420; (418) 101; (420) 74
 Diffusion, (406) 275; (418) 127
 Digestive vacuole, (409) 67
 Diglyceride, (400) 99
 Diheme cytochrome *c*, (412) 75
 Dihydroceramide desaturase, (416) 153
 2,7-Dihydrodichlorofluorescein diacetate, (416) 175
 Dihydroflavonol 4-reductase, (403) 116
 Dihydrofolate reductase, (402) 157; (405) 16
 Dihydrolipoyl acetyltransferase, (413) 339
 Dihydropyridine, (411) 115
 Dihydropyridine receptor, (417) 13
 Dihydrorhodamine 123, (416) 381
 Dihydroxyacetonephosphate acyltransferase, (420) 205
 1,25-Dihydroxyvitamin D₃, (409) 63
 Dimer, (409) 437
 Dimer formation, (400) 238
 Dimer/monomer interconversion, (408) 276
 Dimeric mutant, (418) 53
 Dimeric/monomeric organization, (414) 585
 Dimerization, (408) 151; (410) 153; (417) 405
 Dimethyldioctadecylammonium bromide, (400) 233
N,N-Dimethylsphingosine, (417) 341
N,N-Dimethylsphingosine 1-phosphate, (417) 341
 Dimyristoylphosphatidylcholine, (405) 263
 Dimyristoylphosphatidylglycerol, (416) 130
 Dinitrophenyl-S-glutathione, (413) 344
 DiOC₆(3), (411) 77
 Dioxygenase, (405) 191
 Dipeptide, (414) 165
 Dipeptidyl peptidase, (410) 343
 2,3-Diphospho-glycerate, (416) 90
 Diphtheria toxin, (406) 157
 Direct protein-protein interaction, (405) 291
 Disheveled, (411) 369
 Disintegrin, (416) 197
 Disseminated intravascular coagulation, (409) 442
 Dissociation, (415) 183
 Dissociation constant, (414) 39; (417) 71
 Distribution, (414) 105
 Disulfide, (414) 497
 Disulfide bond, (401) 89; (402) 203; (408) 135; (409) 407; (416) 197
 Disulfide bridge, (410) 397; (413) 215
 Disulfide bridge conformation, (417) 375
 Disulfide-bonding, (400) 71; (412) 211
 Diurnal rhythm, (415) 173
 Divergence, (416) 221
 DMR1E-C, (414) 187
 DNA, (405) 5, 141; (418) 127
 DNA bending, (417) 352
 DNA binding, (406) 271; (407) 320; (408) 99; (413) 162; (417) 145
 DNA binding protein, (401) 109; (408) 301; (414) 219, 333; (418) 53
 DNA break, (415) 75
 DNA chemical modification, (407) 325
 DNA condensation, (409) 188
 DNA curvature, (406) 69; (417) 352
 DNA damage, (414) 457; (418) 87
 DNA electrodiffusion, (415) 81
 DNA fragmentation, (408) 225; (413) 99
 DNA helix, (410) 201
 DNA ligase, (400) 25
 DNA methylation, (417) 48
 DNA polymerase, (400) 25; (410) 423, 509; (413) 181
 DNA polymerase III, (400) 94
 DNA polymerase subunit, (408) 311
 DNA repair, (400) 25; (414) 581
 DNA repetitive sequences, (400) 37
 DNA sequence, (404) 269
 DNA structure, (406) 69
 DNA synthesis, (400) 119; (412) 197; (414) 501
 DNA topoisomerase I, (407) 18
 DNA triple helix, (416) 86
 DNA triple repeat, (417) 352
 DNA uptake efficiency, (414) 187
 DNA vaccination, (402) 107
 DnaA protein, (404) 125
 DNA-drug interaction, (420) 156
 DnaJ, (412) 633
 DnaK, (412) 633
 DNase activity, (416) 23
 DnaX, (408) 311
 Docking platform, (403) 113
 Dolichol, (416) 235
 Domain interaction, (406) 184
 Domain movement, (413) 429
 Domain separation, (406) 184
 Domain structure, (417) 109
 Domain structure and function, (412) 563
 Domain structure of transposase, (413) 453
 Dominant lethal mutation, (402) 136
 Dominant-negative mutant, (410) 391
 L-DOPA, (413) 157
 D-Dopachrome tautomerase, (417) 85
 Dopa decarboxylase, (412) 245
 Dopamine, (413) 157; (420) 191
 Dorsal root ganglion, (400) 183; (409) 49
 Dose response curve, (409) 273
 Double stranded channel, (412) 15
 Double-stranded RNA, (415) 308
 Down's syndrome, (408) 105; (409) 411
 Down-regulation, (402) 198; (418) 333
 Downstream promoter, (411) 189
Drosophila, (401) 171; (406) 6; (412) 211; (413) 60, 104, 191; (414) 285
Drosophila melanogaster, (404) 65; (410) 407; (413) 7; (416) 164
 Drug delivery system, (413) 177
 Drug design, (410) 269; (419) 32
 Drug resistance, (420) 11
 Drug target, (414) 449
 Duchenne dystrophy, (408) 341
 Duckweed, (411) 236
 dUTPase, (414) 271
 Dynamic light scattering, (403) 245
 Dynammin, (413) 319; (419) 175
 Dynein, (412) 325
 Dynorphin A, (417) 333
 α -Dystroglycan, (408) 341
 Dystrophin, (410) 153
 Dystrophin-associated protein, (403) 143
 E.C. 3.4.11.2, (412) 53
 E6, (416) 6
 E-64, (407) 47
 E-64c, (419) 231
 E6AP, (420) 25
 E6-associated protein, (416) 6
 Early auxin-responsive gene, (419) 131
 Early embryogenesis, (417) 184
 Earthworm muscle, (417) 191
 Ecdysteroid agonist, (400) 345
 ECE-1, (417) 365
 3' to 5' Editing exonuclease, (400) 94
 eEF-2 kinase, (407) 21
 EF hand, (413) 185; (414) 557
 Efficacy, (419) 141
 Efflux, (412) 201
 Efflux protein, (419) 211

- EGF, (406) 211; (410) 265
 EGF receptor, (410) 265
 Ehrlich ascites tumor cell, (414) 1
 Eicosanoid, (419) 83, 215
 eIF-4E, (409) 407; (418) 327
 Elastase, (402) 111; (412) 475
 Electroactive label, (400) 155
 Electrochemistry, (400) 155
 Electrogenesis, (412) 490
 Electrogenic phase, (414) 193
 Electrogenicity, (408) 271
 Electromagnetic field, (414) 501
 Electron microscopy, (405) 195; (412) 563; (414) 187
 Electron paramagnetic resonance, (405) 73; (406) 255; (407) 148; (412) 43; (417) 223
 Electron spin echo envelope modulation, (400) 247
 Electron spin resonance, (403) 127
 Electron transfer, (401) 153; (407) 159; (409) 128; (410) 243; (412) 305, 365, 375, 490; (414) 281
 Electrophysiology, (400) 113; (408) 261; (411) 339
 Electrospray ionization mass spectrometry, (413) 473; (417) 145
 Electrospray mass spectrometry, (402) 25
 Electrostatic interaction, (407) 159; (410) 141
 Electrostatics, (404) 159
cis-Element, (413) 40
 Elf-1, (408) 47
 Elicitor, (416) 190
 Elicitor protein, (404) 153
 ELISA, (419) 55
 Elk-1, (417) 283
 Elongation factor G, (407) 253
 Elongation factor Tu, (407) 253
 Elongation factor-2, (407) 21
 Enamel cell, (402) 145
 Endocytosis, (402) 57; (405) 107; (413) 185; (414) 308; (419) 37, 175
 Endoglin (human), (413) 265
 Endonuclease, (412) 217
 Endopeptidase-24.15, (401) 227
 Endophilin, (414) 308
 Endoplasmic reticulum, (401) 104; (402) 145; (404) 75; (405) 181; (406) 291; (407) 230; (409) 115; (419) 235
 Endoplasmic reticulum (rat liver), (409) 292
 Endoplasmic reticulum retrieval and retention, (418) 357
 Endoplasmic reticulum-associated degradation, (412) 65
 Endoribonuclease, (414) 362
 Endosome, (402) 57
 Endostatin, (420) 129
 Endothelial and smooth muscle cell, (403) 40
 Endothelial cell, (405) 356; (408) 331; (409) 46, 277, 351; (413) 124; (414) 239; (417) 349; (418) 6, 73
 Endothelial cell migration, (418) 341
 Endothelin, (417) 365; (420) 103
 Endothelin-1, (400) 280
 Endothelin-converting enzyme, (420) 103
 Endothelium, (403) 139; (410) 249; (414) 419; (415) 169; (416) 381; (420) 28, 129
 δ -Endotoxin, (411) 27; (414) 303, 313
 Endotoxin, (411) 378
 Energy coupling, (414) 369
 Energy expenditure, (418) 200
 Energy metabolism, (410) 383; (415) 341
 Energy-transfer inhibitor, (419) 23
 Enhanced bactericidal action of lysozyme, (415) 114
 Enkephalin, (404) 19
 Enkephalin convertase, (408) 195
 Enolase, (412) 370
 Enology, (410) 452
 Enteric isolate, (418) 27
 Enterocyte mitochondria, (413) 269
 Envelope, (406) 191
 Envelope glycoprotein, (406) 205
 EnvZ, (400) 238
 EnvZ osmosensor, (417) 409
 Enzymatic activity, (417) 329
 Enzymatic synthesis, (419) 220
 Enzyme activation, (408) 30; (409) 7
 Enzyme activity, (400) 51
 Enzyme family, (406) 216
 Enzyme inactivation, (413) 1
 Enzyme induction, (418) 265
 Enzyme inhibition, (400) 336
 Enzyme kinetics, (417) 414
 Enzyme mechanism, (405) 209
 Enzyme-inhibitor complex, (409) 121; (419) 32
 Enzyme-linked immunosorbent assay, (401) 65
 Enzyme-substrate interaction, (411) 140
 Eosinophil cationic protein, (404) 1
 Eosinophil-derived neurotoxin, (404) 1
 Epidermal growth factor, (407) 7; (408) 43; (413) 129; (415) 212; (418) 63, 115
 Epidermis, (401) 167; (402) 162
 Epitope, (412) 456
 Epitope library, (407) 137
 Epitope mapping, (412) 48; (414) 50; (416) 193
 Epitope recognition, (402) 277
 Epoxidation, (405) 153
 Epoxyeicosatrienoic acid, (416) 269
 EPR, (412) 346; (414) 209
 EPR spectroscopy, (416) 247
 EPS capsule, (400) 252
 Eps15, (409) 195
 Equilibrium dialysis, (409) 385
 Equine infectious anemia virus, (414) 271
 ER, (407) 361
 ErbB, (410) 83
Eremosphaera viridis, (405) 390
 ER-Golgi recycling, (413) 395
 ERK/MAPK, (408) 33
 ERK1/ERK2, (406) 179
 Erythrocyte, (412) 521; (416) 123
 Erythrocytes primary culture, (414) 125
Escherichia coli, (401) 15; (403) 203; (404) 45, 125, 140, 272; (406) 23; (407) 353; (408) 1, 11; (409) 161; (410) 502; (412) 43, 57, 126; (413) 109, 453, 473; (414) 293, 397, 492; (415) 317; (416) 171, 225, 349; (417) 409; (418) 27; (419) 18, 281
Escherichia coli K12, (412) 39
Escherichia coli periplasm, (417) 123
Escherichia coli secretion, (414) 33
 ESI-MS, (407) 347
 Esterase, (403) 259
 17 β -Estradiol, (411) 145
 Estrogen, (409) 79; (410) 87
 Estrogen receptor, (410) 87; (411) 145
 Estrogen receptor α , (416) 107
 Estrogen receptor β , (416) 107
 Estrogen-inducible membrane glycoprotein, (416) 139
 Ethacrynic acid, (419) 32
 Ether lipid biosynthesis, (420) 205
 7-Ethoxycoumarin, (416) 77
 Ethylene, (404) 275; (416) 143
 Etomoxir, (404) 111
 Etoposide, (408) 141
 ETS protein, (408) 47
 Eubacterial expression, (420) 54
Euglena gracilis, (405) 104
 Eukaryotic elongation factor1 α , (407) 13
 Evolution, (409) 320; (412) 429, 540; (413) 333; (416) 221; (417) 213
 Evolutionary change, (416) 99
 Evolutionary molecular engineering, (414) 405
 FVX1, (402) 131
 Excess substrate inhibition, (408) 324
 Exchange rate, (408) 235
 Excimer fluorescence, (420) 63
 Excitation energy transfer, (410) 433
 Excitation-contraction coupling, (412) 223; (417) 13
 Excitatory amino acid, (408) 5
 Excitotoxicity, (406) 114
 Exendin(9–39), (415) 134
 Exocrine pancreas, (405) 219
 Exocyst, (404) 135
 Exocytosis, (404) 221
 Exocytosis, (402) 227; (404) 34, 135; (410) 44, 229; (411) 356; (414) 298, 349; (415) 49; (419) 13
 Exon-shuffling, (405) 47
 Exonuclease, (409) 151
 Exoribonuclease, (414) 362

- Exorphin, (412) 475
 Expressed Sequence Tag, (403) 221, 225; (405) 129; (415) 163
 Expressing library of cDNA, (414) 135
 Expression, (402) 124; (404) 91, 95; (408) 211; (409) 357; (411) 206; (412) 138; (413) 486; (419) 124
 Expression cassette, (407) 132
 Expression cloning, (417) 287
 Expression in *E. coli*, (406) 97
 Expression profile, (403) 225
 Expression sequence Tag, (413) 309
 Expression system, (400) 108
 Expression vector, (420) 39
 Extracellular acidification, (412) 253
 Extracellular domain, (409) 469
 Extracellular glycoprotein, (415) 186
 Extracellular guanine nucleotide receptor, (406) 114
 Extracellular ion, (405) 337
 Extracellular matrix, (401) 213; (403) 163; (405) 95; (411) 164; (413) 129; (414) 557; (415) 212
 Extracellular proteinase, (415) 329
 Extremely-low-frequency electric field, (414) 343
- F_0 , (412) 351
 F17R, (409) 141
 F_1 -ATPase, (404) 15; (410) 165; (412) 169; (413) 55; (419) 23
 F_1F_0 -ATP synthase, (410) 165
 F_1F_0 -ATPase, (411) 195
 Fab' fragment, (413) 177
 F_{ab} fragment, (414) 33
 Fab fragment, (417) 239
FabF, (402) 62
FabJ, (402) 62
 FAB-MS, (404) 279
 Fabry disease, (417) 89
 F-actin, (409) 300; (410) 265
 F-actin ring, (420) 161
 Factor VIIa, (413) 359
 FADD, (402) 256
Fagopyrum esculentum Moench, (400) 103
 Familial amyloidotic polyneuropathy, (418) 297
 Familial amyotrophic lateral sclerosis, (400) 108
 Family PCR cloning, (403) 61
 Fanconi's anaemia, (409) 365
 FAO hepatoma cell, (412) 480
 Farnesyl protein transferase, (414) 527
 Fas, (402) 256; (417) 360
 Fas antigen, (400) 15
 Fas/APO1-mediated apoptosis, (412) 91
 Fas(Apo-1/CD95), (412) 102
 Fasting, (412) 111
 Fast-twitch muscle, (403) 279
fat mice, (416) 45
 F-ATPase, (410) 117
 Fatty acid, (412) 179, 207, 480; (416) 19; (420) 167
 Fatty acid amide, (411) 287
 Fatty acid amide hydrolase, (415) 313
 Fatty-acid-binding protein (FABP), (410) 383; (414) 461
 Fatty acid biosynthesis, (415) 16
 Fatty acid desaturase, (413) 226
 Fatty acid flip-flop, (408) 161, 166
 Fatty acid structure, (406) 161
 Fatty acid synthase, (408) 243
 Fatty acid synthesis, (407) 249
 Fatty acid uniport, (408) 166
 Fatty acid unsaturation, (408) 191
 Fatty-acid transporter, (414) 461
 FAU, (405) 148
 Fc receptor, (416) 212
 Fc receptor γ -chain, (413) 255
 Fc γ receptor, (400) 11
 Fc γ RIIIb, (414) 14
 FDH-HSA, (408) 67
 Feedback loop, (414) 430
 Feeding, (405) 285; (415) 134
 Fe(III)-citrate, (414) 571
 Fe–NO bond, (409) 216
 FER, (403) 45
 Ferredoxin, (400) 293; (412) 501
 Ferric iron-binding protein, (413) 364; (417) 253
 Ferric uptake regulation (Fur) protein, (413) 473
 Ferroxidase, (411) 93
 Fertilin, (405) 351
 Fertilization, (412) 309; (413) 385
 Fetal bovine serum, (406) 179
 α -Fetoprotein, (410) 280
 Fibrillin, (413) 424
 Fibrinolysis, regulation of, (405) 363
 Fibroblast, (400) 315; (402) 286; (404) 6; (409) 351; (410) 160; (413) 441; (416) 317; (420) 175
 Fibroblast growth factor, (411) 389; (414) 419
 Fibroblast growth factor receptor, (411) 389
 Fibroblast growth factor, acidic, (403) 139
 Fibroblast growth factor, basic, (403) 139
 3T6 fibroblast, (400) 304
 Fibronectin, (412) 48; (418) 337
 Fibronectin type II domain, (407) 201
 Fibrosis, (406) 301
 Filter binding assay, (418) 53
 Fis, (401) 1
 Fish, (416) 344
 Fission yeast, (420) 161
 FKBP, (407) 184
 Flagellar motor, (409) 37
 5'-Flanking sequence, (404) 95
 Flash-photolysis, (420) 54
Flaveria, (403) 5
 Flavin monooxygenase, (410) 407
 Flavohemoprotein, (414) 545
 Flavonoid, (401) 78
 (Iso)Flavonoids, (413) 344
 Flavonoid glycoside, (418) 152
 Flavonoid uptake, (401) 78
 Flavonol metabolism, (409) 12
 Flavopiridol, (413) 344
 Flavoprotein, (402) 33; (414) 45
 Flavoprotein semiquinone, (400) 247
 FLICE, (402) 256; (419) 49
 Flow chamber, (403) 239
 Flow cytometer, (404) 299
 Flow cytometry, (405) 37; (413) 231
 Fluconazole, (400) 80
 Fluid phase, (405) 263
 Fluid-phase endocytosis, (420) 86
 Fluo-3, (410) 403
 Fluorescence, (402) 67; (405) 141, 378; (406) 184; (416) 103, 130, 190
 Fluorescence anisotropy, (419) 227
 Fluorescence emission spectroscopy, (416) 217
 Fluorescence microscopy, (405) 37
 Fluorescence quenching, (419) 227
 Fluorescence spectroscopy, (408) 319
 Fluorescent dye, (405) 141; (420) 86
 Fluorescent dye-labeled oligonucleotide, (407) 325
 Fluorescent label, (405) 141
 Fluorogenic substrate, (413) 379; (418) 305
 Fluridone, (400) 359
 FMRFamide, (409) 426
 Fnr, (404) 272; (414) 373
 FNR, (416) 349
 Foam cell, (409) 177
 Focal adhesion, (404) 118; (410) 68
 Focal adhesion kinase, (420) 112
 Focal adhesion kinase protein, (400) 280
 Focal contact, (419) 95
 F_0F_1 -ATPase, (414) 485
FokI, (403) 136
 Folate, (402) 157
 Folding, (409) 115; (415) 6; (420) 63
 Folding intermediate, (417) 239; (418) 106
 Follicle stimulating hormone, (402) 198
 Fork head, (410) 124
 Formaldehyde dehydrogenase, (409) 221
 Formate, (412) 643
 Forskolin, (412) 79; (413) 104; (419) 171
 Fos, (400) 9; (410) 191
 Fostriecin, (416) 230
 Free radical, (403) 70, 213, 230; (405) 21; (408) 297; (413) 289; (419) 99

- Friedreich's ataxia, (411) 373
Frizzled, (417) 385
 Frog skin, (414) 27
 FRTL-5 thyroid cells, (413) 260
 Fructan, (400) 355
 Fructose-1,6-bisphosphatase, (401) 143; (408) 30
 Fructose-1,6-bisphosphate, (409) 86
 Fructose-2,6-bisphosphate, (418) 63
 FT-IR spectroscopy, (402) 41, 173; (416) 247; (417) 153
 FtsY, (416) 225
 L-Fucose metabolism, (412) 126
 Fucosylation, (409) 312
 Function, (410) 49
 Functional complementation, (400) 243; (410) 213
 Functional domain, (413) 60, 162
 Functional expression, (402) 162; (403) 91; (417) 157
 Functional locus, (404) 41
 Functional specificity, (419) 157
 Functional stability, (415) 192
 Fungus, (405) 111
 Funnel-web spider, (419) 191
 Fura-2, (415) 335
 6-Furfuryladenine, (414) 457
 Furin, (400) 177; (405) 68; (419) 9
 Furin-like, (406) 205
Fusarium oxysporum, (414) 545
 Fusicoccin, (405) 145
 Fusicoccin-binding protein, (405) 145
 Fusion, (415) 49; (416) 183
 Fusion peptide, (405) 351
 Fusion protein, (401) 95; (405) 291; (408) 156; (411) 231
 Fusion toxin, (406) 157

 G protein, (407) 257, 361; (413) 104; (414) 323; (415) 200; (417) 292; (419) 141
 G protein $\beta\gamma$ subunit, (401) 25
 G protein coupling, (415) 119
 G protein-coupled receptor, (402) 203; (410) 34; (412) 141; (417) 279
 G protein-coupled receptor kinase, (415) 119
 G1 arrest/apoptosis, (409) 41
 G12 protein, (401) 38
 G2 arrest, (400) 127
 G418 (Geneticin), (409) 333
 GA mismatch, (420) 134
G α_{16} , (417) 292
 GABA, (417) 177
 GABA release, (417) 345
 Gag, (415) 227, 231
gag polyprotein, (414) 84
 GAGA factor, (414) 285
 GAL4, (417) 145
 β -Galactocerebrosidase, (417) 270
 Galactomannan, (414) 338
 α -Galactosidase, (417) 89
 β -Galactosidase, (419) 231
 Galactosylceramide, (417) 270
 Galanin, (405) 285; (411) 225
 Gal β 1,4GlcNAc α 2,6 sialyltransferase, (409) 347
Galdieria sulphuraria, (401) 35
 Gamma-carboxyglutamate, (407) 85
gamma-Carboxyglutamate, (411) 19
 Ganglioside, (400) 350
 Ganglioside G_{M1}, (402) 95
 GAP, (410) 169
 Gap junction, (400) 58
 Gas chromatography/mass spectrometry, (419) 215
 Gas6, (408) 306
 Gastric carcinoma, (414) 333
 Gastric digestion, (402) 99
 Gastric epithelial cells, (418) 115
 Gastrin promoter, (411) 383
 Gastrointestinal tract, (419) 239
 GATA factor, (408) 301; (414) 333
 GB virus-C, (407) 51
 G $\beta\gamma$ binding, (405) 291
 GC rich DNA oligomer, (418) 76
 gC1qBP, (418) 111
 GDP dissociation inhibitor, (403) 303
 GDP-D-mannose dehydratase, (412) 126
 GDP-L-fucose biosynthesis, (412) 126
 Gel filtration chromatography, (418) 297
 Gel phase, (405) 263
 Gel shift, (408) 25
 Gelatinase, (402) 111; (418) 19
 Gelatinase A, (412) 568
 Gelatinase A activation, (402) 219
 Gelatinase B, (414) 562
 Geldanamycin, (418) 139
 Gelonin, (406) 162
 Gelsolin, (401) 89, 191; (406) 49; (412) 94; (417) 191
 Gene, (402) 45; (404) 41; (409) 452; (417) 311
 Gene activation, (406) 271
 Gene cloning, (414) 439
 Gene deletion, (416) 65
 Gene delivery, (400) 233; (404) 164
 Gene disruption, (410) 29; (411) 373
 Gene duplication, (412) 540
 Gene expression, (400) 83, 141, 252, 309; (401) 213; (402) 251, 265, 273; (403) 131, 225; (404) 125, 216; (406) 23; (407) 225; (408) 47, 221; (409) 79, 277; (411) 83; (412) 285, 480, 511, 615; (413) 309; (415) 206; (416) 107, 317, 344; (419) 41, 69, 131, 268; (420) 69
 Gene expression (*E. coli*), (414) 373
 Gene family, (400) 2; (404) 95
 Gene function, (403) 221; (405) 129
 Gene fusion, (405) 209
 Gene mapping, (411) 296; (419) 181
 Gene mutation, (417) 89
 Gene rearrangement, (418) 205
 Gene regulation, (412) 183; (420) 186
 Gene sequence, (405) 345
 Gene signature, (403) 225
 Gene structure, (409) 401; (411) 225; (414) 27; (416) 302, 344
 Gene tandem, (420) 20
 Gene targeting, (401) 99; (415) 33
 Gene therapy, (404) 164; (405) 5; (407) 78, 164
 Gene transcription, (402) 131; (416) 269
 Gene transfection, (408) 232
 Gene transfer, (404) 129; (419) 103
 Genetic code, (419) 153
 Genetic deterioration, (408) 21
 Genetic diagnosis, (404) 19
 Genetic disease, (409) 115
 Genetic variation, (415) 75
 Genetics, (410) 25
 Genome analysis, (403) 225; (406) 69
 Genome duplication, (400) 2
 Genome sequencing, (403) 221; (405) 129
 Genomic mapping, (416) 281
 Genomic sequence, (404) 294
 Genotype, (407) 51
 Genotype assignment to phenotype, (414) 405
 Gephyrin, (405) 137
 Germ cell, (413) 11
 Germinal vesicle breakdown, (419) 63
 Gestation, (402) 273
 GFP, (414) 233
 GFP (green fluorescent protein), (405) 181
 GGNG peptide family, (410) 437
GH3, (419) 131
 GHN bias, (414) 165
G α_{16} , (415) 139
Giardia lamblia, (419) 87
Gibberella, (413) 35
 Gibberellin, (413) 35
 Gilt uterus, (405) 148
 Ginseng, (407) 207
 Gla domain, (408) 306; (413) 359
 β 1,6-GlcNAc transferase, (412) 637
 GLGF repeat, (413) 243
 Glibenclamide, (411) 255
 Glioma, (409) 17
 GLN3, (410) 213
 GLP-1, (415) 134
 Glu M²³⁴ > Lys, (409) 343
 Glucagon-37, (410) 515
 Glucocorticoid, (402) 36; (403) 100; (410) 175; (413) 389; (419) 161

- Glucocorticoid receptor, (405) 181; (419) 103
 11 β -Glucocorticosteroid, (419) 103
 Glucokinase, (415) 281
 Gluconate, (412) 485
 Gluconeogenesis, (412) 131
 Gluconolactone, (412) 485
 Glucosamine oligosaccharide, (411) 346
 Glucose, (406) 243; (415) 249; (417) 81; (419) 13
 Glucose absorption, (410) 515
 Glucose activation, (411) 308; (420) 17
 Glucose consumption, (406) 175
 Glucose dehydrogenase, (412) 485
 Glucose metabolism (yeast), (412) 531
 Glucose transport, (407) 267
 Glucose transporter 4, (402) 246
 Glucose-6-phosphatase, (409) 317; (419) 235
 Glucose-6-phosphate dehydrogenase, (405) 21
 Glucose-induced signalling, (420) 147
 Glucose-regulated protein, (417) 316
 Glu-plasminogen, conformation of, (405) 363
 Glu-plasminogen, glycoforms, (405) 363
 GLUT1, (407) 267
 GLUT4, (409) 461
 GLUT 4 translocation, (413) 152
 Glutamate, (412) 179; (413) 467; (414) 55
 Glutamate receptor, (405) 245
 Glutamate release, (411) 107
 Glutamate transporter, (416) 312
 Glutamate uptake, (411) 107
 Glutamine, (413) 81, 115
 Glutamyl endopeptidase, (404) 241
 γ -Glutamylcysteine synthetase, (404) 216
 Glutathione, (401) 11, 104; (403) 139; (405) 11; (409) 221, 370; (415) 341
 Glutathione conjugate, (406) 75
 Glutathione peroxidase, (409) 370; (410) 210; (418) 247
 Glutathione reductase, (412) 318
 Glutathione S-conjugate, (419) 112
 Glutathione synthetase, (408) 16
 Glutathione transferase, (409) 370; (410) 210; (419) 32
 Glutathione-S-transferase, (405) 291
 Gluten, (412) 475
 Glutenin, (412) 475
 O-Glycan, (406) 296
 Glycation, (416) 276
 Glyceraldehyde phosphate, (400) 271
 Glyceraldehyde-3-phosphate dehydrogenase, (414) 247; (416) 90
 Glycerol, (410) 243; (414) 353
 Glycine, (417) 177
 Glycine decarboxylase complex, (412) 265
Glycine max., (409) 370
 Glycine receptor, (405) 137
 Glycine-gated channel, (414) 99
 Glycogen metabolism, (415) 249; (417) 355; (418) 210
 Glycogen storage disease, (409) 317; (419) 235
 Glycogen synthase, (406) 211; (415) 249; (416) 307
 Glycogen synthase kinase-3, (406) 211; (410) 418; (411) 183; (416) 307
 Glycogen synthesis, (411) 351; (417) 101
 Glycogenin, (417) 355
 Glycolipid, (418) 310
 Glycolysis, (409) 86; (418) 47
 Glycolytic enzyme activity, (417) 325
 Glycolytic enzyme induction, (403) 87
 Glycophorin, (406) 296
 Glycoprotein hormone, (406) 139
 Glycoprotein VI, (413) 255
 Glyco-replica peptide, (418) 219
 Glycosaminoglycan, (402) 286; (403) 154; (420) 175
 N-Glycosidase activity, (402) 50
 Glycosidase inhibitor, (418) 219
 Glycoside, (401) 78
 Glycosylasparaginase, (412) 149
 Glycosylation, (406) 191; (417) 227, 365; (420) 186
 N-Glycosylation, (407) 267, 271
 O-Glycosylation, (407) 201
 Glycosylphosphatidylinositol, (409) 333
 Glyoxalase II, (418) 351
 GM1 ganglioside, (420) 43
 GM-CSF receptor, (412) 161
 GMP, (411) 110
 Golgi, (411) 169
 Golgi apparatus, (404) 75; (414) 177
 Gonadotropin releasing hormone, (413) 215
 Gonococci, (405) 86
Gonyaulax polyedra, (411) 245
 gp120, (405) 68; (411) 87, 107
 gp130, (401) 49, 133; (403) 79; (412) 379
 gp160, (405) 68
 gp30, (406) 205
 gp39, (417) 301
 gp41, (405) 68
 gp51, (406) 205
 gp72, (406) 205
 GPI-anchored, (405) 1
 G-protein, (401) 68; (404) 100; (406) 6, 114, 165; (408) 135, 261; (409) 24; (411) 179; (412) 321; (419) 92
 G-protein $\beta\gamma$ -subunit, (401) 243
 G-protein coupling, (401) 185
 G-protein-coupled receptor, (405) 285; (406) 139; (407) 59; (409) 24, 431; (411) 225; (413) 489; (419) 171
 G-protein-coupled receptor kinase, (409) 24
 G-protein-gated inwardly rectifying K⁺ channel, (405) 291
 Gram-negative, (400) 122
 Gram-negative bacteria, (400) 188
 Gram-negative infection, (402) 213
 Granulocyte colony-stimulating factor, (404) 234; (410) 131
 Granulocyte macrophage-colony stimulating factor, (418) 215
 Gravity response, (420) 151
 Green alga, (405) 390
 Green fluorescent protein, (407) 235, 313; (410) 29; (411) 97; (413) 50; (415) 249; (417) 355, 390
 GroE chaperone, (407) 215
 GroEL, (405) 260; (411) 43
 GroES, (405) 260
 Growth, (409) 161; (414) 501
 Growth arrest, (410) 145; (415) 56
 Growth-blocking peptide, (413) 157
 Growth factor, (403) 159; (410) 83; (414) 471; (415) 56, 59; (420) 97
 Growth inhibitor, (415) 321
 Growth medium, (402) 286
 Growth rate, (418) 27
 Growth regulation, (409) 33
 Growth suppressor protein, (408) 99
 grp78, (417) 316
 GrpE, (412) 633
 G, chimera, (406) 165
 GSK3, (410) 3
 GSK-3, (411) 369
 GS-X pump, (419) 112
 GTPase, (404) 100; (407) 111; (410) 59, 63, 73
 GTPase activity, (410) 180
 GTPase domain, (406) 123
 GTP-binding protein, (411) 356
 Guanidine cyclase, (400) 285
 Guanine exchange factor (GEF), (403) 95
 Guanine nucleotide, (406) 114
 Guanosine 3',5'-cyclic monophosphate, (419) 255
 Guanosine tetraphosphate, (402) 4
 Guanosine triphosphate, (419) 13
 Guanylyl cyclase, (410) 25, 29
 Guanylyl cyclase C, (408) 345
 Guard cell, (409) 166
 Guinea pig (phospho)lipase GPLRP2, (404) 82
 Gut-enriched Krüppel-like factor, (419) 239
 H⁺ translocating vacuolar-type ATPase, (411) 239
 H⁺ transport, (408) 161, 166
 H⁺-ATPase, (402) 136; (411) 308; (420) 17
 H/D exchange experiment, (407) 42
 H₂O₂, (415) 87
 H3 histone, (407) 101
 Haem, (409) 297
 β -Haematin, (409) 297
Haematococcus pluvialis, (404) 129
 Haematoporphyrin, (409) 297
 Haem-copper oxidase, (414) 275

- Haemoglobin, (400) 19
 Haemolysis, (403) 208
 Haemozoin, (409) 297
 Hairless mice, (401) 167
 Hairpin-loop conformation, (409) 227
 Half-life time, (412) 53
Haliotis, (411) 119
Halobacterium salinarum, (409) 137; (418) 239
 Halothane, (402) 189
 Hamster, (412) 165
 Hamster β cell, (407) 191
 Hazardous chemical, (412) 370
 HBV, (410) 324
 Hck, (406) 131
 HDL₃, (414) 507
 Heart, (412) 111; (418) 171
 Heat, (406) 201
 Heat shock, (407) 215; (409) 211; (410) 493; (418) 123
 Heat shock element (HSE), (413) 92
 Heat-shock protein, (410) 493; (412) 57, 370, 633; (416) 117
 Heat-stable, (415) 329
 Heat-stable enterotoxin, *E. coli*, (401) 95
 Heat-stable enterotoxins, (408) 345
 Heavy atom derivative, (402) 33
 Heavy metal stress, (404) 216
 HECT domain, (420) 25
 Hedgehog signalling, (410) 485
 HEK293 cell, (408) 261
 HeLa, (420) 125
 HeLa cell, (413) 147; (414) 65
 α -Helical, (400) 158
 α -Helical coiled coil, (412) 388
 α -Helical peptide, (416) 265
 Helical polypeptides, (411) 19
Helicobacter pylori, (407) 32
 Helix, (407) 243
 α -Helix, (409) 431; (416) 72
 Helix bundle protein, (402) 17
 Hematin, (417) 249
 Hematopoiesis, (404) 289
 Hematopoietic progenitor cell, (407) 59
 Heme, (402) 236; (404) 143; (412) 610
 Heme C, (410) 351
 Heme C binding site, (412) 75
 Heme chirality, (411) 335
 Heme Cotton effect, (411) 335
 Heme enzyme, (412) 107; (414) 281
 Heme modification, (410) 457
 Heme oxygenase, (405) 219; (418) 247
 Heme peroxidase, (412) 305
 Heme polymerization, (409) 67
 Heme-copper terminal quinol oxidase, (416) 247
 Heme-ligand interaction, (416) 171
 Hemeprotein, (410) 457
 Hemin, (417) 249
 Hemocyanin, (407) 153; (408) 124
 Hemofiltrate, (400) 221; (420) 129
 Hemoglobin, (411) 335; (412) 341; (414) 545; (416) 90
 Hemolin, (408) 127
 Hemolysin, (414) 79
 γ -Hemolysin, (415) 96
 Hemolysis, (413) 236; (416) 123
 Hemolytic activity, (400) 289
 Hemozoin, (402) 236
 Heparin, (418) 63
 Heparin binding, (409) 183; (415) 303
 Heparin-binding protein, (407) 201
 Hepatic stellate cell, (403) 57; (414) 221
 Hepatitis, (410) 324
 Hepatitis C virus, (402) 209
 Hepatitis C virus: genotype, (411) 275
 Hepatitis delta virus (HDV) ribozyme, (413) 299
 Hepatitis G virus, (407) 51
 Hepatocyte, (403) 100; (405) 99; (406) 305; (412) 439; (419) 9
 Hepatocyte growth factor, (411) 378; (418) 115; (420) 1
 Hepatocyte growth factor/scatter factor, (405) 99
 Hepatocyte (rat), (404) 111
 Hepatoma, (413) 389
 HepG2 cell, (404) 105; (411) 93
 Heptad repeat, (400) 71
 Heptahelical receptor, (416) 39
 Herbicides, (409) 370
 HERG, (414) 435
 Herpes simplex virus, (414) 61
 HET-CAM assay, (402) 85
Heteractis magnifica, (418) 183
 Heterologous expression, (401) 73; (402) 28; (403) 26; (405) 267; (407) 63; (408) 89; (417) 123
 Heteronuclear NMR, (404) 45
 Heterotrimeric G protein β subunit, (402) 277
 Heterotrimeric G protein $\beta\gamma$ subunit, (416) 39; (417) 243
 Hexahistidine, (411) 97
 Hexapeptide, (414) 165
 Hexokinase, (403) 279
 HGF/NK4, (420) 1
 HGF-antagonist, (420) 1
 Hibernation, (411) 71
 Hidden antibody, (413) 231
 Hierarchy, (418) 43
 High mannose oligosaccharide, (412) 547
 High mobility group, (414) 514
 High-affinity column refolding, (417) 400
 High-density lipoprotein, (416) 377
 High-fat diet, (418) 200
 High-level bacterial expression, (409) 269
 High-molecular weight MAP, (403) 123
 High-pressure liquid chromatography, (414) 74
 High-voltage-gated calcium channel, (407) 137
 Hippocampus, (404) 221; (412) 183; (414) 55
 Hirschsprung, (419) 76
Hirudo nipponia, (410) 437
 His-tag, (413) 194
 Histamine, (404) 289
 Histamine H₂ receptor, (409) 283; (419) 171
 Histamine H₃-receptor, (404) 289
 Histidine biosynthesis, (412) 301
 Histidine decarboxylase, (417) 203
 Histidine kinase, (400) 238
 Histidine phosphate, (404) 45
 Histidine tag, (408) 11
 Histidine-rich glycoprotein, (412) 559
 L-Histidinol, (412) 301
 Histidinol dehydrogenase, (412) 301
 Histochemical analysis, (405) 26
 Histone acetyltransferase, *GCN5*, (403) 186
 Histone deacetylase, (419) 157
 Histone gene regulation, (408) 255
 Histone H1, (400) 193; (406) 56
 Histone H1 gene, (417) 48
 Histone H3.3B, (408) 255
 HIV, (405) 68; (406) 191; (410) 324; (411) 87; (412) 277; (414) 50
 HIV envelope glycoprotein, (413) 75
 HIV neurotoxicity, (411) 107
 HIV protease, (414) 84; (420) 11
 HIV-1, (401) 197; (405) 299; (410) 145, 301; (414) 603; (417) 61
 HIV-2 gp41, (405) 351
 HL-60, (412) 603; (417) 379
 HL-60 cell, (400) 350; (413) 99
 h-lamp, (405) 86
 Hlg2, (415) 96
 HMG1 protein, (400) 275
 HMG-CoA reductase, (411) 265; (413) 115
 HNF-1, (412) 597
 HNF-3, (410) 124
 Homeobox evolution, (411) 119
 Homeobox gene, (408) 25; (410) 124
 Homeodomain, (407) 320; (410) 124
 Homeo-specific site, (412) 5
Homo sapiens, (401) 38; (404) 140
 Homocysteine, (414) 497
 Homoglutathione, (409) 370
 Homologous recombination, (418) 251
 Homology, (400) 2; (412) 341; (414) 425; (416) 93
 Homology modeling, (401) 1
Hordeum vulgare, (400) 355; (414) 197
 Horse seminal plasma protein, (420) 179

- Horseradish peroxidase, (411) 269
 Housefly *para*-subunit, (413) 327
HOX gene, (415) 263
 HPLC, (403) 236
 HPr phosphotransfer domain, (408) 337
 Hrp pili, (417) 168
 HrpA, (417) 168
 HSA, (408) 67
 Hsc70, (416) 81
 α_2 -HS-glycoprotein, (412) 559
hsla, (415) 67
 HslU, (414) 402
 HslV, (414) 402
 HslVU, (412) 57
 HSP, (417) 321
 Hsp104, (416) 1
 Hsp27, (410) 493
 HSP-3, (420) 179
 Hsp70, (412) 633; (416) 81; (417) 316
 hsp70/hsc70 molecular chaperone, (417) 109
 Hsp90, (418) 139
 hsp90 β gene, (413) 92
 5-HT, (413) 489
 HTLV-I, (406) 263
 5-HT receptor, (401) 252
 5-HT₁ receptor, (412) 465
 5-HT₁ receptor agonist, (412) 465
 5-HT₁ receptor antagonist, (412) 465
 5-HT₇ receptor, (412) 321
 Human, (400) 221, 309; (401) 83; (402) 36; (405) 42; (409) 426; (410) 160; (412) 506; (417) 365; (418) 139, 152; (419) 32
 Human B7, (407) 63
 Human breast cancer, (412) 568
 Human carbonic anhydrase II, (402) 67; (411) 43
 Human cardiac myocyte, (412) 465
 Human cell H60, (415) 160
 Human cerebral cortex, (408) 52
 Human ceruloplasmin, (407) 132
 Human chromosome 3, (419) 181
 Human c-Src, (411) 317
 Human CTLA-4, (407) 63
 Human cutaneous melanoma, (404) 82
 Human dermal fibroblast, (413) 70; (419) 166
 Human Edg3, (417) 279
 Human erythrocyte, (408) 52; (409) 333
 Human erythrocyte pyrimidine-specific phosphotransferase, (419) 263
 Human fetal membrane, (417) 337
 Human fibroblast, (412) 48
 Human genome, (417) 1
 Human genomic DNA, (412) 325
 Human growth hormone, (410) 289
 Human heart, (412) 465
 Human IgM repertoire, (414) 7
 Human immunodeficiency virus, (418) 15
 Human immunodeficiency virus type 1, (415) 227, 231
 Human interleukin-11 receptor, (407) 141
 Human islets of Langerhans, (409) 375
 Human kidney, (419) 107
 Human kidney HEK293 cell, (407) 121
 Human laminin, (417) 65
 Human leukemia, (400) 15
 Human leukocyte elastase, (404) 245
 Human liver, (410) 407
 Human lysozyme, (415) 285
 Human milk, (412) 515; (416) 23
 Human monocyte, (404) 19
 Human neonatal aortic smooth muscle cell, (407) 116
 Human ocular ciliary body, (413) 349
 Human pancreatic phospholipase A₂, (407) 343
 Human papillomavirus, (416) 6
 Human placental microsome, (409) 396
 Human platelet, (403) 26; (413) 255
 Human polymorphonuclear leukocyte, (412) 461
 Human prion protein, (417) 400
 Human ribonuclease, (404) 1
 Human serum albumin, (406) 151; (411) 215
 Human skin fibroblast, (408) 289
 Human synovioocyte, (414) 159
 Human T-lymphocyte, (417) 292
 Human Tom20, (403) 309
 Human urine, (417) 307
 Human uterine cervix, (402) 223; (417) 337
 Hyaluronan, (404) 56; (410) 413; (418) 6
 Hyaluronate, (402) 223
 Hyaluronate metabolism, (402) 223
 Hyaluronectin, (418) 6
 Hyaluronidase, (413) 385; (417) 307; (418) 6
 Hybrid tRNA site, (406) 223
 Hydra, (412) 540
 Hydration state, (413) 81
 Hydrogen exchange rate, (418) 127
 Hydrogen peroxide, (401) 271; (403) 213; (406) 93; (407) 230; (410) 309; (414) 247, 552; (416) 77; (419) 201
 Hydrogen peroxide regeneration, (411) 269
 Hydrogenosome, (408) 147
 Hydrolase, (407) 197
 Hydroperoxide, (406) 37; (408) 241
 Hydrophilicity, (408) 232
 Hydrophobic cluster analysis, (400) 25
 Hydrophobic matching, (412) 15
 Hydrophobic moment, (403) 208; (417) 135
 Hydrophobic packing, (410) 141
 Hydrophobic peptide-attached lysozyme, (415) 114
 Hydrophobic probe binding, (405) 260
 Hydrophobicity, (403) 208; (405) 21
 Hydrophobization, (415) 285
 Hydroquinone oxidation, (412) 257
 Hydrostatic pressure, (416) 1
 Hydroxamic acid-based inhibitor, (414) 14
 3-Hydroxybenzoate:CoA ligase, (420) 143
 1 α -Hydroxylase, (419) 45
 25-Hydroxycholesterol, (401) 68
 Hydroxyl radical, (400) 108; (416) 286; (418) 87
 Hydroxy-L-arginine, (401) 123
 8-Hydroxy-2'-deoxyguanosine, (409) 287; (417) 150
 4-Hydroxy-2-nonenal, (405) 11, 21
 (Hydroxy)proline-rich glycoprotein, (405) 95
 Hydroxyquinol 1,2-dioxygenase, (407) 69
 25-Hydroxyvitamin D₃, (419) 45
 Hyperfine interaction, (400) 247
Hypericum androsaemum cell culture, (420) 143
 Hyperosmotic shock, (403) 23
 Hypertension, (410) 29; (412) 285
 Hyperthermophile, (406) 142
 Hyperthermophilic archaeon, (415) 329
 Hyperthyroidism, (418) 323
 Hypochlorous acid, (411) 157; (414) 541
 Hypoosmotic shock, (401) 202
 Hypotensive peptide, (414) 105
 Hypothalamus, (402) 273
 Hypothyroidism, (418) 171
 Hypoxia, (417) 75; (419) 137
 ICE, (402) 36
 Ice, (412) 241
 ICE family, (419) 49
 Ice nucleation protein, (409) 227
 ICRF-193, (406) 267
 Ifosfamide, (412) 157
 IgA1 protease, (405) 86
 IgE, (402) 167
 IGF-I, (420) 97
 IgG antibody, (416) 23
 IHF, (414) 373
 IkB, (414) 419; (416) 273
 IkB cytoplasmic anchor protein, (400) 45
 IkB α , (417) 297
 IL-13 binding protein, (401) 163
 IL-13 signal transduction, (401) 163
 IL-1 β , (410) 238; (419) 276
 IL-2 mRNA, (402) 213
 IL-2 production, (402) 213
 IL-3, (412) 161
 IL-4 receptor complex, (401) 163
 IL-5, (412) 161
 IL-6 receptor, (408) 182

- Image processing, (405) 195
 Imaging, (414) 55
 Imidazolone, (407) 297
 Imipramine, (418) 39
 Immortalised rat brain endothelial cells, (417) 395
 Immune antigen receptor-like molecule, (411) 327
 Immunoaffinity chromatography, (402) 277
 Immunoblotting, (418) 83
 Immunocytochemistry, (415) 139; (420) 57
 Immunofluorescence, (407) 361
 Immunoglobulin, (414) 33
 Immunoglobulin superfamily, (411) 327
 Immunoliposome, (413) 177
 Immunolocalization, (418) 229
 Immunology, (407) 164
 Immunomodulation, (403) 116
 Immunophilin, (414) 69
 Immunoprecipitation, (410) 153; (417) 365
 Immunopurification, (405) 345
 Immunosuppressant, (413) 354
 Immunotherapy, (409) 91
 Immunotoxin, (407) 275
 Import, (417) 321
 Import receptor, (403) 309
 Importin, (419) 249
 Importin α , (416) 30; (417) 104
 In situ hybridization, (400) 215; (401) 59; (402) 28; (407) 132; (411) 12; (415) 134; (417) 53, 208, 371
 In vitro expression, (407) 235
 In vitro motility assay, (409) 380
 In vitro mutagenesis, (409) 307; (417) 219
 In vitro reconstitution, (405) 95
 In vitro slippage, (418) 251
 In vitro transcription, (410) 461
 In vitro translation, (401) 252; (410) 153; (415) 6
 In vitro translocation, (413) 109
 In vitro virus, (414) 405
 In vivo, (412) 511; (417) 270
 In vivo animal model, (408) 187
 In vivo electron spin resonance, (419) 99
 In vivo, bacterial β -galactosidase and human dystrophin genes, (414) 319
 INAD, (413) 243
inaI sequence, (414) 590
 Inclusion body, (405) 224
 Indole-3-acetic acid, (409) 273
 Indoleglycerol phosphate synthase, (403) 268
his-Indolylmaleimide, (412) 9
 Induced volatile biosynthesis, (416) 143
 Inducible expression, (411) 317
 Inducible nitric oxide synthase, (403) 40
infB, (419) 281
 Infection, (415) 64
 Inflammation, (409) 147; (410) 413; (412) 526; (413) 354
 Influenza virus, (404) 192; (418) 315
 Influx, (412) 201
 Infrared, (407) 285
 Inherited retinal degeneration, (412) 21
 Inhibition, (401) 259; (402) 259; (411) 7; (413) 35; (414) 271
 Inhibition constant, (404) 245
 Inhibition kinetics, (412) 551
 Inhibition of in vitro protein synthesis, (406) 97
 Inhibition of lipid peroxidation, (415) 125
 Inhibition of translation, (402) 50
 Inhibitor, (408) 85; (412) 153; (414) 182, 562; (415) 101; (416) 230
 Inhibitory domain, (416) 135
 Inhibitory mechanism, (406) 223
 Inhibitory protein, (410) 356
 Inhibitory signal induction, (410) 17
 Initiation factor, (410) 418; (418) 327
 Initiation factor IF2, (419) 281
 Initiator, (411) 189
 Injury, (412) 526
 INK4, (401) 127
 Innate immunity, (416) 273
 Inner membrane protein, (408) 1
INO2, (415) 16
 Inorganic pyrophosphatase, (410) 502
 iNOS, (408) 33
 Inositol, (407) 257; (411) 211
 Inositol (1,4,5)-trisphosphate, (407) 309
 Inositol 1,4,5-trisphosphate, (414) 89
myo-Inositol 1,4,5-trisphosphate receptor, (402) 241
 Inositol 5-phosphatase, (419) 175
 Inositol phosphate, (405) 229
 Inositol phosphate metabolism, (413) 75
 Inositol phospholipid, (410) 3
 Inositol trisphosphate, (403) 1
 Inositol trisphosphate 3-kinase B, (403) 1
 Ins(1,4,5)P₃, (410) 39
 Insect, (413) 157
 Insect cell, (409) 166; (419) 124
 Insect immunity, (408) 127; (419) 83
 Insect midgut, (411) 239
 Insect sodium channel, (405) 77
 Insecticidal crystal protein, (411) 27
 Insecticide, (407) 261
 Insertion sequence, (413) 453; (415) 40
 Insertional mutagenesis, (402) 177
 Ins-P₃, (405) 229
 Insulin, (402) 9, 246; (403) 159; (406) 119, 211, 243; (409) 171; (410) 3, 418; (411) 351; (413) 152; (416) 27, 307, 364; (417) 81, 283; (419) 13
 Insulin action, (401) 99; (409) 461
 Insulin gene, (413) 304; (418) 68
 Insulin receptor, (404) 37; (415) 243; (418) 119
 Insulin receptor kinase, (400) 65
 Insulin receptor substrate-1, (418) 119
 Insulin resistance, (401) 99; (418) 119
 Insulin secretion, (401) 99; (415) 1, 179; (417) 235
 Insulin-like growth factor I, (409) 63; (416) 259, 307; (417) 13, 235
 Insulin-like growth factor binding protein-1, (416) 259
 Insulin-like growth factor II, (416) 344; (419) 161
 Insulin-like growth factor-binding protein-5, (409) 63
 Insulin-like growth factor-I receptor, (416) 259
 Insulin-regulated glucose transporter, (407) 329
 Integration, (405) 305
 Integrin, (400) 297; (414) 221; (416) 212; (417) 101
 $\alpha 4 \beta 1$ Integrin, (418) 337
 $\alpha_{IIb} \beta_3$ Integrin, (404) 23
 Integrin activation, (418) 337
 Intein, (408) 311
 Interaction, (403) 197; (411) 60
 Intercalating agent, (405) 141
 Intercalator, (419) 27
 Inter-chain interaction, (418) 363
 Interfacial activation, (404) 159
 Interferon, (404) 197; (405) 148; (414) 219; (415) 160; (418) 315
 Interferon receptor, (404) 197
 Interferon signaling, (403) 31
 Interferon- γ , (408) 33; (414) 61
 Interleukin 1 receptor, (402) 81
 Interleukin-1, (403) 61; (405) 213; (418) 144
 Interleukin-1 receptor accessory protein, (419) 41
 Interleukin-1 receptor associated kinase, (419) 41
 Interleukin-1 signalling, (419) 41
 Interleukin-13, (414) 61
 Interleukin-1 α , (411) 83
 Interleukin-1 β , (417) 235
 Interleukin-1 β converting enzyme, (406) 189
 Interleukin-1 β converting enzyme-like protease, (401) 148
 Interleukin-3, (406) 157
 Interleukin-4, (414) 61
 Interleukin-5, (406) 315; (410) 368
 Interleukin-6, (404) 234; (409) 79; (411) 83; (413) 81; (418) 149
 Interleukin-8, (415) 169
 Intermediate compartment, (404) 75
 Intermediate filament, (417) 316
 Intermediate filaments, (413) 371
 Intermediate in transposition, (413) 453
 Internal promoter, (418) 157
 Internalization, (418) 83
 Intestinal absorption, (411) 7
 Intracellular Ca²⁺ activity, (415) 1
 Intracellular calcium, (403) 191; (413) 323
 Intracellular chloride concentration, (400) 113
 Intracellular compartmentation, (419) 206

- Intracellular free Na⁺ concentration, (410) 387
 Intracellular iron trafficking, (416) 139
 Intracellular pH, (408) 75
 Intracellular PTP, (404) 37
 Intracellular transport, (414) 177
 Intracisternal A-particle, (418) 205
 Intracranial aneurysm, (404) 303
 Intradiol dioxygenase, (407) 69; (416) 61
 Intramitochondrial sorting, (411) 195
 Intramolecular reaction, (412) 518
 Intrinsic fluorescence, (405) 273
 Intron, (407) 132, 177
 Intron homing, (415) 75
 Invariant chain, (401) 259
 Invasion, (400) 149; (408) 121
 Inverse agonism, (419) 171
 Invertase, (401) 1
 Invertebrate, (400) 2; (407) 153; (417) 48
 Inward K⁺ channel, (408) 115
 Inward rectifier, (401) 59; (409) 232, 277
 Inwardly rectifying K⁺-channel, (419) 92
 Iodide efflux, (417) 395
 2-[¹²⁵I]Iodomelatonin binding, (407) 121
 6β-Iodopenicillanic acid, (400) 155
 Ion channel, (405) 299; (410) 397; (411) 115; (412) 236, 270, 621; (414) 140; (416) 187
 Ion channel activation, (404) 56; (413) 294
 Ion (Na⁺) transport, (408) 271
 Ionic channel, (414) 303
 Ionic current, (408) 261
 Ionic homeostasis, (412) 1
 Ionisation state, (402) 157
 Iron, (400) 259; (403) 213; (410) 195; (411) 373
 Iron chelation, (416) 123
 Iron metabolism, (411) 93
 Iron reduction, (414) 571
 Iron uptake regulation, (413) 473
 Iron-sulfur, (409) 421; (414) 209
 Iron-sulfur cluster, (412) 501; (416) 349; (417) 223
 IS/240, (415) 40
 IS231, (404) 148
 IS30, (413) 453
 Ischemia, (401) 247; (414) 117; (420) 201
 Islet cell, (411) 383
 Islet glucokinase, (406) 109
 Islet of Langerhans, (405) 219; (413) 119, 304; (417) 235
 Isoform, (401) 223; (407) 141; (409) 452; (414) 258; (415) 101; (416) 291
 Isolated hepatocyte, (410) 329
 Isolation, (400) 221; (404) 241
 Isopenicillin N synthase, (405) 172, 191
 Isopentenyl diphosphate, (400) 271; (414) 129
 Isoprene, (414) 129
 Isoprenoid biosynthesis, (414) 129
 Isoprenylation, (409) 24
 3-Isopropylmalate dehydrogenase, (410) 141
 Isoproterenol, (402) 12; (412) 79
 Isozyme, (417) 307
 Jak kinase, (403) 31
 JAK3, (419) 186
 Janus kinase, (408) 327
 Jasmonate-induced protein, (414) 197
 Jasmonate-inducible 23 kDa protein, (419) 58
 Jasmonic acid, (401) 239; (412) 61; (416) 143
 Jasmonic acid conjugate, (407) 105
 Jasmonic acid signalling, (414) 197
 Jasmonoyl phenylalanine, (401) 239
 JC-1, (411) 77
 JNK, (414) 153
 JNK1, (412) 9
 Jun, (410) 191
 Jun N-terminal kinase, (417) 301; (418) 135, 144
 Jurkat cell, (405) 163
 Jurkat T-cell line, (414) 501
 Juvenile visceral steatosis mouse, (408) 221
 Juxtacrine stimulation, (403) 159
 K protein, (403) 113
 K⁺, (416) 207
 K⁺ channel, (409) 277; (414) 435; (415) 206
 K⁺ uptake, low affinity, (415) 206
 K562, (405) 107
 Kainic acid receptor, (406) 114
 K_{ATP} channel, (401) 59; (411) 255
 K_{ATP} channel antagonists, (409) 292
 KB cell, (413) 147
 KB-3-1, (412) 201
 KB-V1, (412) 201
 KDEL receptor, (404) 75
 KDEL retention signal, (415) 235
 Keratin, (407) 25; (417) 316
 Keratinocyte, (408) 43
 Keratinocyte differentiation, (414) 140
 β-Ketoacyl-ACP synthase, (402) 62
 6-Ketocholestanol, (411) 365
 KH domain, (403) 113
 Ki-autoantigen, (413) 27
 Kidney, (404) 185; (410) 378; (412) 511, 597; (417) 287
 Killifish (or medaka, *Oryzias latipes*), (411) 12
 Kinase, (402) 73; (406) 101; (410) 361
 Kinase anchor, (409) 24
 Kinase assay, (403) 200
 Kinase inhibitor, (411) 236
 Kinase negative mutant, (400) 65
 Kinase-negative mutant, (408) 109
 Kinesin, (409) 29
 Kinetic constant, (404) 245; (412) 425; (414) 271
 Kinetic difference, (405) 125
 Kinetic modeling, (418) 11
 Kinetics, (405) 125
 Kinetin, (412) 61; (414) 457
 Knock-down resistance (*kdr*), (413) 327
 Kringle4, (412) 388
 Kv4.3 splice variant, (420) 47
 Kynurenic acid, (408) 5
 Kynurenine, (408) 5
 Kynurenine 3-monooxygenase, (410) 407
 Kynurenine pathway, (410) 407
 Kyotorphin, (407) 73
 L1, (406) 11
 L5, (403) 197
 Lac repressor, (410) 461
 Laccase, (407) 89; (413) 446
 Laccase-less mutant, (407) 89
 Lactacystin, (412) 65
 α-Lactalbumin, (412) 625; (417) 153
 Lactam bridge, (413) 215
 β-Lactamase, (401) 138; (406) 275; (413) 194; (419) 18
 β-Lactamase I from *Bacillus cereus*, (400) 155
 Lactation, (401) 117
 Lactoferrin, (416) 139
 β-Lactoglobulin, (402) 99; (412) 515
 lacZ fusion, (420) 39
 Lamellar structure, (409) 188
 Laminin, (400) 71; (408) 341; (411) 296; (412) 211; (418) 63
 Laminin α2 chain, (415) 33
 LA-N-2, (401) 83
 Lantibiotic, (410) 275
 Laser flash photolysis, (417) 261
 Late histone, (407) 101
 LDL, (413) 202
 LDL cholesterol, (410) 254
 [¹²⁵I]LDL degradation, (414) 576
 LDL oxidation, (406) 37; (409) 223
 Leader peptidase, (413) 109
 Leber hereditary optic neuropathy, (412) 351
 Leber's disease, (412) 351
 Lectin, (405) 107; (406) 255, 296; (408) 355; (413) 389; (414) 79
 Lectin activity, (407) 271
 Leech excitatory peptide, (410) 437
 Legume lectin, (405) 114
 Leptin, (401) 49; (402) 9; (403) 79; (404) 185; (405) 237; (407) 239; (411) 351; (415) 134; (418) 323
 Leptin injection, (402) 185

- Leptin receptor, (411) 351; (415) 179
 Leptin receptor mRNA, (402) 185
 Leptomeninx, (417) 53
 Leucine zipper, (409) 183; (417) 409
 Leucine-rich repeat filament, (412) 397
 Leukemia, (402) 36; (414) 146; (417) 360
 Leukemia cell, (412) 94
 Leukemia inhibitory factor, (404) 234
 Leukemia/cell cycle, (409) 41
 Levocabastine, (400) 211
 Lewis^x, (415) 186
 Leydig cell, (407) 225; (419) 186
 LHCH kinase, (411) 236
 'Lid' domain, (404) 82
 LIFR, (403) 79
 Ligand binding, (410) 223; (411) 389; (412) 43
 Ligand specificity, (409) 105
 Ligand-binding domain, (412) 355
 Ligand-free form, (410) 280
 Light chain, (407) 280; (413) 359; (416) 23
 Light harvesting antenna, (410) 428
 Light quality, (406) 89
 Light-harvesting complex, (402) 151; (410) 433
 Lignin, (413) 446
 Lignin degradation, (407) 89
 Limited proteolysis, (401) 235
 Lingual epithelium, (414) 461
 Link module, (410) 413
 Linoleic acid, (408) 324
N-Linoleoyl amide, (411) 287
N-Linoleoyl ethanolamide, (411) 287
 Linsidomine, (406) 66
 Lipase, (403) 259; (404) 82
 Lipid, (408) 191
 Lipid bilayer, (415) 299; (416) 103
 Lipid binding, (400) 51
 Lipid body, (406) 1
 Lipid carrier, (400) 252
 Lipid kinase, (416) 57
 Lipid peroxidation, (403) 213; (405) 11, 21, 26; (408) 297; (413) 202, 289, 467; (416) 123
 Lipid repair, (407) 249
 Lipid transfer protein, (410) 338
 Lipid vesicle, (417) 243
 Lipid-peptide interaction, (416) 265
 Lipocalin, (416) 276
 Lipofectin, (414) 187
 Lipoic acid, (408) 217
 Lipolysis, (404) 111
 Lipophilic drug, (418) 15
 Lipopolysaccharide, (400) 315; (403) 131; (408) 127; (409) 457; (411) 221
 Lipoprotein, (405) 55; (414) 507
 Lipoprotein oxidation, (409) 265
 Lipoprotein, high density, (403) 70
 Lipoprotein, low density, (403) 70
 Liposome, (402) 107, 116; (413) 177; (414) 414
 Liposome aggregation, (402) 91
 Lipoxigenase, (402) 162; (406) 1; (408) 241; (409) 17; (411) 287; (415) 313
 12-Lipoxigenase, (414) 159
 Lipoxigenase-1, (406) 184
 Lithium, (411) 183
 Lithium tolerance, (405) 119
 Liver, (403) 131; (412) 511; (418) 144
 Liver fatty acid-binding protein, (412) 480
 Liver glucokinase, (406) 109
 Liver injury, (411) 378
 Liver metabolism, (406) 119
 Liver mitochondria, (411) 365; (412) 179
 Liver mitochondrion, (420) 167
 Liver stellate cell, (411) 102
 Loach, (411) 173
 Local proteolysis, (413) 11
 Localization, (405) 119; (415) 235; (416) 153
 Localized mRNA, (410) 499
 Lon, (414) 402
 Long terminal repeat, (410) 301
 Longhorn sculpin, (402) 17
 Long-term potentiation, (412) 183
 Lovastatin, (410) 254
 Low temperature, (401) 153
 Lowaffinity, (400) 211
 Low-density lipoprotein (LDL), (401) 230, 262; (403) 154; (405) 186, (409) 177; (413) 202, 289; (414) 541
 Low-density lipoprotein receptor, (401) 53
 Low-frequency stimulation, (403) 279
 LPL, (414) 507
 L-Selectin, (418) 310
 L-Selectin antagonist, (419) 220
 L-type Ca²⁺ channel, (408) 75
 L-type pyruvate kinase, (417) 81
 Lucifer yellow, organic anion, (420) 86
 Luciferase, (400) 233; (417) 329
 Luciferase assay, (418) 315
 Lucigenin, (403) 127
 LukS, (415) 96
 Lung cancer, (409) 287
 Lung infection, (405) 200
 Luteinizing hormone receptor, (402) 198
 Ly-6E.1, (403) 181
Lycopersicon esculentum, (407) 357; (409) 211
 Lymph node, (400) 319
 Lymphatic system, (400) 319
 Lymphocyte, (407) 59, 313; (408) 47; (418) 195, 310
 Lymphokine, (410) 131
 Lysine binding site, (405) 363
 Lysine cluster, (414) 182
 (Lyso) L- α -phosphatidyl-inositol 4-monophosphate, (416) 57
 (Lyso) phosphatidic acid, (416) 57
 Lysophosphatidic acid, (410) 54; (419) 4
 Lysophosphatidic acid receptor, (419) 4
 Lysophospholipase, (405) 369
 Lysoplasmenylcholine, (420) 33
 Lysosomal enzyme, (412) 149
 Lysosomal membrane destabilization, (417) 199
 Lysosomal membrane protein, (405) 86
 Lysosome, (419) 231
 Lysosphingolipid, (417) 279
 Lysozyme, (411) 161; (416) 72, 369; (418) 363; (419) 83
 Lysyl oxidase, (419) 63
 M1 RNA, (407) 353
 mAb-PKC β , (413) 152
 α_2 -Macroglobulin, (410) 249; (416) 193
 Macrophage, (400) 315; (402) 213; (405) 55; (409) 147; (412) 30, 227; (413) 81; (414) 61, 576; (418) 235
 Macrophage differentiation, (415) 160
 Macrophage migration inhibitory factor, (414) 226; (417) 85
 Macrophages, (410) 259
 Macular degeneration, (409) 247
 MAD, (412) 346
 Magamin, (400) 158; (403) 208; (417) 135
 Magnesium, (410) 387
 Magnesium-binding site, (409) 128
 Maillard reaction, (410) 313
 Maize, (408) 25; (413) 169
 Major urinary protein, (401) 73
 Malaria, (402) 236; (406) 123; (409) 67, 297; (412) 318
 Malate metabolism, (410) 452
 Malate transport, (410) 452
 MALDI mass spectrometry, (405) 345
 MALDI-MS, (404) 279
 MALDI-TOF mass spectrometry, (414) 74
 MalK, (413) 211
 Malolactic enzyme, (410) 452
 Malolactic fermentation, (410) 452
 Malondialdehyde, (401) 167
 Maltase, (402) 251
 Maltose permease, (402) 251
 Maltose-binding protein, (411) 231
 Mammalian cell, (414) 537
 Mammary epithelial cell, (401) 117; (413) 65
 Mammary gland, (409) 86; (417) 385
Manduca sexta, (400) 345
 Manganese, (401) 15

- Manganese complex, (400) 259
 Manganese containing superoxide dismutase, (416) 69
 Mannan, (416) 203
 Mannose 6-phosphate, (405) 111
 Mannose-1,6-bisphosphate, (401) 35
 Mannose-binding protein, (414) 387
 Mannosylphosphate, (420) 186
 Mannosyltransferase, (412) 547
 MAP kinase, (400) 119, 163; (407) 343; (410) 481; (412) 197; (413) 417; (414) 153
 MAP kinase kinase, (409) 171
 MAP kinase kinase 3, (403) 19
 MAP kinase kinase 3b, (403) 19
 MAPK, (403) 57; (408) 292
 Marcus equation, (412) 305
 Mass spectrometry, (400) 19; (403) 10; (407) 42; (412) 551; (413) 215; (416) 197; (417) 17; (420) 129, 179
 Mast cell, (413) 249, 436, 486
 Mastoparan, (411) 356
 Mating, (419) 259
 Matrilin, (413) 129; (415) 212
 Matrix, (415) 231
 Matrix attachment region, (415) 91
 Matrix metalloproteinase, (402) 219; (406) 28; (414) 562; (417) 337; (418) 305
 Matrix metalloproteinase-9, (418) 19
 Maxi-K channel, (415) 67
 MC3T3-E1, (406) 310
 MCF7, (412) 201
 MCF-7 cell, (413) 147
 MCF7/ADR, (412) 201
 MDCK cell, (412) 30
 MDCK-II cell, (405) 167
 MDM2, (420) 25
 MDR gene expression, (412) 201
 MDR1, (411) 255
mdx myotube, (408) 341
 ME kinase-H, (413) 417
 Measles virus, (410) 191
 Mechanical stimulation, (400) 58
 Mechanical stimuli, (408) 331
 Mechanism-based inhibition, (414) 359
Medicago sativa, (418) 229
 Medullary thyroid carcinoma, (419) 76
 Megachannel, (410) 373
 Megakaryoblastic cell, (403) 26
 Megakaryocyte, (403) 83
 Meiosis induction, (413) 16
 MEK, (403) 57
 Melanocortin (MC) receptor, (410) 223
 Melanoma, (419) 95
 Melanoma cell, (407) 25
 Melatonin, (408) 297; (412) 79; (413) 289; (416) 103
 Melatonin receptor, (407) 121
 Melittin, (410) 285
 Membrane association, (420) 151
 Membrane binding, (409) 300
 Membrane capacitance, (411) 356
 Membrane deformation energy, (412) 15
 Membrane domain, (401) 43
 Membrane electroporation, (415) 81
 Membrane fluidity, (408) 297
 Membrane fusion, (404) 34, 164; (410) 343
 Membrane heat shock protein, (418) 123
 Membrane insertion, (414) 95
 Membrane interaction, (400) 149; (405) 351
 Membrane potential, (412) 405
 Membrane protein, (401) 113; (408) 11; (413) 109; (416) 359; (419) 18, 235
 Membrane protein cluster, (413) 243
 Membrane protein structure, (404) 208
 Membrane receptor, (407) 211
 Membrane target, (410) 269
 Membrane topology, (402) 1; (409) 317
 Membrane traffic, (402) 57; (413) 395
 Membrane type 1 matrix metalloproteinase, (402) 181
 Membrane type matrix metalloproteinase, (402) 219
 Membrane vesicle, (402) 57
 Menaquinone, (404) 272
 Menkes disease, (412) 165
 Mercury, (408) 30
 Merosin, (408) 341
 MerP, (411) 359
 Mesenchyme cell, (408) 171
 Metabolic control analysis, (418) 47
 Metabolic inhibitor, (400) 113
 Metabolism, (401) 227; (410) 329
 Metabolism of carbohydrates, (419) 197
 Metabotropic glutamate receptor, (418) 83
 Metal binding, (400) 51; (417) 145
 Metal cation binding site, (416) 167
 Metalloenzyme, (400) 336
 Metalloprotease, (400) 333; (401) 235; (414) 14
 Metalloproteinase, (402) 111; (404) 283; (415) 329
 Metallothionein, (404) 41, 216; (416) 254; (420) 69
 Metastasis, (403) 181; (409) 347; (418) 19
Methanobacterium thermoautotrophicum, (410) 235
 Methanogen, (414) 209; (420) 93
 Methanogenesis, (410) 235
 Methionine biosynthesis, (414) 492
 Methionine oxidation, (414) 514
 Methotrexate, (407) 127
 Methyl coenzymeM reductase, (410) 235
 Methyl ester, (412) 245
 2-Methyl-6-(*p*-methoxyphenyl)-3,7-dihydroimidazo[1,2-*a*]pyrazin-3-one, (412) 461
 Methylene Blue, (412) 157
 Methylene tetrahydromethanopterin dehydrogenase, (410) 235
 Methylglyoxal, (410) 313
 5-Methylimidazolone, (410) 313
 5'-Methylthioadenosine phosphorylase, (402) 102
 Mevalonate, (401) 68; (414) 129
 MHC, (409) 91
 MIAPaCa-2, (407) 343
 Mibolerone, (405) 328
 Mica, (414) 233
 Micelle, (415) 145
 Microbial ferric binding protein, (416) 139
 Microbody, (412) 138
 Microcalorimetry, (409) 385
 Microdissection, (407) 127
 Microfibril, (413) 424
 Microfibrillar protein, (411) 164
 Microfilament, (403) 123; (411) 291
 Microglia, (416) 175
 β_2 -Microglobulin, (405) 148
 Microinjection, (406) 315; (408) 327
 Micromorphology, (414) 393
 Microsequencing, (417) 307; (420) 125
 Microsomal fraction, (403) 168
 Microsome, (408) 297
 Microspectrofluorimetry, (400) 113
 Microtubule, (404) 221; (414) 135; (416) 149; (418) 35; (420) 125
 Microtubule assembly, (409) 57
 Microtubule-associated protein, (403) 123; (413) 260
 Microtubule-associated protein 2, (418) 35
 Microtubule-associated protein 4, (418) 35
 Microwave radiation, (402) 102
 Midchain β 1,6-GlcNAc transferase, (419) 220
 Migraine, (406) 33
 Migration, (400) 119
Min mouse, (419) 239
 Minimum inhibitory concentration, (406) 275
 Minisatellite, (418) 251
 Minor groove width, (418) 76
Misgurnus anguillicaudatus, (411) 173
 Mistletoe lectin 1, (402) 91
 Mithramycin, (420) 156
 Mitochondrial binding, (403) 279
 Mitochondrial biogenesis, (407) 249
 Mitochondrial channel, (409) 361
 Mitochondrial chloride store, (400) 113
 Mitochondrial disease, (412) 351
 Mitochondrial DNA, (410) 467; (418) 167
 Mitochondrial electron transport chain, (412) 265
 Mitochondrial FAS, (408) 217

- Mitochondrial function, (409) 96
 Mitochondrial iron homeostasis, (418) 346
 Mitochondrial membrane, (401) 158
 Mitochondrial membrane potential, (411) 77; (414) 365; (415) 21; (418) 291
 Mitochondrial protein Oxa1p, (418) 367
 Mitochondrial respiration, (407) 249; (418) 291
 Mitochondrial suffering, (418) 167
 Mitochondrial transmembrane potential, (410) 373
 Mitochondria-rich cells, (405) 91
 Mitochondrion, (403) 309; (404) 314; (405) 345; (407) 220; (409) 320, 365; (410) 145; (411) 110, 195, 373; (412) 157, 173; (413) 40; (414) 69, 253, 281; (415) 21, 29, 294, 341; (416) 15, 19; (417) 321; (418) 131, 282; (419) 1, 137
 Mitogen activated protein, (415) 71
 Mitogen-activated protein kinase, (412) 290, 420; (417) 283; (418) 144, 149, 327; (420) 201
 Mitogen-activated protein kinase kinase 7, (418) 144
 Mitogenesis, (418) 287
 Mitosis, (402) 141; (418) 229
 Mitotic phosphorylation, (413) 417
 Mixe Indian traditional medicine, Mexico, (402) 85
 MKN45 cells, (414) 333
 MMP-2, (405) 157; (406) 28
 MMP-3, (418) 305
 MMP-9, (402) 111; (405) 157; (406) 28
 MND, (408) 151
 Mobile element, (413) 7
 Mode of action, (414) 303, 313; (420) 121
 Model, (409) 431
 Model building, (407) 303
 Model by homology, (409) 121
 Model of activation, (409) 469
 Model-free analysis, (413) 409
 Modeling, (416) 93; (418) 47
 Modification, (400) 42
 Modified base, (416) 286
 Modified deoxynucleoside 5'-triphosphate, (410) 423
 Modular phosphorylation, (410) 78
 Modulation, (408) 261; (412) 597
 Module, (405) 47
 Molecular chaperone, (401) 138; (402) 53; (406) 291; (409) 115, 307; (412) 633; (418) 139; (419) 244
 Molecular dynamics, (405) 47, 299
 Molecular evolution, (405) 47; (406) 216; (408) 147; (409) 357; (414) 377
 Molecular interaction, (412) 551
 Molecular model, (410) 117; (414) 485
 Molecular modeling, (404) 159; (416) 86
 Molecular motor, (409) 29
 Molecular phylogeny, (413) 333
 Molecular replacement, (403) 249; (404) 208
 Molecular thermometer, (407) 215
 Mollusc, (411) 119
 Molluscan hemocyte, (403) 236
 Molluscan smooth muscle, (409) 380
 Molt-4 cell, (415) 25
 Molten globule, (402) 67; (417) 92
 Molten globule state, (410) 280
Moluccella laevis, (406) 296
 Monellin, (413) 409
 Monkey, (412) 86
 Monoclonal antibody, (402) 277; (404) 279; (407) 141; (408) 124, 292; (409) 287; (412) 456; (413) 265; (414) 562; (416) 39, 193, 373; (417) 307; (420) 43
 Monocyte, (400) 315; (409) 177; (413) 477
 Monocyte chemoattractant protein, (400) 329
 Monocyte chemotactic protein-1, (414) 221
 Monocyte-macrophage (human), (401) 262
 Monocytic differentiation, (414) 146
 Monocytic lineage, (400) 350
 Monoheme cytochrome c, (412) 75
 Monooxygenase, (405) 153
 Morphine, (412) 35
 Mother's diet, (412) 515
 Motor activity, (401) 227
 Mouse, (406) 106; (411) 39; (412) 309; (413) 45
 Mouse brain, (416) 312; (417) 53
 Mouse c-Fos, (409) 269
 Mouse EAT cell, (412) 318
 Mouse filensin gene, (413) 371
 Mouse kidney, (401) 218; (417) 371
 Mouse liver, (416) 312
 Mouse MRP8/MRP14, (408) 81
 Mouse skeletal muscle, (414) 319
 Mouse testis, (402) 53
 Mox, (411) 119
 MPM-2 epitope, (413) 417
 mRNA, (400) 304; (412) 629
 mRNA degradation, (414) 362
 mRNA distribution, (417) 208
 mRNA export, (407) 132
 mRNA expression, (413) 349
 mRNA quantification, (406) 49
 mRNA regulation, (412) 121
 mRNA stability, (415) 11; (419) 268
 MRP, (402) 1
 MRSA, (415) 64
 MSH, (410) 223
 MT2-MMP, (402) 219
 MT-MMP, (412) 568
 Mts1, (410) 403
 Mu receptor, (412) 35
 Mucosal immunoadjuvant, (401) 95
 Mudfish, (411) 173
 Müller glia, (405) 245
 Müller's ratchet, (409) 320
 Multicatalytic, (412) 521
 Multicatalytic proteinase (20S proteasome), (405) 21
 Multidrug resistance, (401) 11; (413) 142, 344; (417) 119; (419) 112
 Multidrug resistance protein, (413) 344
 Multidrug resistance-associated protein, (401) 11; (406) 75
 Multienzyme complex, (413) 339
 Multifunctional proteins, (413) 50
 Multigene family, (415) 206
 Multiple endocrine neoplasia type 2, (419) 76
 Multiple sclerosis, (413) 477
 Multiple sequence alignment, (413) 364; (417) 253
 Multiple stress response, (412) 615
 Multiple symmetric lipomatosis, (401) 38
 Mu-opioid receptor, (415) 200
 Murine blood cell, (417) 61
 Murine D2 dopamine receptor (D₂, D₃, D₁), (420) 191
 Murine erythroleukemia cell, (400) 275
 Murine procathepsin E, cloning, (408) 62
 Murine procathepsin E, expression in *E. coli*, (408) 62
Mus musculus, (401) 38
 Muscarinic nerve, (406) 119
 Muscarinic receptor, (403) 299
 Muscle, (418) 47
 Muscle acylphosphatase, (417) 130
 Muscle cell, (408) 171
 Muscle contraction, (400) 31
 Muscle creatine kinase, (406) 271
 Muscle fibre types, (410) 150
 Muscle mechanics, (410) 150
 Muscle structure, (401) 65
 Muscular dystrophy, (403) 143; (415) 33
 Mutacin, (410) 275
 Mutagenesis, (400) 122, 206, 293; (405) 153, 172, 237; (409) 49; (411) 140; (412) 321; (414) 226, 263; (415) 192
 Mutation, (405) 209; (408) 151; (409) 115; (413) 226; (415) 285; (418) 162; (420) 11
 MxA, (418) 315
myb proto-oncogene, (413) 60, 162
Myc tag, (414) 33
Mycobacterium fallax, (406) 275
 Mycolic acid, (406) 275
 Mycothiol, (409) 221
 Myeloid leukemia, (409) 207
 Myeloma cell, (418) 337
 Myoactivity, (410) 437
 Myocardial contractility, (412) 79
 Myocardial infarction, (400) 177
 Myocardium, (403) 168
 Myocyte, (414) 576

- Myoglobin, (406) 37; (414) 576
 Myosin, (407) 93; (409) 380; (413) 349
 Myosin heavy chain, (420) 161
 Myosin heavy chain isoforms, (410) 150
 Myosin light chain, (408) 71
 Myosin rod, (409) 380
 Myosin subfragment-1, (407) 235
 Myotonic dystrophy, (412) 621
 Myr 5, (414) 599
Myxococcus xanthus, (400) 188
- N terminus, (410) 223
 Na⁺ current kinetics, (416) 11
 Na⁺ channel, (412) 94
 Na⁺ conductance, (400) 341
 Na⁺/K⁺-ATPase, (410) 387; (420) 107
 Na⁺/Ca²⁺ exchange, (419) 255
 Na⁺/e⁻ stoichiometry, (409) 475
 Na⁺/H⁺ antiporter, (405) 119
 Na⁺/H⁺ exchanger, (400) 99
 Na⁺/K⁺/2Cl⁻ cotransporter, (420) 191
 Na⁺/K⁺-ATPase, (419) 227
 Na⁺-F₁F₀, (404) 269
 Na⁺-motive NADH:quinone oxidoreductase, (409) 475
 Na⁺-translocating ATPase mutant, (420) 93
 Na,K-ATPase, (400) 206; (405) 281; (409) 391; (412) 1
 Na/Ca exchange regulation: MgATP, (401) 6
 NAD⁺ metabolism, (418) 355
 NADH:Fe(III)-chelate reductase, (414) 571
 NADH:ubiquinone oxidoreductase (EC 1.6.99.3), (407) 249
 NADP⁺, (412) 126
 NADPH oxidase, (403) 149
 NAD(P)H oxidase, (414) 545
 Nanoparticle, (402) 67
 Nanosphere, (400) 319
 Naphthol reductase, (400) 173
 Naringenin, (401) 239
 NARP syndrome, (412) 351
 Nascent peptide folding, (417) 329
 Natriuretic peptide, (418) 333
 Natriuretic peptide clearance receptor, (418) 333
 Natriuretic peptide receptor, (414) 263; (419) 255
 Natural antibody, (413) 231
 Nb₂, (410) 289
 NBD-Cl, (419) 227
 Ncd, (409) 29
 NCp7, (401) 197
 Necrosis, (410) 285; (414) 552
 Nef, (414) 603; (417) 61
 Negative air ions, (410) 309
 Negative regulation, (413) 162
Neisseria meningitidis, (413) 364; (414) 409; (417) 253
Neocallimastix, (408) 147
 Neokynorphin, (407) 73; (414) 125
 Nerve cell, (407) 313
 Nerve growth factor, (417) 173
 Nervous system, (412) 1; (417) 208
 Nesidioblastosis, (413) 304
 Netropsin, (420) 156
 Neural cell, (403) 287
 Neural cell differentiation, (414) 475
 Neural development, (417) 208
 Neurite extension, (411) 327
 Neuroblastoma, (400) 309; (401) 83; (402) 241; (419) 76; (420) 74
 Neuroblastoma cell, (410) 191; (414) 475
 Neurodegeneration, (412) 578; (413) 467; (414) 365
 Neuroendocrine, (404) 19
 Neurokinin A, (416) 335
 Neuromuscular junction, (403) 163; (418) 275
 Neuron, (410) 29; (414) 55; (415) 21
 Neuronal differentiation, (406) 11; (408) 131; (417) 6
 Neuronal nitric oxide synthase, (403) 75
 Neuronal phenotype, (420) 74
 Neuronal signaling, (407) 111
 Neuroprotection, (408) 5
 Neurotensin, (400) 211
 Neurotensin analogue, (418) 341
 Neurotoxic polypeptide (robustoxin), (419) 191
 Neurotoxin, (404) 1; (409) 339; (418) 1
 Neurotransmission, (417) 177
 Neurotransmitter transporter, (405) 133; (417) 177
 Neurotrophic factor, (417) 173
 Neutral endopeptidase 24.11, (411) 140
 Neutral sphingomyelinase, (414) 444
 Neutral trehalase Nth1p, (412) 615
 Neutralization, (412) 456
 Neutrophil, (408) 187; (412) 583; (415) 64; (417) 231
 Neutrophil migration, (420) 196
 Neutrophil motility, (420) 196
 NF-κB, (410) 297; (412) 277, 583; (414) 419; (418) 175
 NF-κB activation, (413) 354
 NF-κB p50–p65 subunit, (401) 30
 NF-κB P52, (405) 373, 394
 N-form, (405) 125
 NG108-15, (414) 343
 NG108-15 cell, (403) 91
 NGF, (416) 243
 Ni²⁺ inhibition, (403) 15
Nicotiana glauca, (416) 143
Nicotiana tabacum, (400) 355; (401) 202; (403) 149; (419) 58
 Nicotine, (418) 39
 Nicotinic receptor, (400) 309
 Nifedipine, (402) 259
 Nigrin b, (413) 85
 NIH3T3 fibroblast, (411) 317
 Nitrate, (413) 35
 Nitrate reductase, (414) 45
 Nitrate transport, (416) 179
 Nitric oxide, (400) 19, 285; (401) 123; (403) 273; (405) 37; (406) 66; (407) 148; (408) 131, 319; (409) 46, 147, 161, 223; (410) 160, 259, 470; (411) 39, 157; (412) 365; (413) 124, 236, 269, 314; (414) 61, 281; (415) 169, 299, 341; (417) 75, 231, 345; (418) 291
 Nitric oxide reductase, (412) 346
 Nitric oxide synthase, (403) 127; (405) 356; (406) 33; (408) 131; (409) 53; (411) 39; (412) 511; (417) 235
 Nitrite, (406) 66
 Nitrite reductase, (416) 51
 N^G-Nitro-L-arginine, (410) 319
 Nitrogen dioxide, (404) 175; (411) 157
 Nitrogen dioxide radical, (418) 91
 Nitrogen fixation, (404) 143; (417) 275
 Nitrogen metabolism, (410) 213
 Nitrogen monoxide, (404) 175
 Nitrogen source, (416) 179
 Nitrosomonas europaea, (410) 457
 Nitrotyrosine, (411) 157
 Nitroxyl radical, (419) 99
 NK cell lysis, (406) 83
 NK₁ receptor, (416) 335
 N-linked glycosylation, (415) 235
 nm23, (400) 75
 NMDA, (417) 345
 NMDA receptor, (405) 245; (407) 243; (411) 19
 NMR, (404) 153; (405) 111; (407) 243; (408) 191, 235; (412) 115; (413) 282; (414) 338; (415) 109; (418) 127; (419) 285
 NMR analysis, (416) 203
 NMR assignment, (417) 92
 NMR spectroscopy, (407) 291; (412) 485
 NMR, ¹H-spectroscopy, (417) 97
 2D NMR, (418) 76
¹⁹F-NMR, (402) 116
¹H NMR, (412) 501; (414) 203; (420) 97
¹H NMR spectroscopy, (412) 610
¹⁵N-NMR, (405) 16
³¹P-NMR, (409) 29, 457
 NO, (410) 238
 NO synthase activity, (410) 319
 NO synthase mRNA, (410) 319
Nocardia simplex, (407) 69
 Nociceptin receptor, (412) 290
 Nociceptin/orphanin FQ, (401) 227; (403) 91; (412) 253; (417) 333
 Nociception, (409) 426
 Nod factor, (409) 312
 nod gene, (409) 312
 NOD mouse, (416) 364
 Nodulin-100, (410) 126

- NOESY, (406) 131
 2D NOESY in water, (418) 76
 Non-heme iron center, (403) 283
 Non-heme iron dioxygenase, (405) 172
 Non-insulin-dependent diabetes mellitus model, (407) 329
 Non-invasive, (404) 299
 Non-parenchymal liver cell, (406) 305
 Non-reciprocal genetic exchange, (415) 75
 Non-redox-active metal, (409) 128
 Non-shivering thermogenesis, (406) 201; (417) 75
 Non-specific lipid transfer protein, (416) 130
 Non-structural protein 3, (402) 209
 Non-thermal effect, (402) 102
 Nordihydroguaric acid, (409) 17
 Norflurazone, (400) 359
 Northern blot analysis, (410) 383; (417) 53
 Northern blotting, (401) 252
 NOS gene expression, (410) 238
 Notexin, (403) 51
NotI jumping clone, (419) 181
NotI linking clone, (419) 181
 Notochord, (409) 201
 Novel variant, (413) 174
 NPAF, (409) 426
 NPFF, (409) 426
 NSF, (404) 34; (414) 349
 N-tail, (419) 18
 N-terminus, (416) 291
NTF1, (412) 615
 N-type calcium channel, (404) 203
 Nuclear, (403) 45
 Nuclear assembly, (413) 449
 Nuclear Ca^{2+} channel, (414) 89
 Nuclear factor κB , (400) 315; (401) 30; (418) 135, 215
 Nuclear gene, (409) 96
 Nuclear import, (412) 535
 Nuclear lamin, (401) 171
 Nuclear localization, (408) 47
 Nuclear localization signal, (409) 237; (413) 135; (416) 30
 Nuclear magnetic resonance, (401) 127; (406) 131, 175; (407) 42, 239; (411) 291; (415) 155, 221; (416) 130
 Nuclear magnetic resonance spectroscopy, (419) 191
 Nuclear matrix, (413) 449
 Nuclear Overhauser effect, (404) 234; (414) 84
 Nuclear phosphatase, (409) 33
 Nuclear pore-targeting complex, (416) 30
 Nuclear protein, (413) 50; (418) 23
 Nuclear protein import, (406) 315; (410) 368; (416) 30
 Nuclear receptor, (410) 87; (412) 480, 629
 Nuclear signaling, (417) 104
 Nuclear translocation, (417) 390
 Nuclear transport, (401) 109; (417) 104; (419) 249
 Nuclear tRNA^{Tyr} intron, (417) 213
 Nuclease, (406) 162
 Nucleic acid, (405) 141
 Nucleocapsid, (415) 231
 Nucleoplasm, (406) 61
 Nucleoprotein complex, (414) 393
 Nucleoside analogues, (410) 324
 Nucleoside diphosphate kinase, (400) 75; (418) 53; (419) 244
 Nucleosomal ladder, (414) 289
 Nucleosome, (400) 37; (403) 186; (417) 352
 Nucleotide, (406) 56; (418) 195
 Nucleotide binding fold, (407) 303
 Nucleotide binding site, (412) 169
 Nucleotide occupancy, (404) 15
 Nucleotide sequence, (400) 141; (404) 41; (413) 174; (418) 205
 Nucleus, (405) 181; (406) 61; (414) 135; (420) 57
 Nucleus of the solitary tract, (415) 134
 Nus factor, (415) 221
 NusB, (415) 221
 Nutraceutical, (402) 99
 Nutrient transporter, (417) 371
 Nystatin, (411) 211
 O₂ binding, (414) 545
 O₂ exchange, (416) 65
¹⁸O Labeling, (403) 10
 O-antigen, (411) 221
ob/ob mouse, (411) 351
 Obesity, (402) 9, 185; (407) 239; (415) 179; (418) 200
 OB-R, (401) 49; (403) 79
ocloc, (401) 207
 Oct-2 protein, (412) 5
 Oct-2 transcription factor, (416) 135
 Oct-sequence, (412) 5
 β -Octylglucoside, (401) 113
 Oculopharyngeal muscular dystrophy, (418) 167
 Odorant, (410) 29
 Odorant-binding protein, (414) 595
 Okadaic acid, (410) 347; (411) 183; (413) 147; (416) 230; (418) 179
 Ole e 6, (410) 293
OLE1, (413) 226
 Oleic acid, (419) 117
 Olfactomedin, (413) 349
 Olfactory neurons, (402) 259
 Oligodendrocyte, (413) 477
 Oligodeoxynucleotide, (400) 267; (407) 18
 β -1,2 linked Oligomannoside, (416) 203
 Oligomeric transmembrane complex, (410) 117
 Oligomerization, (405) 277; (409) 1, 283, 417
 Oligopyrimidine tract, (405) 333
 Olive pollen, (410) 293
 OmpR, (400) 238
 Oncogene, (413) 273
Oncorhynchus keta, (416) 344
 Oocyte, (412) 309, 495; (419) 92
 Oocyte expression, (411) 339
 Open field, (401) 227
 Operon, (412) 587
 Opioid, (412) 35
 Opioid and opioid receptor-like receptor, (417) 333
 Opioid peptide, (412) 475; (414) 27
 Opioid receptor, (403) 91; (412) 35, 253
 μ -Opioid receptor, (408) 135
 Opioid receptor-like 1 receptor (ORL₁), (403) 91
 Opioid receptor-like receptor 1 (ORL₁), (412) 253
 Opioid selectivity, (417) 141
 Opsin evolution, (406) 279
 Oracin, (400) 127
 Oral keratinocyte, (418) 287
Oreochromis mossambicus, (405) 91
 Organellar genome, (408) 147
 Organic anion, (406) 75
 Organic anion transport, (417) 287
 Organic anion transporter, (407) 127
 Organic cation transporter, (417) 371
 Organophosphonate inhibitor, (407) 347
 Organ-specific, (415) 91
 Ornithine carrier, (410) 447
 Ornithine decarboxylase, (405) 328
 Ornithine transcarbamylase, (403) 309
 Orthophosphate dikinase, (413) 169
 OSCP, (411) 97
 Osmoregulation, (403) 173; (417) 409
 Osmosensor, (400) 238
 Osmotic shock, (408) 331; (414) 353
 Osmotic stress, (410) 25
 Osteoarthritis, (412) 453
 Osteoblast, (414) 343; (420) 112
 Osteoblast differentiation, (404) 319
 Osteoblast proliferation, (406) 310
 Osteoblastic differentiation, (410) 238
 Osteoclast development, (402) 21
 Osteopontin, (414) 171; (420) 112
 Osteosarcoma cell line, (406) 83
 Osteosclerosis, (401) 207
 Otsuka Long-Evans Tokushima Fatty rat, (407) 329
 Ouabain, (400) 206; (409) 391; (414) 117
 Outer membrane, (409) 457; (411) 201
 Outer membrane protein, (415) 317
 Outer segment, (409) 247
 Outward-rectifying K⁺ channel, (405) 337
 Ovarian cancer cell line, (411) 322
 Ovary, (419) 4
 Overexpression, (415) 155

- Ovine placental lactogen, (410) 289
Oxalic acid degradation, (416) 197
Oxidant, (401) 230; (416) 381
Oxidase, (405) 191
o Oxidase, (414) 369
Oxidation, (409) 147; (410) 254; (414) 247, 457
 α -Oxidation, (412) 643
 β -Oxidation, (406) 1
Oxidative burst, (403) 149
Oxidative cross-linking, (405) 95; (420) 107
Oxidative damage, (403) 139; (414) 365; (417) 223
Oxidative DNA damage, (409) 287; (416) 286; (417) 150
Oxidative phosphorylation, (404) 15; (412) 157, 169
Oxidative stress, (403) 213; (405) 219; (409) 351; (410) 195, 219, 493; (413) 467; (414) 567; (416) 339; (417) 150; (418) 15, 247
Oxidized LDL, (405) 55; (409) 351
Oxidized low density lipoprotein, (414) 549, 576
Oxidizing agent, (416) 123
Oxygen, (408) 324; (409) 161; (417) 75
Oxygen binding, (408) 124
Oxygen evolution, (402) 41
Oxygen intermediate, (412) 405
Oxygen sensing, (416) 349
Oxygenase, (404) 115
Oxygenated polyunsaturated fatty acid, (406) 1
Oxygen-derived species, (416) 286
Oxygen-evolving complex, (400) 259
Oxygenic photosynthesis, (414) 454
Oxytomodulin, (410) 515
Oxypurinol, (409) 265
Oxysterol, (411) 63; (419) 276
Oyster, (407) 261
Ozone, (408) 241
- 2D-PAGE, (403) 173
P pili, (412) 115
P. lividus, (407) 101
p160^{ROCK}, (404) 118
p170, (420) 125
p19, (401) 127
P19 cells, (406) 11
P2 purinoceptor, (411) 339
p21-activated protein kinase α , (403) 23
p21^{WAF1/CIP1}, (404) 6
p27^{Kip1}, (411) 1
P₂-purinoreceptor, (419) 201
P2X receptor, (404) 294
P2Y₁ purinoceptor, (403) 26
p300, (414) 111
p34^{erbB2} kinase, (418) 229
p38, (414) 153
p38 MAP kinase, (403) 19
p41, (401) 259
p42^{ERK2}, (401) 49
p42^{MAPkinase}, (412) 9
P450, (405) 153; (419) 45
P450 inhibition, (400) 80
p53, (404) 6; (406) 17, 31, 263, 271; (408) 16; (412) 70; (420) 25
p53 antigen, (412) 91
p53 gene expression, (416) 113
p56lck, (405) 163
p60TRAK, (410) 361
p62, (403) 35
p70S6 kinase, (402) 121
p70^{S6k}, (406) 179; (409) 171; (410) 78
P75gag-v-erbA, (416) 291
p80TNF receptor, (406) 101
p97, (404) 263
PACE4, (400) 177
Packaging capacity, (407) 78
PAF receptor, (402) 203
PAI-1, (416) 373
PAI-2, (402) 265
Palmitoylation, (405) 356
Palmitoyl- protein thioesterase, (405) 356
Palytoxin, (409) 391
Pancreas, (416) 364
Pancreatic β cell, (409) 375; (418) 179
Pancreatic B-cell, (400) 285
Pancreatic digestion, (402) 99
Pancreatic islet, (415) 179
Pancreatic islet of Langerhans, (415) 281
Pancreatic regeneration, (416) 364
Pancreatitis, (405) 219; (414) 298
Pandinus, (400) 197
Pandinus imperator scorpion venom, (405) 385
Panulirus interruptus, (408) 124
PapD chaperone, (412) 115
Papillary muscle, (412) 79
Paracoccus denitrificans, (404) 208
Parallel triplex, (419) 27
Paramagnetic NMR, (401) 15; (415) 45
Paramecium, (402) 227
Paraoxonase, (416) 377
Parathyroid hormone, (400) 221; (409) 63
Parietal cells, (414) 333
Parkinson's disease, (406) 33
PARP, (403) 273
Partial agonist, (402) 241
Partial hepatectomy, (419) 9
Partial purification, (407) 105
Passage, (400) 304
Patch clamp, (411) 71; (412) 236; (415) 81
Patch clamp method, (415) 1
Patched genes, (410) 485
Pathogenesis-related protein, (407) 207
Pathophysiology, (409) 115
Patterned immobilization, (403) 159
Paxillin, (419) 95
PBS2, (403) 173
PC12 cell, (401) 148; (410) 175; (417) 173
PC7, (405) 68
pCMV-CAT plasmid DNA, (414) 187
PCR, (412) 309; (415) 243
PCR differential display, (412) 183
PCR-based mutagenesis, (413) 135
PD098059, (409) 171
PD98059, (412) 9
PDGF, (401) 43
PDGF receptor, (401) 43
PDH complex, (401) 158
PDH phosphatase, (401) 158
PDHKII, (419) 55
PDX1, (407) 191
PDZ domain, (413) 243
PDZ motif, (409) 53
PECAM-1, (408) 331
Penicillin, (405) 191
Penicillin acylase (*Alcaligenes faecalis*), (417) 414
Penicillin/cephalosporin biosynthetic pathway, (414) 74
Penicillium simplicissimum, (402) 33
PEP carboxylase, (412) 531
PEPCK, (412) 597
Peptic ulcer, (410) 269
Peptide, (403) 75; (405) 378; (411) 71, 173; (415) 303; (417) 141
Peptide conformation, (402) 95
Peptide folding, (411) 19
Peptide inhibitor, (411) 67
Peptide processing, (408) 195
Peptide purification, (408) 285; (414) 105
Peptide synthesis, (408) 285
Peptide toxicity, (418) 101
Peptidoglycan, (411) 161; (419) 83
Peptidyl chloromethane, (417) 267
Peptidyl prolyl *cis*/*trans* isomerase, (407) 184
Peptidyl transferase, (406) 223
Peptidyl-prolyl *cis*-*trans* isomerase, (418) 224
Peptidyl-prolyl *trans*-*cis* isomerase, (414) 84
Periodicity, (409) 431
Periplasm, (406) 249
Periplasmic binding protein, (413) 364; (417) 253
Peritoneal macrophage, (409) 242
Permanent cell line, (408) 21
Permeability transition, (409) 361; (414) 253; (418) 282; (419) 137; (420) 167
Permeability transition pore, (412) 173; (418) 131

- Permeabilized cell, (412) 535
 Permethrin, (413) 327
 Permyllybdate, (401) 271
 Permutin, (414) 243
 Peroxidase, (407) 357; (410) 470; (412) 107, 405; (415) 186
 Peroxidase activity, (407) 280
 Peroxidation, (403) 70
 Peroxide, (404) 27
 Peroxisomal membrane protein, (414) 95
 Peroxisome, (405) 394; (411) 133; (412) 385, 643
 Peroxisome proliferator, (418) 265
 Peroxisome proliferator activated receptor, (412) 385
 Peroxynitrite, (409) 147; (411) 157; (413) 236, 314; (414) 497; (416) 175
 Peroxynitrous acid, (404) 175
 Persistent hyperinsulinaemic hypoglycaemia of infancy (PHHI), (413) 304
 Persistent infection, (410) 191
 Pertussis toxin, (413) 462
 Pervanadate, (401) 271; (412) 420
 Petal senescence, (404) 275
 Petunia extract, (412) 535
Petunia hybrida, (403) 116
PFLI, (416) 156
 P-glycoprotein, (413) 142; (417) 119
 pH, (404) 87; (406) 259
 pH reduction, (411) 67
 pH stability, (414) 122
 PH-20, (413) 385
 Phage display, (403) 116; (411) 27; (414) 7, 263, 521; (415) 258, 289
 Phage display library, (416) 193
 Phage-displayed random peptide library, (418) 219
 Phagemid, (411) 27
 Phagocyte, (401) 123
 Phagocytosis, (400) 11; (412) 21, 227, 583; (419) 37
 Phagosome, (405) 86
pharaonis phoborhodopsin (ppR), (420) 54
pharaonis sensory rhodopsin II (psRII), (420) 54
 Pharmacokinetics, (418) 152
Phaseolus lunatus, (416) 143
Phaseolus vulgaris, (405) 95
 PHAS-I, (406) 179; (409) 171
 pH dependence, (400) 149
 Phenanthroline, (408) 16
 Phenol degradation, (416) 61
 Phenolic compound, (418) 15
 Phenoxyl radical, (412) 305
 Phenyl *N*-tert-butyl nitron, (407) 148
 Phenylacetaldehyde dehydrogenase, (406) 23
 Phenylalanine hydroxylase, (406) 171; (409) 7
 Phenylalanyl-tRNA synthetase, (420) 139
 Phenylalkylamine, (411) 115
 Phenylglyoxal (rat liver), (409) 361
 Phenylpyruvate tautomerase, (417) 85
 Pheophytin *a*, (420) 171
 Pheromone, (410) 29
 pH-induced transition, (405) 273
 Phloem, (400) 201
 Phloridzin, (401) 78
 PhoE, (415) 317
 Phorbol 12-myristate 13-acetate, (418) 215, 310
 Phorbol ester, (400) 226; (406) 61; (415) 25, 160
 Phorbol myristate acetate, (418) 333
 Phosducin-like protein, (401) 243
 Phosphatase, (410) 361; (416) 230
 Phosphate, (403) 51
 Phosphatidic acid, (413) 269
 Phosphatidylethanolamine, (413) 269
 Phosphatidylinositol 3-kinase, (410) 418
 Phosphatidylinositol, (400) 136
 Phosphatidylinositol 3-kinase, (402) 246; (404) 23; (405) 229
 Phosphatidylinositol 4,5-bisphosphate, (401) 191; (410) 136; (417) 243
 Phosphatidylinositol bisphosphate, (410) 44
 Phosphatidylinositol transfer protein, (410) 44; (419) 271
 Phosphatidylserine, (400) 226; (405) 163; (409) 292
 Phosphocholine, (412) 197
 Phosphodiesterase, (420) 147
 Phosphoenolpyruvate carboxylase, (417) 57
 Phosphofructokinase, (409) 86
 Phosphoinositide, (419) 271
 Phosphoinositide-binding, (418) 258
 3-Phosphoinositide-dependent protein kinase, (416) 307
 Phospholamban, (409) 131
 Phospholipase A₁, (410) 54; (419) 117
 Phospholipase A₂, (403) 51, 263; (404) 159; (405) 65; (406) 93; (407) 7; (410) 54, 285; (413) 249; (415) 325; (419) 117
 Phospholipase C, (400) 163, 267; (405) 65; (407) 257; (410) 39, 44
 Phospholipase D, (403) 299; (405) 65; (413) 269; (417) 196; (419) 271
 Phospholipase D activity inhibition, (400) 145
 Phospholipid, (405) 163; (410) 73; (412) 526; (414) 387
 Phospholipid base exchange reaction, (409) 292
 Phospholipid hydroperoxide glutathione peroxidase, (410) 210
 Phosphomannomutase, (401) 35
 Phosphonate inhibitor, (418) 319
 4'-Phosphopantetheine, (405) 267
 Phosphoprotein phosphatase, (410) 347
 Phosphorylation, (400) 201; (401) 171, 191; (402) 227; (403) 313; (406) 101; (408) 251, 276; (409) 74, 253; (410) 361, 477; (412) 165, 495, 621; (413) 273; (415) 200; (416) 51, 149; (417) 243
 Phosphorylation-dephosphorylation, (412) 433
 Phosphorylcholine-binding protein, (407) 201
 Phosphoserine, (405) 81
 Phosphotransfer signaling in *E. coli*, (408) 337
 Phosphotriesterase, (410) 378
 Phosphotyrosine, (401) 271
 Phosphotyrosine phosphatase, (406) 126
 Phosphotyrosine-binding domain, (410) 136
Photinus pyralis, (404) 115
 Photoactivation, (405) 81; (406) 66
 Photoaffinity labeling, (402) 189; (408) 127; (417) 119
 Photochemical reaction center, (401) 113
 Photo-crosslinking, (416) 359
 Photocycle, (409) 137; (418) 239; (420) 54
 Photoelectric response, (414) 193
 Photoinhibition, (400) 359; (408) 276; (418) 243
 Photoisomerization, (414) 23
 Photolabeling, (409) 101; (413) 1
 Photon correlation spectroscopy, (414) 409
 Photophosphorylation, (412) 375
 Photoprotection, (415) 125
 Photoreaction, (402) 173
 Photoreception, (408) 251
 Photoreceptor cell, (414) 381
 Photoregulation, (411) 236
 Photorelease, (405) 81
 Photorespiration, (412) 265
 Photosynthesis, (402) 151; (407) 159; (408) 206; (410) 433; (411) 236; (417) 275
 Photosynthetic reaction center, (412) 490
 Photosystem I, (414) 193; (416) 65
 Photosystem II, (400) 259; (402) 41; (408) 276; (410) 243; (414) 454; (416) 65; (418) 243; (420) 171
 Phototransduction, (406) 6; (409) 258
 Phototrophic bacterium, (414) 45
 Photovoltage response, (418) 239
 Phycobiliprotein, (402) 173; (410) 428
 Phycocyanin, (410) 428
 Phycoerythrocyanin, (402) 173
 Phycoviolobilin, (402) 173
 Phylogenetic analysis, (412) 429
 Phylogenetic tree, (404) 65; (407) 51; (416) 281
 Phylogeny, (412) 325
 Phytanic acid, (407) 197; (412) 643
 Phytoalexin, (401) 239; (412) 61
 Phytochrome, (402) 173; (406) 89; (414) 23
 Phytoene desaturase, (400) 359
 Phytol, (400) 271; (414) 129
Phytolacca americana, (406) 97; (410) 303
 Phytopathogen, (400) 252
Phytophthora, (416) 190
 Pil, (400) 197
 PI(3,4,5)P₃, (410) 3
 PI3-kinase, (409) 253
Pichia pastoris, (401) 73; (407) 63; (417) 33
 Pick's disease, (412) 578
 piD261, (414) 171
 Piggy back transport, (410) 368

- Pigment-binding protein, (414) 585
 Pinacidil, (412) 121
 PI-signaling, (409) 258
Pisum sativum cv. Miko, (400) 42
Pisum sativum L., (404) 275; (408) 350; (417) 321
 PKB, (409) 253
 PKC, (402) 121; (413) 152
 PKC pseudosubstrate peptide inhibitor, (413) 152
 Pkn2, (400) 188
 PLA₂-complex, (412) 573
 Placental ribonuclease inhibitor, (414) 362
 Planar bilayer, (411) 201
 Planar lipid bilayer, (410) 397; (412) 270
 Plant, (400) 243; (405) 1; (416) 130, 281
 Plant complex oligosaccharide, (415) 186
 Plant defence, (400) 168
 Plant lectin, (412) 190
 Plant mitochondrial import, (415) 173
 Plant mitochondrion, (415) 87
 Plant pathogen, (410) 338
 Plant plastid, (413) 309
 Plant protoplast, (412) 535
 Plant secretion, (403) 303
 Plant signal transduction, (410) 206
 Plant-microbe interaction, (417) 168
 Plasma membrane, (402) 136; (405) 1; (407) 309, 361; (411) 211, 308; (415) 139; (420) 17
 Plasma membrane adaptor complex, (407) 173
 Plasma membrane H⁺-ATPase, (418) 123
 Plasma membrane protein, (416) 179
 Plasma membrane purification, (416) 39
 Plasmalogen, (408) 191; (420) 33, 205
 Plasmid DNA, (402) 107; (407) 164; (408) 232; (415) 81
 Plasmin, (402) 181
 Plasminogen, (404) 95; (407) 93; (412) 388
 Plasminogen activation, (417) 17; (418) 58
 Plasminogen activator, (407) 93; (418) 341
 Plasminogen activator inhibitor 1, (415) 192
 Plasminogen binding, (418) 58
Plasmodium falciparum, (409) 67
 Plastoquinone-9, (400) 271
 Platelet, (403) 83; (405) 312; (418) 19
 Platelet activating factor receptor, (418) 98
 Platelet activation, (400) 99; (417) 341
 Platelet aggregation, (404) 23
 Platelet factor 4, (409) 183
 Platelet-derived growth factor, (409) 195; (410) 17; (413) 70; (419) 166
 Platelet-derived growth factor (PDGF)-AB, (403) 236
 Platelets, (410) 54
 Pleckstrin homology domain, (417) 243
 Pleiotropic drug resistance network, (418) 269
 Pneumolysin, (412) 563
 Pokeweed antiviral protein, (402) 50; (410) 303
 Pokeweed antiviral protein from seeds, (406) 97
 Pollution monitoring, (407) 261
 Poloxamer, (400) 319
 Poloxamine, (400) 319
 Poly (3-hydroxybutyrate), (412) 592
 Poly(ADP-ribose) polymerase, (402) 36
 Poly(ADP-ribosylation), (413) 99
 Polyamine, (402) 41; (408) 241
 Polyarginine, (414) 233
 Polyclonal repertoire, (414) 537
 Polyethylene glycol, (401) 113
 Polyethyleneglycol, (413) 177
 Polygalacturonase, (400) 122; (414) 439
 Polyglutamylation, (419) 87
 Polyglycylation, (419) 87
 Polyketide, (405) 267
 Poly(lactide-co-glycolide), (400) 319
 Polylactosamine, (412) 637
 Poly-(L-proline) motif, (411) 291
 Polymerase, (419) 153
 Polymerase chain reaction, (400) 309; (418) 205
 Polymerase chain reaction technique, (414) 268
 Polymerase II, (417) 1
 Polymerase III, (417) 1
 Polymeric immunoglobulin receptor, (410) 443
 Polymethoxygalacturonase, (414) 439
 Polynucleotide:adenosine glycosidase, (408) 355
 Polyphosphate, (412) 592
 Polyphosphate kinase, (412) 592
 Polysome, (405) 333
 Polytopic integral membrane protein, (405) 281
 Polyunsaturated fatty acid, (406) 243
 PON1, (416) 377
 Population genetics, (419) 281
 Pore formation, (411) 339
 Pore-forming toxin, (410) 333
 Porin, (404) 208; (411) 201; (415) 317
 Porphyrin, (407) 280
Posidonia oceanica, (412) 236
 Postsynaptic density, (418) 301
 Post-transcriptional regulation, (404) 105
 Post-translational control, (416) 51
 Post-translational modification, (400) 201; (405) 267; (407) 85; (408) 350; (414) 595; (419) 87
 Post-translational pathway, (418) 333
 Potassium, (400) 206; (417) 43
 Potassium channel, (400) 197; (402) 12, 45; (406) 284; (409) 166, 232; (412) 121; (417) 123
 Potassium channel toxin, (418) 183
 Potato, (409) 166
 POU domain mutants, (412) 5
 POZ domain, (418) 23
 pp60^{c-src}, (401) 191
 Precursor protein, (404) 314
 Pregnancy, (405) 148
 PrelaminA, (414) 65
 PrelaminA endoprotease, (414) 65
 Premature rupture of fetal membrane, (417) 337
 Prenatal diagnosis, (404) 299
 Prenylation, (413) 260; (414) 527; (416) 235
 Preprotein targeting, (416) 35
 Presenilin, (418) 162
 Presequence, (412) 138
 Pressure overload, (406) 301
 Primary ciliary dyskinesia, (412) 325
 Primary culture, (417) 395; (418) 115
 Primary structure, (404) 148; (406) 23; (407) 201
 Prion, (412) 359
 Prion amyloid, (412) 397
 Prion disease, (403) 230; (407) 1
 Prion origin, (415) 6
 Prion protein, (412) 429; (413) 282
 Prion protein partial sequence, (417) 400
 Proadrenomedullin N-terminal 20 peptide, (414) 105
 Processing, (400) 177; (405) 68; (406) 205; (418) 189
 Processivity, (409) 151
 Prochlorophyte, (410) 428
 Prodrugs, (410) 324
 Proenzyme, (420) 7
 Profilin, (418) 258
 Progastrin processing, (416) 45
 Pro-gelatinase A, (402) 181
 Progesterone, (402) 223; (419) 63
 Proglucagon, (413) 119
 Programmed cell death, (400) 345; (404) 275; (408) 225; (410) 373; (414) 289
 Progress curve, (412) 425
 Prohormone convertase3, (404) 19
 Prohormone processing, (413) 119
 Proinsulin, (402) 124
 Prolactin, (401) 117; (405) 273; (406) 33
 Prolactin receptor, (405) 91; (410) 289
 Proliferation, (404) 6; (407) 141, 343; (408) 43; (410) 22, 160, 285; (412) 420; (414) 125; (418) 235
 Proline, (400) 31; (410) 201
 Proline binding, (418) 258
 Proline *cis/trans* isomerization, (418) 106
 Proline iminopeptidase, (400) 91
 Proline isomerization, (411) 359; (413) 429
 Prolyl isomerization, (414) 69
 Promoter, (401) 38; (402) 45; (405) 31, 137; (406) 271; (407) 177; (411) 1; (412) 285; (419) 161
 Promoter deletion, (420) 20

- Promyelocytic leukemia cell (HL60), (414) 65
 Prooxidant, (405) 186
 Propeptide, (418) 189
 Propeptide binding site, (413) 1
 Propeptide, protease inhibitor, (411) 128
Propionibacterium shermanii, (414) 122
 Prostacyclin synthase, (409) 242
 Prostaglandin, (409) 242; (418) 175; (419) 112
 Prostaglandin D receptor, (417) 53
 Prostaglandin D₂, (413) 249; (417) 53
 Prostaglandin E₂, (400) 315; (414) 323; (418) 235
 Prostaglandin G/H synthase, (418) 135
 Prostaglandin G/H synthase-2, (416) 269
 Prostaglandin H synthase, (413) 314
 Prostaglandin receptor, (401) 185; (415) 119
 Prostaglandin synthesis, (416) 269
 Prostate, (410) 343
 Prostate, (406) 42; (417) 385
 Prostate specific antigen, (405) 328
 Prostatic acid phosphatase, (406) 42
 Prostatic carcinoma, (407) 97
 Protease, (402) 36; (404) 241; (412) 521; (413) 486; (415) 227
 Protease activity, (412) 153
 Protease inhibitor, (401) 235; (412) 518; (419) 231
 Protease resistance, (415) 6
 Proteasome, (400) 83, 345; (403) 313; (405) 281; (408) 301; (412) 65, 521; (413) 27; (416) 281; (418) 189
 20S Proteasome, (404) 253; (412) 57
 26S Proteasome, (404) 179; (412) 331
 Proteasome proteolysis, (413) 354
 Protection, (411) 378
 14-3-3, (419) 244
 14-3-3 Protein, (403) 254; (413) 273, 294
 Protein, (402) 41; (409) 147; (416) 230
 Protein adsorption, (412) 241
 Protein aggregation, (414) 590
 Protein carboxy-terminal end, (404) 140
 Protein classification, (407) 37
 Protein conformation, (413) 277
 Protein crystallization, (400) 91; (414) 492
 Protein crystallography, (400) 173; (403) 249
 Protein degradation, (409) 115, 307
 Protein denaturation and unfolding, (410) 280
 Protein design, (409) 183; (414) 243; (417) 71
 Protein disulfide, (401) 104
 Protein disulfide isomerase, (401) 104; (402) 145; (406) 291; (418) 357
 Protein engineering, (400) 31; (403) 268; (405) 373, 394; (412) 365; (415) 285
 Protein evolution, (402) 177; (403) 268
 Protein expression, (400) 304; (412) 587; (415) 235; (417) 104
 Protein folding, (401) 138; (403) 245; (405) 47, 195; (407) 215; (411) 359; (414) 69; (416) 72; (417) 92; (418) 106; (419) 18
 Protein footprinting, (414) 50
 Protein function, (415) 129
 Protein HC, (416) 276
 Protein homology, (413) 197
 Protein hydration, (415) 45
 Protein import, (404) 314; (408) 350
 Protein interaction, (407) 137; (409) 53
 Protein kinase, (400) 201; (401) 202; (404) 211; (409) 131; (410) 126, 347; (414) 171; (417) 57
 Protein kinase and phosphatase, (414) 430
 Protein kinase B, (406) 211; (410) 3, 493; (416) 307
 Protein kinase C, (400) 163, 243, 267; (401) 191; (404) 221; (406) 61; (407) 97; (410) 356; (412) 9, 253, 309, 461; (413) 323; (415) 101; (416) 39; (417) 219, 390; (418) 83, 119; (420) 69
 Protein kinase C η , (412) 30
 Protein kinase C gamma, (400) 226
 Protein kinase C isoform, (400) 226
 Protein kinase C subspecies, (400) 304
 Protein kinase C substrate, (419) 95
 Protein kinase C ζ , (415) 271
 Protein kinase C α , (406) 61
 Protein kinase Cdelta, (400) 226
 Protein kinase C-e, (400) 304
 Protein kinase CK2, (403) 197, 200; (408) 99; (410) 391
 Protein kinase C ζ , (401) 247
 Protein kinase G, (400) 285
 Protein kinase inhibitor, (402) 121; (417) 61
 Protein kinaseC,
 Protein L7/L12, (407) 253
 Protein ligand, (405) 172
 Protein methyl transferase, (408) 350
 Protein microsequencing, (407) 32
 Protein modification, (404) 115; (416) 235
 Protein motif, (410) 124
 Protein oxidation, (414) 541
 Protein phosphatase, (400) 136; (402) 141; (410) 356; (414) 475
 Protein phosphatase 1, (417) 325; (418) 210; (420) 57
 Protein phosphatase 2A, (401) 197; (408) 52; (411) 265; (413) 115; (418) 179
 Protein phosphatase 2C, (411) 265; (412) 415
 Protein phosphorylation, (400) 136; (409) 375; (410) 126, 206; (414) 465; (415) 294; (420) 117, 151
 Protein phosphorylation, acidic domain, (412) 415
 Protein probing, (407) 137
 Protein processing, (409) 115
 Protein purification, (414) 514
 Protein refolding, (417) 109
 Protein retrieval, (413) 395
 Protein secretion, (400) 122; (403) 203
 Protein sequence, (409) 109; (414) 425
 Protein sorting, (411) 133; (414) 177
 Protein spatial structure, (418) 43
 Protein splicing, (408) 311; (412) 518
 Protein stability, (400) 45; (418) 297
 Protein structure, (401) 89; (413) 273; (414) 226; (415) 129; (420) 97
 Protein structure and dynamics, (413) 282
 Protein structure comparison, (407) 37
 Protein synthesis, (408) 355; (410) 418; (411) 53
 Protein synthesis inhibition, (413) 85
 Protein synthesis regulation, (407) 21
 Protein targeting, (407) 220; (416) 225
 Protein topology, (408) 206
 Protein translocation, (408) 11; (419) 18
 Protein transport, (403) 309; (406) 291
 Protein tyrosine kinase, (400) 11; (412) 420, 540
 Protein tyrosine phosphatase, (400) 280; (412) 420; (417) 6
 Protein unfolding, (415) 183
 Protein-DNA interaction, (405) 373, 394; (407) 333
 Proteinase 3, (408) 187
 Proteinase-activated receptor-2, (417) 267
 Protein-DNA complex, (408) 235; (414) 514
 Protein-DNA recognition, (412) 5
 Protein-ligand interaction, (407) 291
 Protein-nucleic acid interaction, (407) 13
 Protein-nucleic acid recognition, (411) 123
 Protein-peptide interaction, (412) 115
 Protein-protein interaction, (400) 31; (401) 180; (403) 200; (408) 11, 99; (409) 79; (413) 162; (414) 465; (415) 258; (416) 259; (417) 109
 Protein-RNA interaction, (420) 139
 Protein-targeting, (408) 1
 Protein-tyrosine kinase, (408) 327
 Protein-tyrosine phosphatase, (415) 243
 Protein-tyrosine phosphatase inhibitor, (401) 271
 Proteinuria, (408) 105
 Proteoglycan, (402) 286; (420) 175
 Proteoglycan tandem repeat, (410) 413
 Proteolipid, (410) 117
 Proteoliposome, (412) 405; (414) 193; (416) 353
 Proteolysis, (400) 83; (401) 223; (405) 175; (406) 17, 191; (408) 301; (412) 433
 Proteolytic activation, (411) 102
 Proteolytic cleavage, (410) 457; (414) 14
 Proteolytic modification, (414) 39
Proteus, (411) 221
 Prothrombin activator, (412) 526
 Prothymosin α , (413) 135
 Proton antiport, (419) 107
 Proton channel, (416) 247
 Proton pump, (410) 269; (414) 414
 Proton pumping, (412) 405
 Proton release, (410) 243
 Proton transfer, (407) 159; (412) 490
 Proton translocation, (412) 351
 Proton translocation mechanism, (414) 275

- Proton transport, (407) 285; (409) 137
 Protonic potential, (414) 369; (416) 15
 Proto-oncogene, (408) 327
 Protopectinase, (414) 439
 Protoplast, (405) 145
 Protoporphyrin IX, (409) 297
 PrP^{Sc}, (405) 378
 PSD-95/SAP90, (418) 301
 Pseudo-energy potential, (415) 129
 Pseudohyphal growth, (408) 109
 Pseudoknot, (401) 175
Pseudomonas aeruginosa, (405) 200
Pseudomonas syringae, (409) 227; (414) 590; (417) 168
Pseudomonas syringae pv. *tomato*, (415) 40
Pseudopleuronectes americanus, (417) 287
 PtdInsP₃, (405) 229
 PTK, (411) 87
 PTP α , (404) 37
 PTPasc, (406) 42
 P-type ATPase, (409) 273; (412) 165
 Puberty, (413) 65
 Pulse radiolysis, (418) 91
 Pulsed electron paramagnetic resonance, (414) 454
 Pulsed EPR spectroscopy, (400) 247
 Pump, (400) 324
 Pumpkin (*Cucurbita* sp. cv. Kurokawa Amakuri Nankin), (413) 21
 Pupal diapause, (413) 157
 Purification, (412) 86; (415) 155; (419) 124
 Purine-pyrimidine junction, (418) 76
 Purinoceptor, (418) 195
 Puromycin, (414) 405; (417) 329
 Purple and blue bacteriorhodopsin, (416) 167
 Purple membrane, (409) 137
 Purple photosynthetic bacterium, (412) 490
Pycnoporus cinnabarinus, (407) 89
 Pyrene, (420) 63
 Pyridinoline, (404) 303
 Pyridoxal 5'-phosphate, (412) 245; (414) 492
 Pyridoxal phosphate, (403) 51
 Pyrimidine nucleoside analogue, (419) 263
 Pyrimidine nucleotide, (410) 329
 Pyrimidine-purine junction, (418) 76
 Pyrogallol, (406) 255
 Pyroglutamate, (409) 411
 Pyruvate, (400) 271; (413) 169
 Pyruvate carboxylase, (412) 531
 Pyruvate decarboxylase, (400) 42; (403) 249
 Pyruvate dehydrogenase, (419) 55
 Pyruvate dehydrogenase complex, (419) 197
 Pyruvate dehydrogenase kinase, (419) 197
 Pyruvate recycling, (412) 131
 Pyruvate, orthophosphate dikinase, (403) 5
 Pyruvate:ferredoxin oxidoreductase, (414) 209
 Q-cycle, (412) 257; (414) 369
 qE quenching, (402) 151
 Quality control, (412) 65
 Quantitative polymerase chain reaction, (406) 49
 Quantitative RT-PCR, (406) 305; (411) 119
 Quaternary structure, (402) 33; (403) 249; (405) 114
 Quercetin, (401) 78; (409) 12; (416) 123
 Queuine, (416) 93
 Quinol oxidase, (404) 143; (412) 43
 Quinolinic acid, (408) 5
 Quinone biosynthesis, (404) 272
 Quinonoid, (412) 245
 Rab, (404) 65
 Rab3 protein, (411) 356
 Rabbit muscle adenylate kinase, (413) 429
 Rabbit osteoclast, (410) 297
 Rabbit platelet, (400) 280
 Rabbit spleen, (414) 39
 Rac, (415) 325
 Rac GTPase, (406) 93; (407) 7
 Rac1, (410) 169
 Rac2, (403) 149
 Radial glia, (405) 245
 Radiation, (403) 70; (419) 99
 Radical, (417) 261
 Radioimmunoassay, (414) 105
 Radiotherapy, (409) 287
 Raf-1, (400) 163; (403) 57, 254
 Rainbow trout insulin promoter, (407) 191
 Rainbow trout (*Oncorhynchus mykiss*), (414) 377
 Ral, (410) 169
 RalBP1, (410) 169
 Raman spectroscopy, (411) 215; (417) 375
 Ran, (408) 315
Rana esculenta, (416) 273
 RanBP1, (419) 249
 Random mutagenesis, (414) 213
 Rap, (408) 315
 RAP1, (400) 25
 Rap1, (410) 59
 RAP1, (411) 383
 RAP74, (410) 477
 Rapamycin, (406) 179, 211
 Rapid turnover, (400) 359
 RAR, (412) 629
 RAR α , (411) 102
 Ras, (403) 57; (404) 65; (407) 111; (408) 33, 315; (410) 11, 63, 73; (419) 63
ras, (406) 28
 Ras GAP, (413) 205
ras gene, (416) 317
 Ras molecule, (414) 239
 Ras protein, (403) 95
ras Transformation, (407) 267
 Ras-binding domain, (414) 599
 Ras-effector, (414) 599
 Ras-GTPase-activating protein, (410) 63
 Rat, (402) 213; (403) 279; (404) 185; (409) 12, 258; (410) 378
 Rat adipocyte, (402) 246
 Rat adrenal, (416) 81
 Rat brain, (411) 327
 Rat brain α -subunit, (413) 327
 Rat brown adipose tissue, (408) 39
 Rat cerebellar granule neuron, (411) 183
 Rat fibroblast, (407) 267
 Rat H218, (417) 279
 Rat heart, (401) 247; (409) 131
 Rat heart mitochondria, (406) 136
 Rat hepatocarcinoma, (403) 131
 Rat hepatoma cell, (417) 325
 Rat insulin protomer element 3b1, (418) 68
 Rat insuloma δ -cell line (RIN14B), (411) 301
 Rat kidney, (407) 127; (419) 45
 Rat lactotroph, (400) 113
 Rat liver, (406) 75, 305
 Rat liver regeneration, (406) 147
 Rat melanotroph, (411) 356
 Rat pancreas, (414) 298
 Rat *SOD1* gene, (401) 267
 Rat thymocyte, (403) 87; (413) 231
 Rb, (410) 11
RBCS promoter, (415) 91
RCAT, (412) 410
 RCS rat, (412) 21
 Reaction center, (401) 153; (407) 159; (417) 275
 Reaction mechanism, (401) 35
 Reactive nitrogen species, (411) 157
 Reactive oxygen, (403) 87
 Reactive oxygen species, (404) 249; (414) 552; (415) 21, 87; (416) 15
 Reactivity of SH-groups, (405) 260
 Real-time biomolecular interaction analysis, (420) 79
 RecA protein, (407) 325
 Receptor, (400) 211, 267; (401) 83; (407) 257; (408) 211; (409) 195; (410) 83; (412) 270; (415) 59; (418) 111; (419) 141
 Receptor activation, (406) 139
 Receptor binding, (413) 405; (414) 313
 Receptor binding assay, (403) 287
 Receptor cleavage, (420) 79
 Receptor clustering, (405) 137
 Receptor conformation, (416) 335
 Receptor desensitization, (412) 253; (415) 119

- Receptor serine kinase, (420) 117
 Receptor targeting, (406) 157
 Receptor trafficking, (415) 200
 Receptor variant, (413) 489
 Receptor/hormone interaction, (414) 263
 Receptor-effector coupling, (418) 355
 Receptor-like protein tyrosine phosphatase, (411) 231
 Recognition code, (417) 71
 Recombinant, (402) 124; (405) 5
 Recombinant antibody, (403) 116; (414) 537
 Recombinant bovine prion protein, (412) 359
 Recombinant cathepsin E, (408) 62
 Recombinant cytotoxic fusion protein, (402) 50
 Recombinant enzyme, (402) 62; (406) 171
 Recombinant protein, (414) 557
 Reconstitution, (408) 166; (416) 353, 359
 Recoupler, (412) 179
 Recoverin, (408) 251
 Red blood cell membrane, (406) 255
 Redox Bohr effect, (414) 414
 Redox dye, (414) 193
 Redox potential, (406) 249
 Redox regulation, (403) 87; (408) 30
 Redox-mediator, (413) 446
 Redoxregulation, (401) 143
 Redoxstate, (401) 104
 Reductive dechlorination, (409) 421
 Refolding, (409) 357; (411) 43; (412) 518; (418) 363
 Refsum's disease, (407) 197; (412) 643
 Reg I, (416) 364
 Reg II, (416) 364
 Regiospecificity, (414) 213
 Regulation, (405) 31; (406) 79; (410) 49; (412) 1, 433; (413) 226; (415) 173; (416) 51; (419) 197
 Regulator of G-protein signaling, (411) 179
 Regulatory complex, (412) 331
 Regulatory peptide, (402) 273
 Regulatory phosphorylation, (417) 57
 Regulatory protein, (413) 169
 74-kDa Regulatory subunit (B' or δ), (408) 52
 Rel protein, (405) 373, 394
 Relaxin-like factor, (419) 186
 Renal proximal convoluted tubule, (401) 207
 Renaturation, (417) 239
 Renin, (407) 177
 Rep78, (401) 180
 Reperfusion injury, (401) 30
 Repetitive DNA, (417) 1, 352
 Replacement histone gene, (408) 255
 Replication dependent variant, (407) 101
 Replication proteinA, (413) 181
 Replicative senescence, (402) 286; (420) 175
 Replicative structure, (414) 393
 Repolarization, (417) 43
 Reporting system, (406) 165
 Repression domain, (402) 131
 Reproduction, (404) 56
 Residual structure, (419) 285; (420) 63
 Residue difference, (416) 99
 27-Residue peptide, (400) 289
 Resiniferatoxin, (410) 378
 Resonance assignment, (415) 109
 Resonance Raman, (414) 23
 Respiration, (409) 161; (410) 145, 219; (416) 39
 Respiratory burst, (401) 123; (417) 231
 Respiratory deficiency, (418) 247
 Respiratory deficient, (410) 219
 Respiratory deficient mutant, (404) 51
 Respiratory epithelium, (404) 11
 Respiratory protection, (414) 369
 Response element, (406) 243
 Restenosis, (407) 116
 Restriction endonuclease, type IIs, (403) 136
 Restriction fragment length polymorphism, (407) 51
RET proto-oncogene, (419) 76
Reticulomyxa filosa, (417) 33
 Reticuloplasmin, (402) 145
 Retina, (409) 258; (411) 179
 Retina cell, (417) 345
 Retinal degeneration, (409) 247
 Retinal fascin, (414) 381
 Retinal rod cell, (408) 251
 Retina-specific gene, (414) 381
 Retinitis pigmentosa, (413) 433
 Retinoic acid, (406) 196; (410) 175; (412) 603; (415) 263, 275; (419) 268
 9-*cis*-Retinoic acid, (412) 480
 9,13-di-*cis*-Retinoic acid, (411) 102
 Retinoic acid receptor α , (406) 196
 Retinoic acid response element, (419) 76
 Retinoid, (412) 629
 Retinoid X receptor α , (406) 196
 Retinol, (402) 116
 Retrograde transport, (413) 395
 Retrotransposition, (418) 205
 Retrotransposon, (417) 1; (418) 205
 Retrovirus, (405) 305; (413) 477
 Rev, (414) 50
 Reverse transcriptase, (410) 324
 Reverse transcription, (415) 227
 Reverse-transcription polymerase chain reaction, (407) 51; (418) 315
 Reversible denaturation, (413) 339
 RGD peptide, (416) 197
 RH-5849, (400) 345
 Rhesus monkey, (409) 91
 Rheumatoid arthritis, (414) 159; (418) 305
Rhizobium, (409) 312; (414) 397; (417) 275
Rhizobium meliloti, (412) 485
 Rho, (404) 118; (410) 73; (415) 325
 Rho GTPase, (410) 68
 RhoA, (403) 299
 Rhodamine 123, (411) 77
Rhodobacter capsulatus, (405) 345; (407) 337
Rhodobacter sphaeroides, (403) 10; (409) 37; (412) 490
Rhodococcus, (400) 83; (418) 189
Rhodococcus sp. R312 or BR312, (409) 216
 Rhodophyta, (401) 35
Rhodospseudomonas viridix, (401) 153
 Rhodopsin, (401) 25; (406) 6; (407) 285; (408) 251; (409) 431; (413) 433
 Rhodopsin kinase, (408) 251; (413) 433
 Rhodopsin phosphorylation, (413) 433
 Rho-GAP, (414) 599
 Ribonuclease, (407) 207; (418) 43
 Ribonuclease A, (402) 25
 Ribonuclease protection assay, (419) 239
 Ribonuclease T1, (403) 245
 Ribonucleoprotein, (412) 495
 Ribonucleotide reductase, (414) 449
 Ribosomal biogenesis, (419) 1
 Ribosomal efficiency, (418) 27
 Ribosomal protein, (401) 175; (407) 220; (411) 53; (414) 146
 Ribosomal protein mRNA, (405) 333; (416) 239
 Ribosomal protein S19, (415) 155
 Ribosomal protein S6, (414) 243
 Ribosome, (401) 175; (407) 253; (419) 1
 Ribosome, initiation, (419) 58
 Ribosome-inactivating protein, (406) 97; (408) 355; (410) 303; (413) 85
 Ribozyme, (413) 299
 Ribulose-1,5-bisphosphatase carboxylase/oxygenase, (419) 58
 Rice, (403) 313
 Rice blast, (400) 173
 Rice plant, (401) 239; (412) 61
 Ricin, (402) 91
 Ricin B-chain, (402) 91; (407) 271
Rickettsia, (411) 221
 Rickettsiosis, (411) 221
 Rieske Fe/S protein, (408) 206
 'Rieske' iron sulfur protein, (412) 257
 Rim protein, (409) 247
 Ring-shaped structure, (410) 333
 RLF, (419) 186
 RNA, (405) 141; (410) 259
 6Sa RNA, (416) 302
 RNA binding, (411) 53
 RNA-binding protein, (409) 237; (415) 221
 RNA blot hybridization, (417) 157
 RNA chain terminator, (400) 263

- RNA editing, (409) 320; (413) 40
 RNA polymerase I, (410) 461
 RNA polymerase II, (417) 227
 RNA polymerase III, (405) 305
 RNA processing, (407) 353
 RNA splicing, (419) 121
 RNA structure, (415) 109
 RNA-depolymerizing enzyme, (404) 169
 RNA-recognition motif, (413) 16
 RNase A, (415) 308; (416) 369; (417) 329
 RNase A oligomer, (415) 308
 RNase P, (407) 353
 RNase protection, (415) 243
 RNase superfamily, (404) 1
rnpB, (407) 353
 Ro 07-3149, (412) 337
Robinia pseudoacacia, (403) 294
 Rod photopigment, (406) 279
 ROI, (411) 87
 Room temperature, (417) 379
 Root nodule, (410) 126
 Rotenone, (410) 467
 Rotenone-resistant NADH dehydrogenase, (412) 265
 RPD3 family, (419) 157
 RPE cell, (412) 21
 R-Ras2, (414) 239
 rRNA, (406) 123
 16S rRNA, (401) 175
 rRNA *N*-glycosidase, (413) 85
 Rsk, (402) 121
 RT-PCR cloning, (420) 47
 Ruffled border, (401) 207
 Rutin, (401) 78; (409) 12
RVS161, (417) 21
RVS167, (417) 21
 Ryanodine, (414) 89
 Ryanodine receptor, (412) 223; (417) 13, 157
 σ^{70} , (411) 60
 S 18465, (402) 111
 S100 protein, (408) 81
 S-100 protein, (410) 403
 S8 rRNA, (415) 109
 Saß, (408) 105
Saccharomyces, (403) 303
Saccharomyces cerevisiae, (402) 136; (403) 95, 186; (404) 51; (405) 11, 337; (408) 89; (410) 219, 452, 461; (411) 97, 211, 308; (412) 207, 547, 615; (413) 135, 226; (414) 171, 353, 439; (415) 16, 29; (416) 1, 339; (417) 21, 219; (418) 123, 269; (419) 1, 259; (420) 17, 147, 186
 Sakuranetin, (401) 239
 Salinity stress, (410) 201
 Salivary gland, (410) 387
 Salmon, (416) 344
Salmonella *dnaQ*, (400) 94
Salmonella typhimurium, (409) 457; (413) 211
 Salt adaptation, (407) 357
 Saltbridge, (413) 215
 Sam68, (409) 237
Sambucus nigra L., (413) 85
 S-antigen, (411) 12
 SAPK, (414) 153
 Saposin A, (417) 270
 Saposin C, (417) 270
 Saquinavir, (420) 11
 Sarcoglycan, (403) 143
 Sarcomere, (408) 21
 Sarcomeric protein, (415) 163
 Sarcoplasmic reticulum, (405) 385; (406) 201; (409) 131
 Saturation transfer, (414) 84
 Saxitoxin, (409) 49
 Scaffold associated region, (400) 193
 Scale, (411) 145
 Scanning calorimetry, (412) 625
 Scanning microcalorimetry, (405) 260
 Scarecrow, (410) 213
 SCARMD, (403) 143
 Scatchard analysis, (410) 265
 Scavengase p20, (407) 32
 Scavenger receptor, (401) 53; (414) 182
 scFv, (409) 437
 scFv fragment, (407) 42; (418) 106
Schizophyllum commune, (414) 359
Schizosaccharomyces pombe, (405) 119; (413) 16; (415) 101; (420) 39
 Scorpion toxin, (400) 197; (402) 45; (405) 77; (406) 284; (412) 456; (417) 123
 Scrapie, (405) 378; (412) 359
 SDI 158, (408) 57
 Sea urchin embryo, (407) 101
 Seagrass, (412) 236
 Sec10p, (404) 135
 SEC14, (410) 44
SEC19, (403) 303
 SecA, (416) 35
Secale cereale L., (420) 86
 SecB, (416) 35
 Second messenger formation, (418) 355
 Secondary structure, (400) 289; (402) 41; (404) 45; (406) 131; (407) 239; (415) 221, 303
 Secondary structure prediction, (412) 429
 Secretase, (417) 163
 Secretin, (409) 431; (413) 405
 Secretion, (405) 224; (408) 211; (414) 349
 Secretion of lysozyme in yeast, (415) 114
 Secretion-deficient mutant, (400) 122
 Secretory component, (410) 443
 Secretory granule, (411) 255; (415) 281
 Secretory pathway, (408) 89; (414) 177
 Secretory protein, (406) 291
 Secretory vesicle, (419) 271
 Secretory vesicle membrane, (404) 87; (406) 259
 SecYEG, (408) 11
 Sed5 protein, (411) 169
 Segment match modeling, (419) 49
 Seizure, (412) 183
 Selective codon optimization, (409) 269
 Selective inhibitor, (401) 227; (406) 33
 Selective uptake, (414) 507
 Selectively ^{15}N -labeled monellin, (413) 409
 Selectively infective phage, (415) 289
 Selectivity, (416) 335
 Selenium, (410) 210
 Selenoenzyme purification, (412) 318
 Self-assembly, (413) 339
 Seminalplasmin/caltrin, (400) 289
 Semi-quantitative PCR, (415) 335
 Semiquinone stability, (412) 257
 Sendai virus, (404) 164
 Senescent cell antigen, (416) 123
 Sensitivity, (414) 430
 Sensory, (410) 29
 Sensory contact technique, (406) 106
 Sepsis, (412) 511
 Septal neuron, (411) 71
 Septation, (420) 161
 Sequence, (404) 87; (406) 259; (414) 595; (416) 156
 Sequence analysis, (407) 32; (412) 217
 Sequence comparison, (410) 407
 Sequence conservation, (415) 129
 Sequenceanalysis, (400) 25
 Sequencing, (404) 179
 Sequential assignment, (414) 338
 Ser/Thr phosphatase inhibitor, (413) 147
 Ser⁷³ phosphorylation, (411) 317
 SERCA1, (402) 189
 SERCA2a, (403) 168
 Serine autophosphorylation, (400) 65
 Serine protease, (402) 209; (405) 277
 Serine protease inhibitor, (409) 121
 Serine tRNA gene, (418) 157
 Serine/threonine, (416) 230
 Serine:pyruvate aminotransferase, (418) 265
 Serine-threonine autophosphorylation, (408) 109
 Serine-threonine protein kinase, (414) 135
 Serine-threonine protein kinase (*S. cerevisiae*), (408) 109
 Serological cross-reactivity, (411) 221
 Serotonin, (406) 106

- Serotonin receptor, (412) 465
 Serotype A, (416) 203
 Serpin, (415) 192; (416) 373
Serratia marcescens, (412) 217
 Serum, (407) 177; (408) 232
 α -1 Serum protease inhibitor, (413) 50
 Serum protein, (412) 559
 Serum response element, (406) 93; (407) 7; (417) 283
 Sesquiterpene lactone, (402) 85; (409) 396
 Sex hormone-binding globulin, (408) 306
 Sexual dimorphism, (414) 595
 SGLT1, (406) 79
 SH2 domain, (406) 131; (416) 27
 SH3 domain, (403) 35; (414) 308; (417) 21
ShakerB, (400) 197
 Shc, (410) 136
 Shear stress, (409) 277
 Shedding, (401) 235
 Sheep liver, (408) 57
 β -Sheet, (419) 191
 β -Sheet conformation, (415) 196
 SH-group, (400) 42
 Shock, (409) 147
 Short-chain dehydrogenase, (400) 173
 Short-chain dehydrogenase/reductase, (413) 191
 SHP-1, (406) 42; (417) 6
 SHP-2, (401) 49
 SH-PTP2, (408) 331
 SHV transconjugant, (412) 39
 Sialic acid, (404) 192; (413) 202
 Sialoglycoprotein, (413) 389
 Sialyltransferase, (413) 389
 Sigma factor, (413) 309
 Signal peptide, (403) 203
 Signal recognition particle, (408) 1; (409) 375; (416) 225
 Signal sequence trap, (401) 218; (417) 371
 Signal transduction, (400) 163, 243, 324; (401) 133; (402) 265; (403) 57; (404) 227, 307; (405) 81, 99, 229, 356, 390; (406) 28; (407) 7; (408) 115, 292; (409) 53; (410) 11, 25, 34, 39, 83; (411) 231, 291; (412) 70; (413) 75, 104, 205, 273, 294; (415) 160; (417) 219, 409; (418) 355; (420) 28, 201
 Signal transfer analysis, (414) 430
 Signaling, (408) 182; (412) 161; (416) 183
 Silencer, (407) 177
 Silkworm, (419) 83
 SIN-1, (406) 66; (409) 223
 Single cell RT-PCR, (413) 436
 Single chain antibody, (414) 7
 Single chain Fv, (409) 437
 Single domain antibody fragment, (414) 521
 Single molecule assay, (407) 235
 Single stranded channel, (412) 15
 Single-chain antibody fragment, (415) 235
 Single-chain Fv fragment, (415) 289
 Single-chain variable fragment, (403) 116; (414) 562
 Single-channel current, (409) 391
 Single-photon counting, (408) 319
 Single-stranded DNA, (406) 162
 Single-stranded DNA-binding protein, (411) 313; (413) 181
 Single-strand-specific endonuclease, (409) 151
 Singlet oxygen, (408) 289; (413) 239
 Siroheme biosynthesis, (401) 20
SIS1, (409) 307
 Site-directed mutagenesis, (403) 259, 294; (405) 133; (406) 249; (407) 184; (408) 67; (409) 7, 407; (410) 141; (411) 265; (412) 141, 610; (413) 191; (416) 247; (417) 57; (419) 211
 Site-specific deletion formation, (413) 453
 Site-specific endonuclease, (415) 75
 Site-specific mutagenesis, (407) 159
 Site-specificity, (412) 637
 Size, (416) 187
 Size-exclusion HPLC, (409) 449
 Skeletal muscle, (407) 164, 329; (408) 39; (411) 351; (412) 111, 223, 621; (415) 33, 163; (417) 13, 101; (418) 171, 200, 323
 Slow skeletal muscle, (410) 150
 Sly1 protein, (411) 169
 Sm protein, (404) 70
 Small angle X-ray scattering, (415) 183
 Small G protein, (403) 149; (404) 65
 Small GTP-binding protein, (404) 227
 Small heat shock protein, (409) 101
 Small intestine, (406) 79
 Small stable RNA, (416) 302
 Small-angle X-ray scattering, (414) 79
 Small-cell lung cancer, (415) 263
 Smoking, (414) 549
 Smooth muscle, (408) 191; (410) 356; (413) 441; (420) 47
 Smooth muscle cell, (400) 119; (409) 351; (413) 401; (416) 243
 Smooth muscle cell migration, (414) 471
 Smoothelin, (405) 315
 SN56 cell, (410) 175
 Snake venom, (416) 197
 Snake venom proteinase, (418) 319
 α SNAP, (404) 34
 SNAP, (414) 349
 SNAP-25, (404) 203; (418) 1
 SNARE, (414) 298
 SNARE hypothesis, (404) 34
 SNARE motif, (409) 339; (418) 1
 S-nitrosocysteine, (400) 19
 S-nitrosohaemoglobin, (400) 19
 S-nitrosothiol, (400) 19
 SnRNP, (404) 70
 Sod2, (405) 119
 Sodium, (400) 206
 Sodium borohydride, (420) 171
 Sodium channel, (409) 49; (413) 327
 Sodium ion-motive force, (420) 93
 Sodium nitroprusside, (406) 66
 Sodium pump, (408) 271
 Sodium transport, (405) 119
 Sodium-dependent glucose transport, (406) 79
 Solamargine-BSA conjugate, (404) 279
 Solasodine glycoside, (404) 279
 Solid state ^2H NMR, (405) 263
 Solid state NMR, (410) 269
 Solid-phase synthesis, (413) 409
 Solubility, (401) 113
 Solubilization, (416) 359
 Soluble enzyme, (417) 365
 Soluble proteinous factor, (409) 273
 Soluble pyrimidine nucleotidase, (419) 263
 Soluble receptor, (412) 379
 Solution X-ray scattering, (416) 72
 Somatostatin, (401) 83; (408) 261; (411) 301; (415) 281; (419) 92
 Somatostatin receptor, (406) 165
 Sonic hedgehog, (404) 319
 Sorbitol, (408) 57
 Sorcin, (409) 1
 Soybean, (404) 283
 Soybean (*Glycine max*), (410) 126
 Soybean lipoxygenase-1, (408) 324
 Sp1, (403) 87
 SP1, (416) 254
 Sp1, (417) 325
 Specificity, (404) 241
 Sperm, (410) 343
 Spermathecin AQN-1, (407) 201
 Spermatogenesis, (407) 225; (416) 164
 Spermatozoa, (411) 39; (413) 11
 Sphingolipid, (410) 34; (411) 211; (417) 341
 Sphingomyelin, (405) 55; (415) 271
 Sphingomyelin cycle, (411) 260
 Sphingosine, (407) 97; (412) 9; (416) 113
 Sphingosine 1-phosphate, (404) 173; (410) 34; (412) 197; (417) 279, 341; (418) 149; (420) 196
 Sphingosine kinase, (417) 173
 Sphingosylphosphorylcholine, (410) 34; (417) 279
 Spin label, (415) 145; (416) 103
 Spin trap, (407) 148; (418) 73
 Spinach, (408) 30
 Spinach chloroplast, (418) 157
Spinacia oleracea, (403) 283; (414) 567
Spinacia oleracea L., (416) 57
 Spin-trapping, (403) 127
 [^3H]Spiperone binding assay, (401) 252

- Spiral aggregate, (416) 251
Spirodela oligorrhiza, (411) 236
 Spleen, (414) 1
 Splenocyte, (418) 235
 Splice variant, (418) 83
 Splicing variant, (408) 52
 Spongiform encephalopathy, (412) 359
 Spot 14, (401) 38
 Sp-related transcription factor, (411) 383
 Squid axon, (401) 6
 Src, (403) 35
 Src family kinases, (406) 11
 SSB, (411) 313
SSBI, (409) 307
 Stabilization, (412) 397; (419) 27
 Stable expression, (415) 67
 Stable liposome-plasmid complex, (400) 233
 Stallion seminal plasma HSP-1 and HSP-2, (407) 201
 Staphylococcal γ -hemolysin, (410) 333
 Staphylococcal leukocidin, (415) 96
Staphylococcus aureus, (412) 337
 Stargardt's disease, (409) 247
 STAT, (408) 182
 Stat protein, (412) 161
 Stat1, (408) 33
 STAT3, (401) 49; (405) 99
 Stathmin, (416) 149
 Statistical analysis, (404) 140
 Stem cell, (407) 313
 Stepper motor, (414) 485
 Stepwise folding, (407) 37
 Stereochemical analysis, (403) 203
 Stereoselectivity, (405) 153
 Stereospecificity, (414) 197
 Steroid, (405) 224
 Steroid hormone, (415) 335
 Sterol, (400) 271; (414) 129
 Stimulatory antibody, (416) 212
 Stimulatory signal induction, (410) 17
 Stoichiometry, (409) 232; (410) 243; (416) 77
 Stokes radius, (403) 245
 Stop codon, (414) 165; (419) 153
 Stopped-flow, (412) 305
 Stopped-flow kinetics, (405) 363
 Store-regulated channel, (403) 83
 β -Strand, (414) 590
Streptococcus mutans, (410) 275
Streptomyces, (405) 267
 Streptozotocin, (407) 148, 297; (415) 299
 Stress, (402) 4; (414) 153
 Stress fiber, (404) 118; (410) 68
 Stress protein, (417) 316
 Stress response, (402) 145; (403) 236; (420) 186
 Stress-activated protein kinase, (409) 57; (418) 144; (420) 201
 Stress-induced protein, (419) 69
 Stringent response, (402) 4
 Stroke, (414) 117
 Stromal ascorbate peroxidase (EC 1.11.1.11), (413) 21
 Stromal cell, (402) 21
 Stromelysin, (418) 305
 Stromelysin-1, (412) 453; (417) 337
 Structural change, (415) 49
 Structural motif, (407) 37
 Structural similarity, (407) 37
 Structure, (403) 51; (409) 457; (410) 49; (414) 425; (419) 191
 Structure activity study, (414) 226
 Structure and function, (407) 253
 Structure prediction, (400) 297; (401) 1; (404) 234; (413) 364; (417) 253
 Structure/sequence compatibility evaluation, (415) 129
 Structure-activity relationship, (410) 131, 437; (417) 333
 Structure-based modeling, (413) 379
 Structure-function relationship, (404) 211; (405) 277; (406) 216
Styela clava, (410) 490; (412) 144
 Styelin, (412) 144
 S-type lectin, (409) 417
 Styrene, (405) 153
 Subcellular localization, (410) 169; (416) 291
 4.2 Subdomain, (411) 60
 Submission, (406) 106
 Submitochondrial particle, (411) 365
 Substance P, (416) 335
 Substrate activation, (400) 42
 Substrate binding, (411) 346; (414) 213
 Substrate conformation, (400) 263; (416) 369
 Substrate interaction, (414) 203; (415) 253
 Substrate specificity, (407) 105, 289; (412) 547; (413) 142; (420) 7, 121
 Subtilisin, (411) 128
 Subtilisin type, (405) 277
 Subtracted cDNAs, (413) 349
 Subtractive cDNA cloning, (415) 212
 Subtractive hybridization, (414) 146
 Subtype, (401) 83
 Subtype specificity, (406) 165
 α Subunit, (405) 281; (408) 271; (420) 107
 α 1-Subunit formed homo-oligomeric channel, (414) 99
 α _{IE}-Subunit, (408) 261
 β Subunit, (408) 75, 271; (415) 67; (420) 74
 Subunit 9, (404) 179
 Subunit c, (404) 269
 Subunit composition, (407) 137
 Subunit dissociation, (409) 449; (416) 61
 Subunit interaction, (407) 1
 Succinate-fumarate exchange, (417) 114
 Sucrose synthase, (410) 126; (420) 151
 Sucrose:fructan 6-fructosyltransferase, (400) 355
 SulA, (414) 402
 Sulfhydryl group, (408) 135
 Sulfonyleurea, (412) 121
 Sulfonyleurea receptor, (401) 59; (409) 232; (411) 255
 Sulphonated compound, (420) 86
 Sulphonyl radical, (418) 91
 Sulphydryl-specific reagent, (400) 155
 SUMO, (417) 297
 Sunflower protoplast, (411) 115
 Sunscreen, (418) 87
 Superantigen, (413) 174
 Superinduction, (418) 135
 Superoxide, (403) 127; (409) 147, 223; (415) 21, 64; (417) 231
 Superoxide anion, (401) 123; (404) 27; (412) 461
 Superoxide dismutase, (401) 15; (403) 100, 131; (404) 27; (406) 142; (410) 309; (414) 122, 365
 Superoxide dismutase induction, (416) 69
 Superoxide radical, (410) 309
 SUR, (402) 1
 Suramin, (416) 297
 Surface antigen, (413) 265
 Surface hydrophobicity, (406) 184; (420) 151
 Surface plasmon resonance, (411) 169; (412) 270; (413) 359
 Swiss 3T3 cell, (415) 71
 Syk, (416) 27
 Symmetric GroEL-GroES complex, (405) 195
 Synapse, (414) 308; (419) 175
 Synapse formation, (403) 163
 Synaptic vesicle, (417) 177; (419) 175
 Synaptic vesicle Endocytosis, (413) 319
 Synaptogenesis, (418) 275
 Synaptotagmin, (404) 203
 Synchrotron radiation, (412) 573
 Syndet, (418) 1
Synechococcus, (404) 129; (416) 179
Synechococcus sp. strain PCC6301, (416) 302
Synechocystis, (408) 201
Synechocystis 6803, (406) 89; (414) 585
Synechocystis sp. PCC 6803, (414) 193
 Synergism, (416) 373
 Synergistic effect on DNA synthesis, (415) 71
 Synovial fluid, (418) 305
 Syntaxin, (404) 203; (411) 48
 Synthesis, (401) 117
 2-5A Synthetase, (408) 177
 Synthetic ceramide, (411) 260
 Synthetic peptide, (405) 385
 Synthetic substrate, (412) 295
 2,4,5-T, (407) 69
 T cell, (407) 211

- T cell costimulation, (407) 63
 T dimer, (409) 201
 T gene polymorphism, (409) 201
 T lymphocyte, (404) 307; (414) 444
 T lymphocyte activation, (418) 224
 T4, (411) 60
 T7 RNA polymerase, (400) 263
 Tacrine analogues, (409) 155
 Tailored protein, (410) 131
 Tamoxifen, (400) 145; (409) 79; (410) 87
 TAP, (416) 353
 Target protein, (410) 403
 Targeting, (407) 275
 Targeting subunit, (418) 210
 Taste bud, (414) 461
 Tau, (411) 369; (418) 35
 Tau protein, (409) 57; (411) 183; (412) 578
 Taurine, (400) 131
 Tautomeric form, (402) 157
 Tax1, (406) 263
 Taxol, (405) 73
 TaxREB, (414) 146
 T-box protein, (409) 201
 TC21, (414) 239
 TCA cycle, (412) 531
 T-cell, (402) 36
 TCR activation, (417) 292
 TE-85, (414) 343
 Teleost, (405) 91; (411) 145
 Teleost fish, (406) 279
 Telomere, (400) 37
 TEM transconjugant, (412) 39
 Temperature dependence, (414) 285
 Temperature gradient thermometry, (412) 241
 Temporary inhibition, (411) 128
 Tendril, (407) 230
Tenebrio molitor, (409) 109
 Tensin, (402) 73
 Tentoxin, (419) 23
 Teratocarcinoma cell (F9), (414) 65
 Terminal deoxynucleotidyl transferase, (410) 423
 Terminal oxidase, (409) 128
 Termination, (407) 353
 Testes, (413) 385
 Testosterone, (407) 211
 Tetanus, (409) 339
 TetK, (412) 337
 Tetrachloroethene reductase, (409) 421
 Tetracycline, (405) 167; (410) 259; (412) 337
 Tetracycline resistance, (419) 211
 Tetraethyl ammonium, (419) 107
Tetrahymena rDNA, (413) 449
 Tetrapyrrole, (414) 23
 Tetratricopeptide repeat (TPR), (400) 136
 Tetravalent sLex glycan, (419) 220
 Tetrodotoxin, (409) 49
 TFF-domain peptide, (408) 121
 TFIID, (411) 189
 TFIIF, (410) 477
 TGF- β , (411) 102; (413) 401; (414) 1
 TGF β 1, (416) 243
 TGF- β 1 binding, (411) 164
 TGN38, (416) 27
 Thapsigargin, (403) 191; (408) 141; (415) 335
 The first intron, (413) 92
 Thermal denaturation, (412) 625
 Thermal regulation, (402) 62
 Thermal stability, (405) 241; (410) 141; (411) 201; (414) 122
 Thermal unfolding, (411) 346
 Thermodynamics, (419) 27; (420) 134
 Thermoinactivation, (418) 243
 Thermolysin, (405) 241
 Thermophile, (413) 194
 Thermophilic enzyme, (402) 102
Thermoplasma acidophilum, (404) 263
 Thermostability, (403) 268; (406) 142; (407) 280
Thermus thermophilus, (415) 155; (420) 139
 Thiamin diphosphate, (414) 209
 Thiamine diphosphate, (400) 42; (403) 249; (418) 11
 Thia-Net, (420) 156
 Thiodiglycol, (412) 281
 Thioester formation, (417) 297
 Thiol, (414) 247, 497
 Thiol oxidation, (406) 126; (411) 269
 Thiol status, (406) 126
 Thionin, (410) 338
 Thioredoxin, (406) 249; (414) 567; (416) 381
 Thioredoxin reductase, (412) 318
 Thioredoxin-dependent peroxidase, (407) 32
 Thiostrepton, (406) 123
 Thiyl radical, (411) 269; (414) 497; (418) 91
 Thrombin, (412) 526; (420) 28
 Thromboxane synthase, (409) 242
 Thylakoid membrane, (408) 206
 Thylakoid-bound ascorbate peroxidase, (413) 21
 Thymic peptide, (415) 25
 Thymidine kinase, (404) 299
 Thymine hydroperoxide, (410) 210
 Thymocyte, (408) 141; (410) 285; (418) 131
 β -Thymosin, (414) 39
 Thyroid, (416) 69
 Thyroid hormone, (416) 19; (418) 171
 Thyroid hormone receptor, (416) 291
 Thyroid stimulating hormone, (416) 69
 Thyrotropin-releasing hormone, (403) 287
 Thyroxine, (412) 173
 Tight-binding, (412) 425
 TIGR gene, (413) 349
 Tilapia gill, (405) 91
 TIM barrel protein, (403) 268
 Tim11, (411) 195
 Time-resolved fluorescence, (407) 333; (408) 67
 TIMP-2, (412) 453
 Tissue, (414) 581
 Tissue differentiation, (414) 258
 Tissue distribution, (401) 267; (415) 243; (420) 47
 Tissue engineering, (403) 159
 Tissue expression, (403) 61; (411) 164; (417) 65
 Tissue factor, (407) 116; (413) 359
 Tissue inhibitor of metalloproteinases, (401) 213
 Tissue necrosis factor α , (400) 333
 Tissue transglutaminase, (404) 307
 Tissue-factor pathway inhibitor, (407) 116
 Tissue-specific gene expression, (414) 285
 Tissue-specific subunit, (402) 53
 Titanium dioxide, (418) 87
 Titin, (401) 65
 Titration kinetics of Asp-85, (416) 167
 TLC immunostaining, (404) 279
 T-lymphocyte, (402) 213; (405) 253; (414) 501; (417) 301
T_m curves, (410) 201
 Tn antigen, (412) 190
 Tn receptor, (406) 296
 TNF receptor, (410) 361
 TNF- α , (410) 238; (416) 324
 TNF α convertase, (400) 333
 Tobacco, (413) 181; (414) 289; (419) 131
 Tobacco transformation, (413) 294
 Tocopherol, (417) 261
 α -Tocopherol, (409) 105
 α -Tocopherol acetate, (417) 349
 Tom20, (404) 314
 Tomato, (415) 91
 Topoisomerase II, (413) 7
 Topoisomerase II inhibitor, (406) 267
 Topoisomerase inhibitor, (406) 151; (411) 215
 Topology, (416) 153
 Torsades de pointes, (414) 435
 Tosyl-lysine chloromethylketone, (418) 175
 Toxin, (403) 51; (414) 79; (416) 230
 Toxin active site, (401) 95
 Toxin assembly, (401) 95
 Toxin inhibitor, (410) 303
 Toxin phosphorylated by protein kinase A, (415) 96
 Toxin receptor, (414) 303
 Toxoplasma, (406) 123

- tPA, (411) 102
 TPA, (412) 30, 420
 TR, (412) 629
 TRAIL, (416) 329
 Transactivation, (401) 267; (406) 263; (408) 47
 Transactivator tTA, (405) 167
 Trans-complementation, (413) 16
 Transcript, (419) 121
 Transcript release, (410) 461
 Transcriptinal activation, (413) 60
 Transcription, (400) 263; (401) 267; (403) 100; (404) 95; (405) 373, 394; (406) 263, 271; (407) 191; (410) 301; (412) 277, 355, 597; (413) 304; (414) 268; (415) 217
 Transcription activation, (414) 111
 Transcription coactivator, (400) 9
 Transcription factor, (400) 9, 243; (401) 30; (408) 25, 235; (409) 201; (410) 22; (412) 285; (414) 219; (416) 254
 Transcription factor NF- κ B, (402) 85
 Transcription initiation site, (413) 92
 Transcription promoter, (418) 315
 Transcription regulation, (400) 9; (411) 189
 Transcription start site, (418) 157
 Transcription termination, (410) 461
 Transcriptional activation, (404) 227; (411) 189
 Transcriptional control, (417) 81
 Transcriptional interference, (420) 20
 Transcriptional regulation, (409) 74, 96; (410) 235; (414) 333; (415) 16; (418) 215, 269; (419) 37
 Transducin, (411) 179
 Transfection, (405) 107; (409) 333
 Transfection (Ba/F3 cells), (407) 141
 Transfection efficiency, (409) 188
 Transfer protein, (409) 105
 Transferred NOE, (412) 115
 Transferrin, (411) 93; (413) 364; (414) 409; (416) 139; (417) 253
 Transformation, (410) 73
 Transforming growth factor α , (407) 275
 Transforming growth factor (TGF)- β 1, (403) 236
 Transforming growth factor- β , (410) 249; (419) 9
 Transforming growth factor- β 1, (403) 57
 Transgenic mouse, (401) 99; (407) 313; (417) 89
 Transgenic plant, (415) 235
 Transglutaminase, (408) 171; (413) 147
 Trans-Golgi network, (419) 271
 Transient-state kinetics, (411) 269
 Transition metal, (416) 254
 Transition state, (410) 63
 Transketolase, (418) 11
 Translation, (414) 268; (419) 1
 Translation inhibitor, (416) 239
 Translation initiation, (414) 19; (419) 281
 Translation initiation efficiency, (411) 275
 Translation initiation factor, (409) 407
 Translation termination, (414) 165
 Translational control, (400) 304; (411) 245; (416) 239; (419) 58
 Translational regulation, (405) 333
 Translocase, (419) 235
 Translocation, (415) 249
 Transmembrane signaling, (414) 327
 Transmissible spongiform encephalopathy (TSE), (413) 277, 282; (417) 400
 Transmitter release, (404) 203
 Transmitter-gated channel, (418) 195
 Transplantation, (407) 313
 Transport, (404) 289; (410) 447; (414) 397; (417) 114
 Transporter, (409) 247
 Transportin, (419) 249
 Transposable element, (405) 305
 Trans-splicing, (409) 375
 Transthyretin, (418) 297
 Trefol factor family, (408) 121
 Trehalose, (405) 11; (412) 615; (416) 1
 Triacylglycerol, (404) 111
 TRiC, (414) 95
Trichoderma reesei, (420) 121
Trichoderma reesei cellulase, (407) 291
Trichoderma reesei RUTC 30, (405) 111
Trichosporon penicillatum, (414) 439
 Trifluoroethanol, (416) 72, 265
 Trigger factor (*E. coli*), (407) 184
 Triiodothyronine, (418) 265
 Trimer, (409) 437
 Tripeptidyl-peptidase II, (405) 277
 Trithorax-like gene, (414) 285
 Triton X-114, (401) 158
 trkA, (417) 173
 tRNA, (407) 13; (409) 320
 tRNA conformation, (411) 123
 tRNA gene, (405) 305
 tRNA gene transcripts, (411) 123
 tRNA identity elements, bacteriophage T5, (411) 123
 tRNA processing, (418) 157
 tRNA-guanine transglycosylase, (416) 93
 tRNA^{Phe}, (420) 139
 Troglitazone, (400) 119
 TRPC, (403) 83
 Truncated form, (406) 171
 Truncation, (410) 223
Trypanosoma brucei, (404) 253; (414) 449
Trypanosoma cruzi, (401) 259
 Trypanothione, (414) 449
 Trypsin, (401) 223; (409) 442; (420) 107
 Tryptase, (417) 267
 Tryptic digestion, (402) 189
 Tryptophan, (408) 67
 Tryptophan fluorescence, (409) 7; (412) 625
 Tryptophan hydroxylase, (406) 106
 Tryptophanyl-tRNA synthetase, (408) 177
 TSG-6, (410) 413
 TSH receptor, (409) 469; (419) 171
 t-SNARE, (411) 48, 169
 TT232, (419) 92
 TTX, (416) 11
 Tube morphogenesis, (415) 321
 Tubulin, (405) 73
 α -Tubulin, (414) 146
 Tubulin, (419) 87
 Tubulin assembly inhibition, (416) 251
 Tubulin expression, (417) 33
 Tubulin regulation, (417) 33
 Tubulus, (410) 481
 Tuftsin, (412) 227
 Tumor, (415) 308
 Tumor cell, (414) 125; (418) 19
 Tumor cell apoptosis, (411) 67
 Tumor growth, (419) 201
 Tumor growth factor β , (413) 401
 Tumor necrosis factor, (406) 83, 101; (416) 183, 329
 Tumor necrosis factor α , (406) 175; (409) 46; (412) 385; (415) 217; (418) 119
 Tumor necrosis factor- α expression, (405) 213
 Tumor necrosis factor- α -converting enzyme, (418) 319
 Tumor progression, (403) 181
 Tumor promotion, (416) 230
 Tumor suppressor, (409) 41
 Tumorigenesis, (419) 239
 Tumour necrosis factor- α , (409) 365
 Tungstate, (413) 35
 Tunicate, (400) 158; (410) 490; (412) 144
 β - and γ -Turn secondary structure, (417) 97
 Turnover, (408) 276
 Two basepair deletion, (400) 108
 Two electrode voltage-clamp, (404) 56
 Two hybrid analysis, (400) 341
 Two P domains, (402) 28
 Two-component system, (406) 89
 Two-dimensional gel electrophoresis, (416) 161; (417) 17
 Two-dimensional NMR, (409) 227
 Two-dimensional polyacrylamide gel electrophoresis, (404) 125; (419) 1
 Two-hybrid system, (401) 65; (403) 95, 197, 200; (409) 166
 Ty3, (405) 305
 Type II ligand, (409) 396
 Type III secretion, (417) 168
 Type-I procollagen, (409) 63
 TypeIII module, (412) 48

- Tyrosination, (419) 87
 Tyrosine, (409) 223
 Tyrosine aminotransferase, (405) 175
 Tyrosine fluorescence, (411) 359
 Tyrosine kinase, (403) 35, 45; (410) 83, 187; (414) 444; (417) 301
 Tyrosine kinase inhibitor, (403) 40
 Tyrosine phosphatase, (409) 33
 Tyrosine phosphorylation, (400) 11; (401) 133; (403) 299; (408) 331; (410) 136; (411) 322, 327; (416) 27; (419) 4
 Tyrphostin, (410) 187
 Tyrphostin AG-490, (408) 327

 U2 snRNA, (404) 70
 UBC gene family, (409) 211
 Ubch9, (417) 297
Ubi genes, (414) 373
 Ubiquinol, (410) 254
 Ubiquinone, (404) 272; (412) 490
 Ubiquinone biosynthesis, (414) 373
 Ubiquitin, (403) 313; (405) 148, 175, 281; (406) 17; (411) 308; (412) 102, 331, 521; (416) 281
 Ubiquitin ligase, (420) 25
 Ubiquitination, (417) 297
 Ubiquitin-binding subunit, (412) 331
 Ubiquitin-conjugating enzyme (E2), (409) 211
 Ubiquitin-proteasome pathway, (417) 203
 UDP-galactose 4-epimerase, (409) 449
 Ulcer, (408) 121
 Ultracentrifugation, (409) 449
 Ultrafiltration, (414) 39
 Uncoating, (415) 227
 Unconventional myosin, (414) 599
 Uncoupler, (412) 179
 Uncoupling, (411) 365; (412) 157; (416) 15, 19, 77
 Uncoupling protein, (406) 196; (408) 39, 166; (412) 111; (418) 171, 200
 Uncoupling protein 2, (418) 323
 Unfolding pathway, (405) 241
 5'-Untranslated region, (411) 275; (414) 19; (417) 130
 u-PA, (413) 401
 uPA receptor, (413) 11
 uPA/plasmin system, (405) 157
 Ure2p, (415) 6
 [URE3], (415) 6
 Urinary trypsin inhibitor (UTI), (417) 337
 Urine, (404) 61
 Urokinase, (411) 322; (414) 471; (420) 79
 Urokinase receptor, (420) 79
 Urokinase-type plasminogen activator, (402) 265
 Urokinase-type plasminogen receptor, (402) 265
 UTP, (412) 30
 3'-UTR, (419) 268
 5'-UTR, (407) 51
 UV irradiation, (417) 390
 UV radiation, (412) 70
 UV response, (413) 239

 V/H⁺ ATPase, (419) 37
 Vaccinia virus, (409) 141; (413) 265
Vaccinium myrtillus, (415) 186
 Vacuolar proton ATPase, (401) 207
 Vacuolar-type H⁺-ATPase, (404) 61
 Vacuole, (400) 324; (411) 48; (420) 86
 VAMP, (409) 339
 VAMP-2, (404) 34
 van der Waals interaction, (418) 43
 van't Hoff analysis, (417) 97
 Vanadate-containing chloroperoxidase, (409) 317
 Vanillyl-alcohol oxidase, (402) 33
 Variability pattern, (416) 99
 Variant, (400) 211
 Vas deferens, (420) 47
 Vascular disease, (405) 26
 Vascular endothelial cell, (409) 442; (415) 321
 Vascular endothelial growth factor, (403) 139; (418) 115
 Vascular endothelium, (415) 335
 Vascular smooth muscle cell, (404) 249; (417) 283
 Vascular-specific form, (405) 315

 Vasoactive intestinal polypeptide, (413) 405
 Vasopressin V1a receptor, (413) 323
 Vasorelaxant activity, (414) 377
 V-ATPase, (411) 239
 Vav, (401) 133
vav proto-oncogene, (403) 31
 VCAM-1, (402) 21
 Vectamidine, (414) 187
 Ventricular natriuretic peptide, (414) 377
 Ventromedial nucleus, (402) 185
 Vertebrate photopigment, (406) 279
 Vesicle transport, (404) 65; (411) 169
 Vesicular acetylcholine transporter, (410) 175
 Vesicular traffic, (414) 349
 Vesicular transport, (411) 48; (413) 395
 VH, (414) 521
Vibrio alginolyticus, (409) 475
Vicia faba cotyledon, (413) 294
Vicia villosa, (412) 190
 Vinblastine, (416) 251
 Vinblastine-4'-anthranilate, (416) 251
 Vinculin function, (413) 197
 Vipoxin, (412) 573
 Viral suppression of the MHC, (400) 141
 Virosome, (404) 164
 Vision, (406) 6
 Visual pigment, (406) 6
 Vitamin E, (401) 167; (409) 105; (410) 254; (414) 541; (417) 349; (418) 15
 Vitamin K, (415) 59
 Vitamin K-dependent carboxylase, (413) 1
 Vitamin K-dependent glutamyl carboxylase, (407) 85
 Vitronectin, (420) 79
 Vma1 protozyme, (412) 518
 Voltage dependence, (416) 11
 Voltage gating, (411) 201; (415) 317
 Voltage-dependent anion-selective channel, (416) 187
 Voltage-dependent inactivation, (405) 337
 Voltage-dependent potassium channel, (400) 215
 Voltage-gated sodium channel, (400) 183
 Voltage-gating, (409) 361
 Von Willebrand factor, (405) 167; (415) 212; (420) 28
 Von Willebrand Factor A, (400) 297; (413) 129
 vp165, (409) 461
 vpr, (401) 197
 Vpr, (410) 145
 Vpu, (405) 299
 v-sis-transformed cell, (416) 297

 Water in proteins, (401) 153
 Water oxidation, (410) 243
 Water-protein interaction, (418) 127
Weaver mutation, (405) 291
 Weil-Felix test, (411) 221
 Western blot, (411) 39
 Western blotting, (412) 153
 Wheat, (416) 130
 Wheat germ, (417) 227
 White rot, (407) 89
 White-rot fungus, (412) 370; (413) 446
 Wingless, (411) 369
 Wortmannin, (401) 247; (409) 461; (410) 418
 WT1, (409) 41

 Xanthomonadin pigment, (415) 125
Xanthomonas campestris pv. *citri*, (400) 91
 Xanthone, (409) 67
 Xanthone biosynthesis, (420) 143
 Xenobiotic, (411) 206
Xenopus, (412) 495; (417) 184
Xenopus egg extract, (413) 449
Xenopus laevis, (409) 407; (419) 63
Xenopus laevis oocyte, (404) 91
Xenopus oocyte, (400) 215, 341; (401) 252; (402) 12, 28; (404) 56; (413) 323, 327; (420) 191
 XLA, X-linked agammaglobulinemia, (413) 205
 XPS, (414) 233
 X-ray crystal structure, (407) 47; (412) 388; (418) 319

X-ray crystallography, (400) 336; (410) 131; (411) 53; (412) 107, 190; (414) 219, 327, 492; (417) 352
X-ray diffraction, (409) 188; (412) 397; (413) 486; (415) 268
X-ray diffraction analysis, (400) 91; (403) 136; (406) 171
X-ray small angle scattering, (413) 424
X-ray structure, (404) 208; (412) 217, 573; (419) 32

YB-1, (417) 390
YCF1, (402) 1
Yeast, (400) 243; (401) 20; (403) 173; (404) 140; (408) 217; (411) 48, 133, 169, 211; (412) 355; (415) 49
Yeast complementation, (415) 206
Yeast expression, (400) 206
Yeast homologue, (411) 373
Yeast mitochondrion, (410) 447; (412) 207, 410; (417) 114
Yeast prion, (415) 6
Yeast two-hybrid, (412) 102
Yeast two-hybrid screening, (412) 446
Yersinia pseudotuberculosis, (413) 174
Yperite, (412) 281
YPM, (413) 174
Ypt1 GTPase, (411) 169

Zea mays, (413) 169; (414) 571; (416) 143; (417) 57
Zea mays L. *pulvinus*, (420) 151
Zeaxanthin, (401) 262
Zebrafish embryo, (407) 191
Zinc, (400) 51; (404) 216; (405) 37; (406) 162; (408) 57; (415) 71; (420) 69
Zinc binding, (405) 273
Zinc endopeptidase, (418) 1
Zinc enzyme, (412) 301
Zinc finger, (416) 164
Zinc finger-DNA interaction, (417) 71
Zinc inhibition, (400) 336
Zinc oxide, (418) 87
Zinc-containing ferredoxin, (417) 223
Zinc-endopeptidase, (409) 339; (418) 319
Zinc-regulated factor 1, (416) 254
Zinquin, (405) 37
Z-line, (401) 65
Zn(II), (418) 351
Zymogen convertase, (402) 181
Zymography, (402) 111
zz-HSQC, (405) 16