

A

- α_{1F} (427) 96
 A549 (427) 129
 A23187 (427) 309
 AA (427) 345
 AAA family (431) 309
 AAA-ATPase (423) 113; (435) 211; (437) 255
 β A4 amyloid (436) 439
 Abasic substrate analog (433) 233
 ABC transporter (425) 151; (426) 238; (431) 309; (433) 179; (441) 266
 ABI1 (421) 185
 ABI2 (421) 185
 Abiotic stress (437) 87
 Abortive transcription (427) 337
 Absciscic acid (421) 185; (428) 177, 193
 Absciscic acid responsive element (428) 193
 Absciscic acid-insensitive (428) 177
 Absorption difference spectroscopy (430) 323
 Absorption spectrum (423) 155
Acanthamoeba castellanii (425) 171
 A431 cell (424) 22
 A549 cell (437) 61
 Acein-1 (438) 255
Acetobacterium woodii (434) 325
 Acetyl xylan esterase (423) 35
 Acetyl-Asp-Glu-Val-Asp-aldehyde (427) 247
 Acetylcholine (431) 411
 Acetylcholine receptor (426) 212; (431) 411
 Acetylcholinesterase (424) 279; (440) 85; (441) 220
 Acetyl-CoA carboxylase (422) 43
 Acetyl-coenzyme A carboxylase (427) 377
N-Acetyl-D-mannosamine (426) 191
N-Acetylglucosaminyltransferase I (436) 228
 Acetyllysine specific antibody (436) 349
N-Acetylmuramidase (437) 153
 Acetyltransferase (435) 163
 Acidic lysozyme (437) 153
 Acidic pH (434) 317
 Acidic phospholipid (421) 268
 Acquired immunodeficiency syndrome (441) 419
 Acrosome reaction (426) 47; (427) 309
 α A-Crystallin mutant (430) 401
 Actin (423) 53, 93; (425) 225, 251, 485, 495; (426) 255; (433) 294; (436) 419
 α -Actin (425) 123
 Actin binding (423) 173; (431) 134
 Actin binding site (441) 337
 Actin conformation (430) 266
 Actin cytoskeleton (427) 193; (430) 205
 Actin dynamic (441) 251
 Actin microfilament (430) 353
 Actin organization (431) 49
 Actin polymerization (427) 353; (429) 95
 Actin-binding protein (430) 205
Actinia equina (427) 149
 α -Actinin (426) 255
 Activated macrophage (431) 315
 Activation (422) 185; (424) 262; (440) 414
 Activation mechanism (425) 29
 Activation of calpain (433) 1
 Activation parameter for electron transfer (436) 239
 Activation peptide (432) 94
 Activation process (425) 126
 Activator protein-1 (435) 96
 Active efflux (425) 151
 Active oxygen species (432) 13
 Active site (422) 218; (435) 225; (437) 273; (438) 231
 Active site flexibility (440) 81
 Active transport (431) 309; (441) 53
 Active-site-directed inhibitor (437) 122
 Activin (422) 274
 Activity (432) 179; (436) 174
 Actomyosin (422) 235
 Acute-phase gene (433) 15
 Acyl carrier protein (433) 132
 Acylation (433) 132
 Acyl-CoA dehydrogenase (437) 122
 2-Acyl lysophosphatidylcholine (437) 193
 Acylphosphatase (433) 205
 Acylphosphate internucleotide group (431) 453
 Adaptation (429) 365
 Adaptin (435) 263
 Adaptor (435) 263
 Adaptor protein-2 (441) 231
 (6-4) Adduct (428) 269
 Adenine dinucleotide (430) 78
 Adenine nucleotide translocase (426) 97
 Adenine nucleotide translocator (421) 213; (433) 261
 Adenine-rich 5' untranslated region (433) 98
 Adenosine (434) 305
 Adenosine 3',5'-cyclic monophosphate (422) 165
 Adenosine agonist (429) 139
 Adenosine diphosphate (422) 291
 Adenosine diphosphate-ribosylation factor 1 (430) 231
 Adenosine diphosphopyridoxal (427) 377
 Adenosine receptor (429) 139
 Adenosine triphosphate (425) 19, 523
 Adenosine triphosphate binding site (426) 297; (427) 377
 Adenosine triphosphate-dependent proteolysis (422) 218
S-Adenosyl-L-methionine (426) 305
S-Adenosylmethionine as 5'-deoxyadenosyl radical donor (437) 309
S-Adenosylmethionine synthetase (427) 119
 Adenovirus (434) 108; (441) 215
 Adenovirus E1A (429) 183
 Adenovirus vector (425) 329
 Adenylate metabolism (440) 64
 Adenyl cyclase (424) 216; (425) 137; (426) 377; (431) 189; (436) 46, 92; (441) 437
 Adenyl cyclase type II (422) 209
 Adhesion (421) 141; (423) 243; (429) 89, 123; (430) 227; (440) 414
 Adhesion molecule (421) 12; (440) 434; (441) 20
 Adipocyte (435) 125; (439) 287
 Adipocyte differentiation (438) 55
 Adipose tissue (431) 371
 Adjuvant (441) 353
 ADP-ATP translocase (422) 328
 ADP-glucose pyrophosphorylase (429) 147
 ADP-ribosyl cyclase (428) 200; (431) 19; (439) 291
 ADP-ribosylating toxin (421) 268
 ADP-ribosylation factor (422) 108
 Adrenal gland (422) 354; (434) 33
 Adrenaline (428) 17; (436) 46
 $\alpha_{2D/A}$ -Adrenergic receptor (427) 69
 β_3 -Adrenergic receptor (429) 356
 α_1 -Adrenoceptor (422) 279
 α_{1B} -Adrenoceptor (422) 141
 α_2 -Adrenoceptor (430) 209
 β_3 -Adrenoceptor (429) 395
 Adrenocorticotropin hormone (427) 255; (434) 33
 Adrenoleukodystrophy (425) 305; (426) 342; (431) 1; (433) 179
 Adrenomedullin (426) 233
 Adsorption (422) 175
 Advanced glycation end product (AGE) (425) 355; (427) 381; (437) 24
 A1 extension (431) 7
 Aerobic glycolysis (425) 411
 Aerotaxis (425) 377
 Affinity (423) 159
 Affinity labeling (427) 1, 377
 Affinity modulation (431) 102
 Africa (423) 143
 Aggrecan (428) 171; (430) 186
 Aggregation (431) 279; (441) 271
 Aging (425) 298; (434) 346; (435) 153; (437) 24; (438) 1; (439) 231; (441) 292
 Agonist (428) 17
 Agouti-related protein (428) 59
 Agr (424) 89
 Agrostin (431) 259
 AIDS (422) 363
 Ajmaline (436) 251
 AK-5 (439) 81

- A-kinase regulatory subunit type II (432) 187
 Akt (437) 112
 Akt kinase (437) 221
 Alanine scanning mutagenesis (434) 165
 Alanine substitution mutagenesis (441) 225
 Albumin (427) 309
 Albumin function (439) 9
Alcaligenes xylosoxidans (436) 239
 Alcohol (431) 423; (438) 96
 Alcohol dehydrogenase (426) 362; (436) 67
 Alcohol metabolism (426) 362
 Aldehyde dehydrogenase (429) 225
 Aldoketoreductase (440) 158
 Aldolase (430) 205
 Aldosterone (432) 37
 Aleurone layer (429) 134
 Alga (431) 1
 Alkaline phosphatase (423) 371; (428) 157
 Alkaliphilic thiobacillus (427) 11
 Alkaloid (434) 413
 Alkene monooxygenase (430) 181
 Alkylpurine (431) 12
 Alkyl-substituted methylenecyclopropane acetyl-CoA (437) 122
 Allele (438) 201
 Allele-specific quantitation (426) 352, 357
 Allele-specific TaqMan polymerase chain reaction (426) 357
 Alloxan (440) 55
 All-*trans* retinoic acid (433) 113; (441) 480
 All-*trans*-retinoic acid responsive (440) 158
 Alpha anomer (427) 301
 Alpha catenin (433) 51
 Alpha cell (425) 24
 Alpha satellite DNA (441) 451
 Alpha-helical peptide (421) 7
 Alpha-helix (433) 153
 Alpine plant (425) 97
 Altered peptide ligand (423) 138
 Alternative oxidase (433) 237
 Alternative promoter usage (428) 165
 Alternative RNA splicing (436) 476
 Alternative site reactivity (440) 81
 Alternative splicing (423) 367; (425) 281; (427) 236, 349; (431) 111; (433) 201; (435) 11, 143; (436) 123; (437) 137, 263; (438) 325; (441) 191
 Alternative transcript (430) 327
 Alternative transcription (424) 11
 Alternative transcriptional termination (424) 6
 Alu element (423) 193
 Alzheimer (428) 13; (434) 1
 Alzheimer's disease (421) 73; (423) 227; (424) 136; (425) 225; (426) 248; (427) 153; (430) 419; (433) 73, 201; (436) 28, 439, 445, 471; (437) 207; (441) 220
 Amadori product (441) 116
 Amadori rearrangement product (425) 355
 Amidase (439) 325
 Amide (439) 325
 Amidohydrolase (422) 69
 Amiloride (433) 257
 Amine oxidase (426) 155
 Amino acid (430) 297
 D-Amino acid (434) 231
 Amino acid analogue (428) 68
 Amino acid analysis (440) 365
 D-Amino acid oxidase (436) 119; (438) 263
 Amino acid sequence (427) 149; (431) 367; (440) 239
 Amino acid sequencing (441) 103
 Amino acid transporter (439) 157
 Aminoacylation (436) 99; (440) 273
 Aminoacylation kinetics (426) 135
 Aminoacyl-tRNA binding (429) 417
 Aminoacyl-tRNA synthetase (429) 21; (434) 61; (439) 235
 3-Aminobenzamide (431) 465
 6-Amino-5-bromouracil (438) 91
 γ -Aminobutyric acid (431) 400
p-Aminohippurate (438) 321
 5-Amino-4-imidazolecarboxamide riboside (431) 180
 δ -Aminolevulinic acid synthase (439) 163
 5-Aminolevulinic acid (428) 93
 Aminomalonic acid (436) 209
 6-Aminonicotinamide (434) 97
 Aminopeptidase (433) 68, 219
 Ammonium inhibition (427) 291
 AMP (438) 145
 AMP deaminase (440) 64
 AMP-activated protein kinase (439) 287, 317
 Amphibia (431) 23
 Amphibian (430) 130
 Amphibian skin (429) 41
Amphioxus (437) 15
 Amphiphilic solute facilitator family (425) 79
 5'-AMP-activated protein kinase (431) 180
 α -Amylase gene (423) 81
 β -Amyloid (424) 136; (436) 445
 Amyloid (427) 153; (434) 1; (440) 67, 71
 Amyloid β (430) 419
 Amyloid β /A4 protein fragment 25–35 (421) 73
 Amyloid β -protein (441) 220
 Amyloid precursor protein (427) 367; (431) 63
 β -Amyloid precursor protein (434) 1
 Amyloid protein precursor (428) 13
 Amyloidosis (430) 145
 Anandamide (422) 69, 373; (425) 419; (433) 139; (436) 449
 Anaphylatoxin C5a (434) 245
 Anchor position (421) 95
 Androgen receptor (430) 393
 Androgen regulation (434) 66
 Angiogenesis (423) 334; (425) 441; (438) 91
 Angiotensin (423) 15
 Angiotensin converting enzyme (431) 63, 255
 Angiotensin I-converting enzyme (423) 75; (435) 219
 Angiotensin II (422) 395
 Angiotensin-I-converting enzyme inhibitor (438) 255
 Angiotensin-II (422) 85
 Angiotensinogen (422) 395; (436) 267
 α -3',4'-Anhydrovinblastine (428) 299
 α -3',4'-Anhydrovinblastine synthase (428) 299
 Anion (434) 193
 Anion channel (426) 171
 Anion exchanger (433) 223
 Anion exchanger 1 (438) 315
 Annexin I (425) 523; (438) 279
 Annexin multigene family (434) 300
 Annexin V (423) 265; (431) 195
 Annulate lamellae (428) 52
 Anomalous diffusion (430) 88
 Antenna pigment organization (430) 323
 Antennapedia (427) 203
 Anterior preoptic nucleus (424) 69
 Anther (424) 234
 Anti-apoptosis (432) 17
 Antibacterial activity (425) 131
 Antibacterial peptide (439) 41
 Antibacterial protein (437) 153
 Antibiotic (425) 40
 Antibiotic resistance (435) 163
 Antibody (425) 479; (428) 85; (429) 157; (438) 267; (439) 363
 Antibody engineering (427) 357; (430) 92; (441) 407
 Antibody folding and stability (441) 458
 Antibody insertion (432) 187
 Anticancer agent (421) 277
 Anticancerogen (433) 265
 Antidepressant (422) 146
 Anti-diabetes drug (431) 476
 Antifreeze (430) 301
 Antifreeze protein (426) 121
 Antigen complex (425) 479
 Antigen-binding domain (441) 458
 Anti-gliadin antibody (427) 36
 Anti-HIV protein (431) 85
 Anti-human immunodeficiency virus and chemotactic activity (431) 236
 Anti-idiotypic antibody (423) 239
 Antimicrobial peptide (421) 263; (424) 37; (431) 23; (434) 272; (435) 159; (437) 258
 Antimycin A (431) 245
 Antinociception (421) 280; (436) 449

- Antioxidant (422) 377; (426) 24; (428) 97; (430) 348, 405; (434) 317; (436) 357, 424; (437) 167, 293; (439) 363; (440) 8
- Antioxidant activity (427) 305
- Anti-oxidant defense (424) 257
- Antioxidative protection (425) 97
- Anti-p21ras antibody (439) 197
- Anti-peptide serum (422) 5
- α_1 -Antiproteinase (423) 231
- Antipsychotic (422) 146
- Antirestriction (426) 21
- 'Antirestriction motif' (426) 21
- Antisense (421) 252; (429) 147; (437) 81
- Antisense oligodeoxyribonucleotide (440) 273
- Antisense oligonucleotide (430) 241; (433) 169
- Antisense phosphodiester oligonucleotide (425) 91
- Antisense transfection (438) 101
- α_1 -Antitrypsin (426) 41
- Antitumor (437) 149
- Antiviral agent (430) 17
- API (427) 91; (440) 119
- AP-1 (427) 15; (434) 251
- Ap₃A (433) 283
- Ap₄A (433) 283; (438) 190
- Apaf-1 (426) 151
- APC-cofactor function (433) 28
- Aphanomyces cochlioides* (438) 236
- Apicomplexa (441) 251
- Ap_nA (430) 78
- AP02 ligand (427) 124
- Apolipoprotein A-I (430) 145; (433) 196
- Apolipoprotein A-I/A-II (435) 153
- Apolipoprotein E (421) 105; (425) 225; (428) 13
- Apoptosis (421) 141, 197; (422) 151, 179, 363; (423) 275; (424) 41, 221; (425) 61, 209, 266, 391; (426) 151, 155, 179, 319; (427) 29, 124, 139, 144, 247; (428) 71, 212; (429) 67; (430) 59, 338, 353; (431) 167, 195, 224, 465; (432) 17, 155; (433) 51, 125, 265, 287; (434) 209, 421; (435) 195, 207, 233, 269; (436) 6, 51, 288, 382, 461; (437) 5, 112, 158, 221, 233; (438) 1, 41, 61; (439) 81, 168, 373; (440) 13, 19, 403, 434; (441) 441
- Apoptosis specific protein (425) 391
- Appetite regulation (428) 263
- Apyrase (430) 209
- Arabidopsis thaliana* (424) 100; (427) 175; (428) 229; (429) 259, 403; (431) 39; (434) 387; (436) 76, 283, 318; (437) 11, 56; (440) 147, 425
- Arachidonic acid (422) 10; (430) 154; (434) 295; (437) 229
- Arachidonic acid metabolism (431) 224
- Arachidonic and docosahexaenoic acids (432) 219
- 2-Arachidonoylglycerol (422) 69; (429) 152
- Archaea (425) 87; (434) 372; (439) 281
- Archaeobacterium (426) 86
- Archaeon (428) 217; (430) 73; (432) 99, 141; (434) 13
- ard* gene (426) 21
- Arginine transport (429) 249
- Arrhenius plot (431) 97
- ars* operon (426) 21
- Arterial smooth muscle cell (436) 197
- Arthritis (430) 186
- Artichoke (427) 25
- Articular chondrocyte (438) 85
- Artificial peroxidase (439) 241
- Artificial protein (421) 147
- Aryl hydrocarbon receptor (425) 293
- Arylazide (433) 9
- Ascorbate (421) 41; (430) 293; (431) 473
- Ascorbate oxidase (430) 251
- Ascorbate peroxidase (428) 47
- Ascorbate transport (421) 41
- Ascorbate/dehydroascorbate carrier (421) 41
- Ascorbic acid (428) 97
- Asialoenzyme (431) 255
- Asialoglycoprotein receptor (434) 37
- Asialo-monosialoganglioside 2 (428) 115
- D-Aspartate (434) 231
- Aspartate aminotransferase (427) 179
- Aspartate phosphorylation (441) 242
- Aspartyl phosphate (425) 1
- Assimilate transport (424) 165
- Astrocyte (433) 139
- Astroglia (425) 453
- Asymmetry (423) 343
- 2-5A synthetase (427) 157
- AT₁ angiotensin receptor (428) 147
- AT₁ receptor (423) 15
- AT-AC intron (438) 165
- Ataxia (431) 461
- ATF site (441) 200
- Atherogenesis (431) 327
- Atherogenic index (433) 44
- Atherosclerosis (421) 180; (423) 57; (425) 123; (429) 347; (433) 19, 125, 161; (434) 317; (436) 357; (437) 24; (440) 29
- Atomic force microscopy (421) 69; (425) 217; (427) 109; (430) 12, 51, 105, 112; (436) 179
- ATP (422) 328; (423) 243; (429) 390; (431) 189; (439) 26, 107; (441) 97
- ATP analog (439) 107
- ATP dehydrogenase (437) 197
- ATP hydrolysis (431) 97; (437) 70
- ATP receptor (434) 61
- ATP synthase (426) 217, 301; (431) 419
- ATP synthesis (434) 57; (439) 258
- ATP/ADP antiporter (435) 215; (436) 81
- ATP7B (428) 281
- ATPase (430) 269; (431) 419; (436) 1; (440) 46
- ATP-dependent protease (425) 382
- ATP-dependent proteolysis (432) 179
- δ -Atracotoxin (439) 246
- Attractylolide (438) 150
- AtT20 cells (431) 333
- ATX1* (440) 141
- AURI-C* (425) 117
- Aureobasidin A (425) 117
- Autoantibody (436) 427
- Autoantigen (422) 5
- Autocrine inhibition (436) 335
- Autocrine mechanism (430) 358
- Autoimmunity (436) 427
- Autolysis (436) 367
- Auto-modification (436) 288
- Autophosphorylation (431) 45
- Autoprocessing (441) 467
- Autoregulation (426) 81
- Auxin binding protein (438) 241
- A/V axis (425) 157
- Avian myeloblastosis virus (425) 52
- Avidin (441) 313
- Avidin-biotin technology (441) 313
- 2-N-4-(1-Azi-2,2,2-trifluoroethyl)benzoyl-1,3-bis-(D-mannos-4-xyloxy)-2-propylamine (425) 472
- Azide inhibition (421) 65
- Azide ion affinity (424) 169
- 2,2'-Azo-bis(2,4-dimethylvaleronitrile) (427) 305
- 2,2'-Azinobis(3-ethylbenzthiazoline-6-sulfonate) (438) 195
- Azoospermia (425) 191
- Azurin (440) 93

B

- 7B2 (428) 37
- B₁ kinin receptor (435) 96
- B₁₂ binding motif (436) 401
- B lymphocyte (425) 266; (434) 140
- Ba²⁺ block (429) 375
- Bacillus cereus* (423) 249
- Bacillus circulans* (433) 41
- Bacillus natto* plasmid (422) 243
- Bacillus subtilis* (430) 28; (438) 263; (439) 263
- Background conductance (425) 310
- Bacterial artificial chromosome (436) 283
- Bacterial expression (428) 127; (441) 141

- Bacterial infection (434) 387
 Bacterial leaf spot (438) 245
 Bacterial photosynthesis (430) 323
 Bacterial protein export (431) 339
 Bacterial terminal oxidase (429) 216
 Bacterial toxin (431) 347
 Bactericidal action (439) 329
 Bactericidal activity (432) 9
 Bacteriochlorophyll *a* (432) 27
 Bacteriochlorophyll *c* (430) 323
 Bacteriocin (440) 393
 Bacteriophage ϕ 29 (430) 283
 Bacteriophage lambda (440) 213
 Bacteriophage T7 RNA polymerase (423) 189
 Bacteriorhodopsin (427) 59, 109; (434) 197, 335
 Bacterium (431) 1
Bacteroides fragilis (438) 137
 Baculovirus (422) 132; (423) 159; (427) 144; (429) 390; (436) 11; (441) 49
 Baculovirus *Drosophila* (440) 243
 Baculovirus IAP repeat (BIR) (440) 243
 Band 3 (438) 315
 Band 3 protein (433) 223
 Barley ribosome-inactivating protein (431) 259
 Basal cell membrane (436) 179
 Basement membrane (424) 11; (425) 426; (426) 71; (430) 217; (435) 169
 Basic fibroblast growth factor (436) 197; (439) 351
 Bax (423) 275; (431) 80; (438) 61
 B-B2 monoclonal antibody (426) 67
 B-B4 monoclonal antibody (426) 67
 bCCE 1 splice variant (422) 354
 B-cell chronic lymphocytic leukemia (426) 266
 Bcl-2 (423) 275; (427) 29; (431) 80; (435) 195; (440) 403, 419
 Bcl-x (437) 112
 Bcl-X_L (422) 151
 B-DNA structure (438) 211
 Beckwith-Wiedemann syndrome (433) 245
 Benign familial neonatal convulsion (438) 171
 Benzodiazepine (431) 400
 Benzodiazepinone (428) 250
 Benzoporphyrin derivative monoacid ring A (422) 151; (437) 5
 B-epitope (438) 106
 Beta cell (425) 24
 Beta receptor (439) 115
 Beta subunit (427) 96
 Beta-barrel pore (431) 305
 Beta-oxidation (426) 342
 BIAcore (421) 45; (440) 291
 Bicarbonate (424) 146; (425) 396
 Bi-cistronic mRNA (434) 8
 Bi-component leucotoxin (436) 202
 Bilayer lipid membrane (425) 222; (440) 235
 Biliary excretion (433) 149
 Biliary glycoprotein (425) 141
 Binase (431) 250
 Binding (423) 75; (435) 219
 Binding affinity (440) 199
 Binding and gating coupling (433) 89
 Binding equilibrium (438) 241
 Binding kinetics (426) 255
 Binding properties of GalNAc specific lectins (429) 323
 Binding protein (436) 424
 Binding site (422) 36; (441) 83
 Binding study (429) 385
 Bioactive peptide (438) 255
 Biocatalysis (433) 78
 Bioenergetics (426) 217
 Biofluid (425) 345
 Biogenic amine (427) 255
 Biological activity (421) 27
 Biological methylation (424) 143
 Biologically active peptide (428) 7
 Biomaterial (430) 12
 Biomembrane (434) 421
 Biomodulator (433) 1
 Biosensor (423) 307
 Biosynthesis (434) 231, 413; (437) 142
 Biosynthetic gene cluster (435) 163
 Biotechnology (436) 11
 Biotin (440) 213
 Biotin carboxylase (427) 377
 Biotin synthase (440) 226
 BiP (435) 183
 Biphenylimidazole (423) 15
 Bis-distamycin (439) 346
 Bis-netropsin (439) 346
 Bispecific antibody (422) 259; (432) 45
 Bisphosphonate (433) 19
 Bivascularly perfused rat liver (436) 185
Bjerkandera sp. strain BOS55 (422) 391; (439) 219
 Black lipid membrane (434) 17
bldA gene (421) 221
 Blindness (431) 319
 Blood coagulation (423) 291
 Blood-brain barrier (424) 197
 Blue copper protein (440) 93
 Boar seminal plasma (431) 273
Bombina orientalis (431) 23
 Bone morphogenetic protein (434) 83
 Bone resorption (422) 255
 Botulinum neurotoxin (435) 61
 Botulinum toxin B (429) 234
 Bovine (426) 352
 Bovine adrenal chromaffin cell (435) 229
 Bovine aortic endothelial cell (427) 320
 Bovine β -lactoglobulin (436) 149; (438) 272
 Bovine hippocampus (438) 96
 Bovine iris (428) 304
 Bovine iris sphincter (429) 356
 Bovine leukemia virus (436) 11
 Bovine lung (431) 255
 Bovine pancreatic trypsin inhibitor (429) 31
 Bradykinin (435) 96, 229
 Bradykinin receptor (422) 141
 Brain (423) 254; (427) 41; (428) 263; (429) 27; (435) 149; (436) 92
 Brain fatty acid-binding protein (437) 183
 Brain mitochondrion (439) 373
 Brain stem (439) 334
 Brain-derived neurotrophic factor (424) 285; (439) 93
 Brain-derived neurotrophic factor tyrosine kinase receptor (439) 93
 Brain-specific (433) 37
Branchiostoma (437) 15
Brassica napus (435) 204
Brassica rapa (424) 234; (434) 255
 Breast cancer (426) 225; (431) 12; (437) 107
 Breast tumour (440) 403
 Brefeldin A (435) 237
 BRL 37344 (429) 356
 Bromoenol lactone (434) 295; (437) 225
 Bromoperoxidase (428) 105
 Bronchial epithelium (429) 412
 Brown adipose tissue (440) 450; (441) 447
 Brown fat (431) 80
 Bryophyta (422) 47
 Buffer (425) 222
 α -Bungarotoxin (426) 212; (431) 411
 Bupranolol (429) 356
tert-Butylhydroperoxide (431) 245
 Butyrate (434) 209; (436) 218
- ## C
- C6 cell (429) 139
 Ca²⁺ (422) 349; (425) 523; (428) 89; (431) 210; (433) 1; (438) 177; (441) 111
 Ca²⁺ ATPase mRNA isoform (427) 349
 Ca²⁺ binding (434) 255
 Ca²⁺ channel (425) 137, 317; (427) 96, 220
 Ca²⁺ influx (433) 157; (435) 229

- Ca^{2+} mobilization (431) 19
 Ca^{2+} mobilizing hormone (428) 147
 Ca^{2+} signaling (424) 33
 Ca^{2+} store (435) 229
 Ca^{2+} uptake (440) 218
 Ca^{2+} /calmodulin domain (425) 71
 Ca^{2+} /ethidium penetration (436) 202
 Ca^{2+} /phospholipid-dependent protein kinase C (436) 313
 Ca^{2+} -ATPase (422) 381; (425) 509; (437) 187; (439) 127
 Ca^{2+} -binding protein (423) 45
 Ca^{2+} -dependent proteolysis (422) 113
 $[\text{Ca}^{2+}]$ imaging (436) 271
 Ca^{2+} -independent PLA_2 (432) 219
 Ca^{2+} -release channel (431) 59
Cadherin (421) 208; (429) 207
Caenorhabditis briggsae (424) 279
Caenorhabditis elegans (424) 279; (433) 228; (439) 215; (440) 141
Caenorhabditis elegans C27H5.1 gene product (440) 454
Caffeic acid (437) 167
Calcineurin (425) 323; (430) 414; (441) 111
Calcitonin-gene-related peptide receptor (441) 6
Calcium (421) 115; (424) 202; (425) 175, 277; (429) 44; (430) 209; (434) 283; (435) 187; (436) 92; (437) 229, 267, 297; (438) 279; (439) 127, 357, 373
Calcium binding (421) 100; (423) 329
Calcium calmodulin kinase II (436) 471
Calcium channel (423) 86; (434) 346; (441) 83
Calcium influx (435) 115
Calcium inhibition (432) 59
Calcium ion (430) 385; (432) 94; (438) 211
Calcium regulation (430) 266
Calcium release channel (423) 367
Calcium transient (423) 198
Calcium/calmodulin-dependent protein kinase II (440) 287
Calcium-binding protein (421) 175; (439) 101; (440) 116; (441) 71, 302
Calcium-binding site (434) 300
Calcium-dependent protein kinase (430) 381
Caldesmon (422) 235; (423) 93
Calmodulin (421) 203; (422) 235; (423) 93; (424) 33; (425) 166, 175; (431) 210; (439) 101; (441) 132
Calmodulin binding (423) 173
Calmodulin-dependent protein kinase II (427) 115
Calnexin (440) 89
Caloric restriction (434) 346
Calpain (422) 113; (431) 55; (433) 1; (440) 25
m-Calpain (436) 367
Calpain inhibitor (424) 136
Calpastatin (422) 113; (431) 55
Calponin (425) 123; (431) 134
Calponin homology domain (431) 134
Calsequestrin (429) 317
Calyculin A (440) 147
cAMP (431) 200; (432) 37, 88; (433) 326; (436) 92, 335; (439) 275
cAMP responsive element (440) 107
cAMP-dependent protein kinase (430) 312
cAMP-responsive element modulator (434) 33
Camptothecin (425) 337
Canalicular multispecific organic anion transporter (433) 149
Cancer (426) 283; (430) 64, 201; (431) 185; (434) 289
Candida albicans (435) 49
Cannabigerolic acid biosynthesis (427) 283
Cannabinoid (422) 69, 373; (429) 152; (433) 139; (436) 6
Cannabinoid receptor (425) 419; (436) 449
Cannabis (427) 283
Capacitation (427) 309
Capacitative Ca^{2+} entry (425) 317
Capacitative calcium entry (422) 354; (429) 61
Capillary zone electrophoresis (435) 245
Capsaicin (436) 449
Capsicum annuum (422) 23
Capsid (431) 301
Capsid assembly (431) 7, 301
Capsular polysaccharide (426) 191
Captopril (435) 219
Carbachol (422) 333
Carbohydrate structure (425) 286
Carbohydrate-recognition domain (429) 385
Carbon dioxide (429) 147
Carbon monoxide (430) 377
Carbon monoxide binding (429) 216
Carbon skeleton rearrangement (437) 309
Carbonic anhydrase (423) 218
Carbonic anhydrases I and II (430) 343
Carbonyl (422) 403
 γ -Carboxyglutamate (435) 257
 N^{ϵ} -(Carboxymethyl)lysine (CML) (425) 355
Carboxyl-terminal domain (421) 45
Carboxyl-terminal tail (428) 147
Carboxypeptidase E (436) 61
Carcinoembryonic antigen family (438) 37
Carcinogenesis (438) 206
Cardiac α -actin promoter (440) 370
Cardiac cell (439) 115; (440) 125
Cardiac hypertrophy (422) 193
Cardiac muscle (423) 173; (441) 83
Cardiac myocyte (422) 193
Cardiocyte (438) 285
Cardiolipin (421) 15; (424) 155
Cardiomyocyte (431) 189
Cardiotoxin (433) 119
Cardiovascular (430) 37
Carnitine palmitoyltransferase (429) 173
Carnitine palmitoyltransferase I (439) 317
 β -Carotene (426) 392; (436) 387
Carotenoid (423) 297; (424) 267
Carrier maturation (440) 99
Carrier protein (424) 173
Cartilage (428) 171
CAS (433) 185
Casein kinase II (428) 235; (435) 105; (441) 29
Casein kinase-II activator (428) 235
Casein kinase-II inhibitor (428) 235
Caspase (422) 151, 179; (424) 221; (425) 61, 266; (426) 151; (427) 144, 198, 247; (429) 351; (430) 59; (431) 167; (433) 51; (437) 5, 233; (438) 150; (439) 81, 168; (440) 13, 19; (441) 361
Caspase 7 (436) 51
Caspase activation (428) 71
Caspase inhibitor (425) 266
Caspase-3 (435) 233
CASTing (424) 177
CAT assay (425) 91
Catalase (428) 47; (431) 149
Catalase-peroxidase (422) 65; (426) 221
Catalytic α subunit (440) 320
Catalytic antibody (427) 74
Catalytic mechanism (424) 131; (437) 273
Catalytic property (428) 57
Catalytic site (434) 145; (441) 467
Catalytic site nucleotide binding (426) 37
Cataract (435) 131; (438) 25
Catechol oxidase (436) 293
 β -Catenin (433) 73
Catfish (437) 258
Catharanthine (428) 299
Cathepsin (422) 61; (435) 233
Cathepsin B (421) 80; (438) 150
Cathepsin L (421) 80
Cathepsin X (434) 135
Cation binding (424) 1
Cation channel (429) 61
Cation yeast (432) 59
Cationic cholesterol (421) 69
Cationic liposome (421) 69; (433) 169
Cattle (426) 357
Caudal-type homeobox protein (423) 218
Caveolae (434) 127; (439) 368
Caveolin (427) 279; (428) 205; (429) 330; (431) 125; (434) 127; (439) 368; (441) 34
CB1 receptor (429) 152
CC chemokine receptor 2 (430) 158
CCAAT (433) 174
CCAAT/enhancer-binding protein (426) 121; (439) 275
C-CAM (425) 141
104C1 cell (426) 221
CD2 (422) 259
CD26/dipeptidyl peptidase IV (431) 236

- CD28-CD80 costimulation (433) 161
 CD38 (428) 200; (431) 19; (433) 275; (439) 291
 CD38 oligomer (433) 275
 CD39 (430) 227
 CD4 receptor (431) 45
 CD4 T cell (433) 161
 CD4⁺ Th1 clone (436) 461
 CD40 ligand (433) 161
 CD43 (429) 89
 CD44 (439) 97; (440) 444
 CD8⁺ T lymphocyte (423) 138
 CD95 (431) 195; (432) 155
 CD95 (APO-1/Fas) ligand (429) 67
cdc2 promoter (422) 94
 Cdc42 (427) 353; (434) 431
 CD-GCAP (427) 69
 cdk (425) 465
 CDK inhibitor (422) 385
 cDNA (424) 143; (428) 229; (434) 382
 cDNA cloning (421) 224; (422) 279, 354; (424) 234; (432) 191; (434) 135, 394; (437) 287; (439) 334
 cDNA sequence (438) 131
 C2-domain (428) 80
 Cdx2 (423) 218
 C/EBP α (431) 227
 Ced-4 (428) 71
 α -CEHC (437) 145
 γ -CEHC (437) 145
 Cell (425) 371
 293 cell (434) 329
 Cell adhesion (424) 243; (425) 141; (438) 37
 Cell adhesion kinase β (432) 197
 Cell cycle (421) 55, 89; (422) 165; (425) 499; (427) 203; (432) 155; (436) 41, 169, 193, 349; (437) 61; (438) 183; (439) 297
 Cell death (430) 59; (441) 297
 Cell differentiation (427) 241; (441) 191
 Cell entry (441) 209
 Cell growth (425) 419
 Cell line (434) 108
 Cell membrane fusion (431) 395
 Cell migration (425) 145
 Cell proliferation (422) 118; (423) 98; (430) 241; (434) 241, 329, 409; (438) 101; (439) 143
 Cell receptor (430) 217
 Cell sensitivity (436) 218
 Cell signalling (427) 371
 Cell surface (427) 193
 Cell trafficking (427) 286
 Cell volume (435) 21
 Cell wall (430) 385
 Cell wall synthesis (433) 191
 Cell-cell adhesion molecule (425) 166
 Cell-free (426) 151
 Cell-free protein synthesis (440) 273
 Cell-matrix interaction (425) 426
 Cellobiohydrolase Cel7A (432) 113
 Cellular Ca²⁺ (422) 85
 Cellular differentiation (434) 140
 Cellular immunity (441) 353
 Cellular prion protein (426) 291
 Cellular redox state (440) 13
 Cellular senescence (427) 203
 Cellular transformation (429) 289
 Cellulase (422) 221; (429) 341
 Cellulolysis (422) 221
 Cellulose binding domain (423) 35; (429) 312
 Cellulosome (422) 221
 Cellulosome integrating protein (422) 221
 CENP-A (422) 5
 Central nervous system (431) 400
 Centrin (434) 387
 Centromere (422) 5; (431) 66
 Centrosome (431) 357
Centruroides noxius (429) 381
 Ceramide (422) 209, 255; (425) 61; (426) 102; (427) 139; (430) 338; (431) 185; (439) 81; (440) 163, 167
 c-erbB2 (425) 145
 Cerebellar granule cell (439) 93
 Cerebellum (439) 334
 Cerebrospinal fluid (425) 225, 345
 Cerebrospinal fluid-contacting neuron (424) 53, 69
 Ceruloplasmin (431) 473
 CF₁ ATPase (421) 65
c-fos (432) 88
 CFTR (431) 29, 97
 cGMP (431) 71; (433) 125
 cGMP phosphodiesterase (440) 454
 cGMP/protein kinase G (436) 466
 Channel (422) 333; (425) 259; (434) 160
 Channel blocker (427) 220
 Channel protein (429) 104
 Channel regulator (434) 28
 Channel vestibule (423) 205
 Chaperone (425) 382; (426) 107; (429) 27, 162; (430) 73; (438) 25; (439) 51
 Characterization (436) 202
 Charge movement (423) 213
 Charge mutant (441) 313
 Chemical labeling (432) 128
 Chemical modification (427) 362; (428) 68
 Chemical oxidation (432) 27
 Chemical probing (422) 265
 Chemiluminescence (425) 256; (430) 297, 348
 Chemokine (425) 105; (430) 158; (432) 73; (434) 226; (440) 282; (441) 209
 Chemokine cloning (440) 188
 Chemokine receptor (425) 490; (430) 37
 Chemokine receptor CCR5 (436) 233
 Chemokine SDF1 (426) 271
 Chemotaxis (424) 248
 Chemotaxis receptor (425) 377
 Chick embryo (436) 361
 Chick retina (430) 176
 Chicken (426) 337
 Chickpea (437) 177
 Chimera (433) 28; (441) 67
 Chinese hamster fibroblast (423) 86
 Chinese hamster ovary cell (427) 367; (428) 291
 Chitinase (434) 377
Chlamydomonas reinhardtii (421) 65; (426) 140; (431) 205; (434) 335
 Chloramine T (429) 239
 Chloride transport (433) 223; (438) 10
Chlorina (436) 339
 Chlorination (441) 476
 Chlorocatechol 1,2-dioxygenase (433) 58
 2-Chloro-1,4-dimethoxybenzene (439) 219
 Chlorogenic acid (422) 377; (426) 24
 3-Chloro-4-hydroxyphenylacetate reductive dehalogenase (436) 159
 7-Chloro-4-nitrobenz-2-oxa-1,3-diazole (432) 128
 Chlorophyll *a'* (426) 201
 Chloroplast (422) 47; (423) 66, 183; (424) 105; (428) 241; (429) 115; (430) 257; (432) 21; (434) 425; (441) 59
 Chloroplast transit peptide (431) 39
 Chloroquine (436) 439
 Chlororespiration (429) 115
 CHO cell (422) 339
 Cholecystokinin (436) 61
 Cholecystokinin exocytosis (425) 66
 Cholesterol (433) 44; (434) 421
 Cholesterol efflux (431) 327
 Cholesterol sulfate (421) 165
 Chondroitin sulfate (441) 235
 Chondrosarcoma (438) 85
 Chordate (437) 15
 Choriocarcinoma cell line (432) 123
 Choroidal melanoma cell (422) 385
 Chromaffin cell (422) 368
 Chromatin (421) 109; (423) 239; (431) 131; (436) 349; (440) 38; (441) 161, 165
 Chromatin assembly factor (440) 425
Chromatium minutissimum (422) 231
 Chromogranin A (427) 55
 Chromosomal localization (433) 257; (437) 216
 Chromosomal structure (432) 158
 Chromosome 10q23 (433) 63
 Chromosome 16 (431) 357

- Chromosome 7 (422) 27
 Chromosome partition (430) 278
 Chronic granulomatous disease (436) 390
 Chronic low-frequency stimulation (422) 381
 Chymotrypsin (422) 74
 Circadian rhythm (441) 427
 Circular dichroism (425) 415, 517; (430) 401; (431) 29, 111, 210; (439) 41
 Circular dichroism spectroscopy (421) 83; (440) 409
 Circular dichroism spectrum (421) 147
 Circular dumbbell RNA/DNA chimeric oligonucleotide (425) 91
cis Peptide (423) 291
9-cis Retinoic acid (441) 447
Cis/trans isomerization (432) 202
cis-acting element (423) 81; (428) 275
cis-acting factor (425) 157
¹³C isotopomer analysis (440) 382
 Cisplatin (434) 115; (437) 97
cis-Prenyltransferase (434) 406
cis-regulatory element (436) 163
 Cisterna maturation (440) 99
 c-Jun (429) 289
 c-Jun N-terminal kinase (427) 139; (429) 289; (440) 231
 CK2 mutant (441) 29
 CK2 regulation (441) 29
 Cl[−] channel (428) 177
 Cl[−] transport (427) 59
 Class I aldolase (441) 247
 Classical cadherin (438) 306
 Clathrin-coated vesicle (440) 258
 Claustrian (423) 254
 Cleavage furrow (441) 121
 Clofibrate (431) 468
 Clofibrilic acid (434) 101
 Cloning (426) 352, 357; (428) 105; (435) 49; (441) 43, 392
 Cloning, overexpression (431) 481
 Closing (434) 160
Clostridium difficile toxin B (440) 287
Clostridium thermocellum (422) 221
 Clostripain (441) 361
 ClpX (438) 250
 Cluster (440) 235
 (−)-2C-Methyl-D-erythritol (437) 278
 (−)-2C-Methyl-D-erythrono-1,4-lactone (437) 278
 c-Mpl (427) 46; (428) 250
 c-Myc (434) 209
 c-myc (421) 50
 c-myc tag (441) 407
 CO₂-concentrating mechanism (430) 236
 Coat protein (433) 307
 Coat protein UGA suppression (431) 7
 Cobalamin coenzyme (432) 173
 Cockroach neuronal membrane (439) 246
 Coeliac disease (427) 36; (439) 46
 Coenzyme A (438) 190
 Coenzyme F₄₂₀ (438) 124
 Coenzyme Q (425) 213; (426) 77
 Coenzyme Q₀ (428) 43
 Coiled-coil (435) 11
 Coiled-coil α -helix (436) 123; (438) 165
 Coiled-coil dimer (433) 241
 Co-immunoprecipitation (439) 224
COL4A3 (424) 11
COL4A4 (424) 11
 Colchicine biosynthesis (438) 111
Colchicum autumnale (438) 111
 Cold acclimation (429) 403; (439) 258
 Cold inactivation (433) 279
 Cold inducibility (423) 324
 Cold sensitive mutant (432) 1
 Colicin sensitivity (432) 117
 Collagen (423) 243; (434) 145; (436) 243
 Collagen degradation (428) 152
 Collagen peptide (436) 243
 Collagen XIV (438) 325
 Collagen XVI (436) 197
 Collagenase (439) 253
 Collagen-like (425) 367
 Collectin (425) 367; (437) 65
 Colloidal liquid aphron (CLA) (431) 343
 Colon carcinoma cell (434) 329
 Colon promoter (423) 218
 Colorado potato beetle (434) 401
 Colorectal mucosa (440) 307
 Combinatorial expression library (440) 135
 Combined pituitary hormone deficiency (437) 216
 Comparative genome analysis (426) 1
 Comparative modeling (441) 331
 Competitive determinant (422) 89
 Competitive inhibition (430) 261
 Competitive polymerase chain reaction (424) 6; (441) 292
 Competitive reverse transcription polymerase chain reaction (423) 133
trans-Complementation (437) 56
 Complementation group (431) 468
 Complete genome (430) 28
 Complex I (431) 34; (438) 301
 Complex III (431) 245
 Composition (428) 286
 Conantokin-G (435) 257
 Concanavalin A (429) 284
 Configuration (421) 80
 Confocal laser scanning microscopy (433) 169; (436) 179, 313; (440) 297
 Confocal microscopy (421) 159; (431) 39; (432) 82
 Conformation (436) 445; (440) 203
 Conformational analysis (439) 13
 Conformational change (424) 121, 131; (430) 317; (437) 251; (439) 21
 Conformational dynamics (434) 42
 Congenital hypothyroidism (429) 36
 Conjugated diene (435) 153
 Conjugated metabolite (426) 331; (430) 405
 Connectin (428) 111
 Connector (430) 283
 Connexin δ subgroup (428) 27
 μ -Conotoxin (440) 302
 Conserved sequence (438) 21
 Conserved structural motif (423) 105
 Constitutive endocytosis (441) 231
 Constitutive NO synthase (425) 243
 Constitutively active mutant V₂ receptor (441) 470
 Context effect (440) 351
 Contractile ring (441) 121
 Contraction (424) 79
 Contraction signalling (425) 472
 Control mechanism (430) 1
 Control region (426) 357
 Convertase (428) 37; (436) 361
 Converting enzyme (424) 183
 Cooperative coupling (439) 1
 Cooperativity (439) 101
 CopG (425) 161
 Copper (428) 281; (429) 216; (432) 13; (434) 317; (435) 178; (436) 223
 Copper amine oxidase (437) 177
 Copper chaperone (440) 141
 Copper transport (435) 178
 Copy number (422) 243
Corallina pilulifera (428) 105
 Coronary artery disease (433) 166
 Coronin (441) 251
 Corrinoid (425) 204
 Corrinoid protein (436) 159, 401
 Cortical granule (431) 415
 Corticobasal degeneration (433) 201
 Corticotropin releasing factor (435) 187
 Corticotropin-releasing hormone (427) 255
 COS cell (439) 121
 COS cell transfection (433) 201
 COS-7 cell (422) 69; (437) 44
 Coumarin (438) 201
 Counterflow (421) 41
 Counter-receptor binding (428) 127
 Coupling (431) 419
 Covalent flavoprotein (422) 65
 Covalent inhibitor (437) 122
 CpG island (435) 138
 CPPC motif (431) 381

- Clq (425) 367
 Cre recombinase (438) 76
 Creatine (439) 357
 Creatine kinase (426) 97; (427) 171; (439) 133
Crithidia fasciculata (423) 351
Crithidia oncopelti (431) 457
 CRM-197 (427) 362
 Crosslink (427) 381
 Cross-linking (427) 46, 85; (431) 322
 Crossover (430) 236
 Cross-talk (441) 441
 Crustacean hyperglycemic hormone gene (441) 397
 Cruzipain (429) 129
 Cryptdin (434) 272
 Crystal structure (422) 285; (424) 131; (429) 211; (439) 133
 Crystallin (435) 131; (441) 116
 α -Crystallin (430) 401
 β -Crystallin (438) 127
 Crystalline cellulose (429) 341
 Crystallization (425) 161; (430) 283
 Crystallography (430) 95
 Cse1p (433) 185
 C-terminal binding protein (429) 183
 C-terminal domain (429) 129
 C-terminal peptide (437) 44
 C-terminal processing (430) 261
 C-terminal residue (425) 407
 CT-rich region (438) 315
 Cu,Zn superoxide dismutase (439) 192
 CUC-1 (440) 141
 Cucumber (431) 433
 Cucumber mosaic virus (422) 89
 Cultured neuron (431) 215
 Cupin (437) 87
 Curcumin (433) 287
 Current (422) 333
 CX₃C chemokine receptor (429) 167
 CXCR4 chemokine receptor (426) 271
 CXCR-4 (426) 367; (432) 73
 Cyanide (422) 1
 Cyanobacterium (423) 178; (428) 161; (430) 236; (431) 138; (432) 207; (436) 189
 CYC2 (439) 307
 Cyclic adenosine diphosphate ribose (439) 291
 Cyclic adenosine monophosphate (425) 277; (426) 171
 Cyclic ADP-ribose (433) 275
 Cyclic AMP (434) 108; (436) 256; (439) 287
 Cyclic electron flow (429) 115
 Cyclic guanosine monophosphate (428) 97
 Cyclic guanosine-3',5'-monophosphate (424) 79, 248
 Cyclic guanosine-3',5'-monophosphate-dependent protein kinase (424) 79
 Cyclic lysophosphatidic acid (436) 256
 Cyclic nucleotide-gated channel (440) 199
 Cyclin (425) 465; (438) 183
 Cyclin G1 (430) 171
 Cyclin-dependent kinase (422) 385; (438) 183
 Cyclooxygenase (430) 154; (439) 253
 Cyclooxygenase-2 (437) 49; (439) 75
 Cyclophilin (422) 307; (431) 386
 Cyclosporin (431) 185
 Cyclosporin A (422) 307; (427) 179
 Cys-2 domain (423) 31
 Cystathionine β -synthase (431) 175
 Cystathionine β -synthase deficiency (431) 175
 Cystatin (422) 61
 Cysteine (426) 217; (435) 69
 Cysteine active site (439) 241
 Cysteine oxidation (440) 111
 Cysteine protease (429) 9; (433) 78; (434) 135; (438) 114
 Cysteine proteinase (421) 80; (422) 61; (429) 129; (434) 401; (437) 91
 Cysteine proteinase inhibitor (422) 61
 Cysteine reagent (426) 174
 Cysteine residue (426) 309
 Cysteine rich repeat (425) 281
 Cysteine string protein (436) 85; (437) 267
 Cysteine-rich domain (437) 19
 CysteinyI protease SPase (421) 89
 Cystic fibrosis (427) 103; (431) 29
 Cystic fibrosis transmembrane conductance regulator (423) 362; (437) 1; (439) 121
 Cystine (431) 116
 Cystine uptake (421) 19
 Cytochalasin D (430) 353
 Cytochrome (422) 231; (428) 295; (441) 266
 Cytochrome *b₅* (423) 275; (425) 509
 Cytochrome *b*-563 reduction (426) 126
 Cytochrome *ba* (432) 109
 Cytochrome *ba₃* (434) 17
 Cytochrome *bc₁* complex (431) 291, 423
 Cytochrome *bf* complex (426) 126
 Cytochrome *c* (423) 275; (425) 385; (426) 111, 151; (429) 351; (435) 269; (437) 5, 233; (439) 168, 307, 373; (440) 19
 Cytochrome *c* oxidase (421) 15; (422) 1, 33; (423) 329; (433) 93; (434) 17, 322; (435) 25; (439) 1
 Cytochrome oxidase (424) 155
 Cytochrome P-450 (425) 293; (431) 287, 343; (432) 182; (434) 101; (438) 201; (440) 343
 Cytochrome P450 gene regulation (431) 227
 Cytochromes *ba₃*, *caa₃*, *bo*, *bb*, *bd* (429) 216
 Cytohesin (433) 312
 Cytokine (427) 85; (429) 139; (433) 331; (435) 207
 Cytokine receptor (421) 32; (439) 71
 Cytokine signaling (441) 287
 Cytokine-inducible SH2 protein (441) 287
 Cytokinesis (441) 121
 Cytokinin (426) 29; (429) 259
 Cytokinin-binding protein (423) 239
 Cytolytic toxin (435) 173
 Cytomegalovirus (441) 209
 Cytoplasm (441) 97
 Cytoplasmic free Ca²⁺ concentration (439) 267
 Cytoplasmic male sterility (441) 159
 Cytoskeleton (428) 200; (430) 41, 88; (431) 19; (433) 51; (436) 179; (439) 317
 Cytosolic phospholipase A₂ (434) 437
 Cytotoxic protease (435) 79
 Cytotoxic T lymphocyte (441) 353
 Cytotoxicity (423) 138; (431) 245; (439) 321
- ## D
- D₁ (439) 138
 D1 (436) 434
 D1 protein (424) 267; (430) 261
 D1 reaction center protein (425) 97
 D1-D2-cytochrome *b₅₅₉* complex (431) 161; (434) 88
 D2 dopamine receptor (434) 108
 D₂O (421) 273
 D₃ (439) 138
 D4 dopamine receptor (434) 108
 D96N (427) 109
 Dactylisin (433) 68
 DAN (440) 25
 dATP (426) 151
 DDE motif (428) 217
 De novo mutation (423) 5
 De novo protein (425) 101
 DEAD box/RNA helicase (429) 279
 Death domain (424) 41; (431) 351; (441) 275
 Death effector domain (428) 71
 Death receptor (431) 351
 7-Deazaxanthine (438) 91
 Decay of the M intermediate (423) 343
 Decoy receptor (424) 41
 Deenergized mitochondrion (422) 36
 Deep brain photoreceptor (424) 53
 Defective virus (423) 25
 Defence gene (438) 245
 Defensin (424) 37; (431) 375

- Deglycosylation (431) 255
 Degradation (438) 183
 Dehydroepiandrosterone sulfate (424) 173
 D-specific Dehydrogenase (423) 105
 Dehydroluciferin (438) 190
 Deiodinase (438) 81
 Deleted variant of hepatocyte growth factor (434) 165
 Deletion mutation (422) 225
 Delipidation (433) 321
 Delta five (439) 215
 Deltorphan (429) 41
 Demecolcine (438) 111
 Dementia with Lewy bodies (436) 309
 Denaturation temperature (425) 57
 Denatured protein (441) 271
 Denatured state of protein interactions (426) 57
 Denaturing gradient gel electrophoresis (421) 105
 Dendritic cell (440) 188
 Denervation (421) 259; (439) 89
 Denitrification (441) 257
 Deoxy-D-*arabino*-heptulosonate 7-phosphate synthase (441) 195
 1-Deoxy-D-xylulose (434) 413; (437) 278
 Deoxyribonuclease II (440) 239
 Dephosphorylation (424) 225
 Depressant anti-insect toxin (422) 132
 Dermal fibroblast (436) 197
 Dermonecrosis (436) 202
 Desensitization (422) 141; (430) 37; (432) 73
Desulfotobacterium hafnense (436) 159
Desulfovibrio (429) 295
 Detergent (431) 161
 Detergent resistant complex (426) 386
 Detergent-resistant membrane domain (439) 93
 Development (425) 310; (436) 271; (441) 302, 392
 Developmental regulation (439) 173
 Dewar photoproduct (428) 269
 Dexamethasone (425) 266
 DFR1 (422) 146
 Diabetes (440) 55
 Diabetes insipidus (424) 57
 Diabetic neuropathy (436) 185
 Diabetic rat (440) 450
 Diabody (425) 479
 Diacylglycerol (427) 371
 1,2-Diacylglycerol (440) 167
 Diacylglycerol kinase (429) 109; (436) 377
 Diacylglycerol pyrophosphate (436) 377
 Diadenosine 5',5'''-P¹,P¹-tetrakisphosphate (Ap₂A) hydrolase (431) 481
 Diadenosine oligophosphate (427) 157
 Diadenosine pentaphosphate (423) 314
 Diadenosine polyphosphate (423) 314
 Diadenosine tetraphosphate (429) 143
 Diadenosine tetraphosphate (asymmetrical) hydrolase (429) 143
 Diadenosine triphosphate (429) 143
 Diadenosine triphosphate hydrolase (429) 143
 Diamine oxidase (435) 251
 Diaminofluorescein (427) 263
 Dibutyl-cAMP (428) 183
 Dicopper enzyme (436) 293
 Dicotyledon (423) 324
Dictyostelium (424) 248; (426) 145
Dictyostelium discoideum (441) 302
 Dicyclohexylcarbodiimide (421) 73; (432) 128
 Dietary antioxidant (426) 331
 Differential display (422) 15; (434) 66
 Differential display polymerase chain reaction (435) 21
 Differential gene expression (427) 91
 Differential scanning calorimetry (421) 273; (433) 241, 307; (438) 127
 Differentially induced gene (434) 387
 Differentiation (422) 15, 118; (426) 233; (438) 85
 Differentiation marker (430) 227
 Diffusion (426) 77
 Digitonin (432) 187
 Digitonin treatment (435) 233
 Digoxin (423) 159
 Dihydropyridine (423) 86; (427) 220
 Dihydropyridine receptor (423) 198; (434) 346
 Dihydroxypterocarpan 6a-hydroxylase (432) 182
 1,25-Dihydroxyvitamin D₃ (426) 225
 1 α ,25-Dihydroxyvitamin D₃ (436) 329
 Diisopropyl-Amiton (438) 195
 Dilysine motif (431) 468
 Dimer (425) 479; (427) 85
 Dimer assembly (426) 187
 Dimerization (421) 32; (423) 371; (427) 259; (430) 397; (431) 367
 Dimerization domain (432) 45
 4-*N,N*-Dimethylaminoazobenzene-4'-iodoacetamido-2'-sulfonic acid (427) 362
N,N-Dimethylsphingosine (425) 61
 Diminazene (433) 251
 Dinoseb modification (428) 188
 Dinuclear centre (432) 213
 Dinucleoside polyphosphate (433) 283
 Dinucleotide (424) 46
 Diol epoxide (438) 206
 Dioxygenase (434) 145
 Dipeptidyl peptidase IV (428) 100, 152
 Diphtheria toxin (433) 83
Dipodascopsis uninucleata (427) 345
 Dipolyunsaturated molecular species (437) 193
 Dipyrrolyl (425) 495
 Direct repeat (422) 265
 Directed evolution (427) 51
 Disassembly (425) 134
 Disease (430) 64
 Disintegrin metalloproteinase (435) 39
 Dissociation constant (421) 100; (425) 495; (430) 377
 Distamycin (439) 346
 Distamycin A binding (422) 265
 Distinction between closely related genes (441) 43
 Distribution (429) 109; (441) 392
 Disulfide (432) 117; (436) 353
 Disulfide bond (427) 357; (428) 255, 263; (430) 275; (439) 157
 Disulfide bridge (424) 109; (439) 41
 Disulfide reductase (422) 311
 Dithiothreitol (431) 473
 Dityrosine (439) 231
 DNA (421) 7
 DNA bending (440) 332
 DNA binding (423) 307; (424) 177; (425) 52; (430) 393; (431) 268
 DNA binding domain (430) 251
 DNA binding protein (421) 229; (430) 251
 DNA carrier (421) 7
 DNA complex (426) 325
 DNA curvature (431) 66
 DNA damage (425) 499; (426) 24; (428) 93; (429) 157; (432) 13; (439) 363
 DNA domain (432) 158
 DNA dosage (425) 436
 DNA dumbbell (431) 453
 DNA duplex (431) 453
 DNA enzyme (431) 395; (436) 233
 DNA fragmentation factor (422) 151
 DNA helicase (439) 59
 DNA ladder (437) 131
 DNA lesion (428) 93
 DNA methylation (421) 152; (426) 283; (430) 307; (432) 77
 DNA primase (439) 59
 DNA repair (422) 99; (423) 49; (425) 499; (427) 247; (431) 12; (437) 97; (439) 363; (440) 103
 DNA replication (439) 59
 DNA sequence analysis (430) 28
 DNA sequencing (441) 451
 DNA structure (427) 301
 DNA synthesis (430) 358
 DNA uptake stimulating protein (430) 241
 DNA-drug interaction (439) 346
 DNA-protein interaction (438) 66
 DNase (429) 134
 DNase I (425) 251
 dNTP utilization (439) 302
 Domain (440) 235
 Domain folding (438) 127
 Domain interaction (421) 45; (438) 127
 Domain motion (424) 121
 Domain shuffling (436) 323

Dominant clone (431) 448
 Dominant negative mutant (430) 201, 393
 Dominant negative phenotype (424) 100
 Donor side (424) 146; (425) 396
 Dopamine (434) 108
 Dopamine receptor (439) 138; (441) 383
 Dopamine transporter (423) 376
 Dose-response curve (438) 241
 Double patch-clamp (429) 197
 Double-metal-ion mechanism (431) 154
 Double-stranded RNA (431) 443; (436) 343
 Double-stranded RNA-binding domain (434) 121
 Down-modulation (422) 129
 Doxorubicin (427) 236, 241
 Dp71 (441) 337
 2D PAGE (429) 359
 DPPC (438) 15
drgA gene (428) 188
 Driving force (434) 57
Drosophila (425) 317; (433) 205; (437) 75, 81; (440) 85
Drosophila melanogaster (424) 149; (427) 119; (429) 337; (430) 327; (436) 476; (438) 131
 Drought stress (428) 47
 Drug delivery (421) 61
 Drug delivery system (433) 37
 Drug metabolism (438) 145
 Drug resistance (425) 117, 151; (439) 368
 Drug target (422) 311; (432) 103
 Drug targeting (429) 269
 Drug toxicity (427) 236, 241
 Dsb protein (428) 255
 3D structure (426) 205
 DT-diaphorase (427) 325; (436) 144
 d(TTTTAAAA) sequence (439) 346
 Dual receptor antagonist (423) 15
 Dual specificity phosphatase (425) 271
 Duchenne (431) 125
 Duchenne muscular dystrophy (425) 329; (439) 357; (441) 337
 dUTP pyrophosphatase (421) 83
 dUTPase (441) 327
 Dye (428) 141
 Dye exclusion (421) 7
 Dynamic light scattering variation (426) 314
 Dynamin (431) 231
 Dystrobrevin (425) 7; (432) 133
 Dystrobrevin B (425) 7
 Dystrophin (422) 27; (423) 173; (425) 329; (441) 337
 Dystrophin associated protein (425) 7
 Dystrophin-glycoprotein complex (427) 279

E

E12 (438) 85
 E75 (436) 395
 E5531 (438) 15
 E₂ATP site labeling (441) 103
 E204Q mutant (434) 197
 Early embryonic development (441) 261
 Earthworm (431) 437
 EAST (432) 225; (436) 419
 4E-BP1 (435) 105
 E-cadherin (438) 306
 Ecdysone inducible gene (436) 395
 Echinomycin (426) 325
 Echistatin (429) 239
*Eco*18kI DNA methyltransferase (433) 233
*Eco*18kI restriction endonuclease (433) 233
*Eco*RII endonuclease (425) 29
 Ecto-ATPase (423) 243; (430) 227
 Ecto-enzyme (433) 275
 ECV304 (441) 111
 EDTA (421) 77
 eEF1B γ (434) 382
 EF-hand (436) 367; (441) 302
 EF-hand pair (439) 101
 EF-hand protein (422) 235
 EGF receptor (422) 259; (431) 347
 EGF-like module (421) 100
 EGF-like repeat (435) 143
 EGFR (436) 419
 Egg (437) 297
 Egg activation (424) 113; (431) 415
 Eicosanoid (428) 32; (433) 68
 eIF-4G cleavage (435) 79
 Elastase (422) 74
 Elasticity (430) 12
 Elderberry (428) 75
 Electric potential (434) 57
 Electric pulse (425) 436
 Electrical measurement (427) 109
 Electrogenesis (431) 291
 Electrogenicity (431) 219
 Electron cryo-microscopy (425) 505
 Electron cryomicroscopy (430) 95
 Electron energy loss spectroscopy (429) 89
 Electron microdiffraction (432) 113
 Electron microscopy (424) 95; (425) 415; (426) 165
 Electron paramagnetic resonance (422) 377; (429) 295; (431) 285; (432) 55, 99; (434) 201; (438) 231
 Electron spin resonance (438) 161
 Electron transfer (431) 291; (434) 322; (436) 144
 Electron transport (428) 295
 Electrophysiology (426) 174; (437) 1
 Electroporation (425) 436; (435) 1
 Electrostatic field (427) 267
 Elicitation (431) 287
 ELISA (439) 46
 Elk-1 (432) 88
 Elongation (440) 264
 Elongation factor (429) 417; (430) 95
 Elongation factor 1A (431) 448
 Elongation factor 1 γ (434) 382
 Elongation factor 2 (439) 281
 Elongation factor G function (434) 205
 Elongation factor Ts (422) 189
 Elongation factor Tu (422) 189
 Elongation factor Tu-elongation factor Ts interaction (422) 189
 Elongation factor Tu histidine 118 (422) 189
 Embryo sexing (430) 83
 Embryogenesis (422) 400; (438) 76
 Embryonic chick heart (435) 1
 Embryonic development (429) 109
 Embryonic kidney (423) 362
 Embryonic stem cell (425) 499
 Enantioselectivity (424) 49
 Encephalomyocarditis virus (422) 57
 Endo- β -1,4-glucanase (422) 23
 Endocannabinoid (436) 449
 Endocytosis (421) 69; (427) 164; (432) 225; (434) 37; (440) 255, 258; (441) 34, 343, 373
 Endoglucanase E (422) 221
 Endometrial adenocarcinoma (425) 426
 Endomorphin (439) 152
 Endopeptidase (428) 152
 Endoplasmic reticulum (423) 61; (430) 17, 293; (431) 263; (432) 191; (433) 33; (434) 155; (435) 183; (436) 247; (437) 44
 Endoplasmic reticulum and retention (434) 377
 Endosome (431) 200; (440) 258; (441) 34
 Endosome fusion (441) 373
 Endosymbiotic (423) 66
 Endothelial (426) 397
 Endothelial cell (424) 183, 197, 211; (425) 441; (427) 263; (431) 315; (433) 125; (436) 466
 Endothelial constitutive nitric oxide synthase (433) 166
 Endothelin (422) 85; (423) 15; (424) 183, 193; (425) 234
 Endothelin-1 (422) 123
 Endothelin-3 (428) 304
 Endothelin-converting enzyme (428) 304
 Endotoxin (427) 275; (430) 363; (438) 159
 Endotoxin shock (431) 107

Energy conservation (428) 295
 Energy of lowest unoccupied molecular orbital (427) 325
 Enhancer-binding protein (433) 108; (437) 70
 [D-pen²,D-pen⁶]-Enkephalin (425) 453
Entamoeba histolytica (437) 153
 Enteroendocrine cell (425) 66
env gene (430) 333
 Enveloped virus (423) 286
 Enzymatic activity (431) 391; (438) 267
 Enzymatic biotinylation (440) 213
 Enzymatic cleavage (421) 268
 Enzymatic glycosylation (440) 208
 Enzymatic oxidation (438) 195
 Enzymatic reduction (433) 196
 Enzyme (439) 133
 Enzyme activation (426) 196; (437) 229; (440) 64
 Enzyme activity (437) 273
 Enzyme evolution (421) 147
 Enzyme kinetics (427) 188; (436) 67
 Enzyme mechanism (424) 49; (432) 202
 Enzyme nomenclature (425) 352
 Enzyme purification (428) 304
 Enzyme structure (431) 309
 Enzyme translocation (432) 145
 Enzyme-promoter interaction (440) 264
 Eosinophil (434) 226, 251; (436) 390
 Eotaxin (434) 226
 Epidermal growth factor (435) 119; (436) 123; (438) 165; (441) 34
 Epidermal growth factor receptor (425) 145; (431) 268; (432) 225
 Epidermal growth factor receptor signalling (429) 337
 Epidermal injury (437) 258
 Epigallocatechin (439) 253
 Epilepsy (430) 100; (432) 103
 Epinephrine (421) 191
 Epithelial (426) 397
 Epitope (433) 103
 Epitope characterization (426) 67
 Epitope mapping (432) 94; (441) 225
 Epoxide (430) 181
 Epoxysuccinyl peptide (421) 80
 E-protein (440) 332
 Epstein-Barr virus (439) 297
 Epstein-Barr virus vector (441) 39
 ErbB receptor (431) 102
 ERp29 (431) 322
Erwinia amylovora (428) 224
 Erythrocyte (440) 64
 Erythroid specific expression (438) 315
 Erythropoietin (427) 164; (440) 343
 Erythropoietin receptor (427) 164
 Erythrose 4-phosphate (441) 195
 Erythrosin 5'-isothiocyanate (441) 103
Escherichia coli (421) 23, 37, 83, 237; (422) 189, 218; (423) 159; (425) 377; (432) 117, 179; (434) 28, 149, 160; (439) 51, 271; (440) 273; (441) 53, 242
Escherichia coli *trp* repressor (422) 52
 Esterase activity (421) 147
 Estradiol (422) 349
 Estramustine-binding protein (432) 163
 Estrogen (423) 129; (440) 403; (441) 220
 Estrogen receptor (422) 349; (423) 129
 Ethacrynic acid (441) 153
 Etheno-adenosine triphosphate (426) 297
 Ethoxyresorufin-*O*-deethylase (422) 185
N-Ethylmaleimide (426) 309
N-Ethylmaleimide-sensitive factor (435) 211, 237; (436) 1; (437) 255
N-Ethylmaleimide-sensitive fusion protein (423) 113
O-Ethyl *S*-[*N,N*-diisopropylaminoethyl]methylphosphonothiolate (438) 195
Euglena gracilis (433) 153
 Eukaryote (433) 143
 Eukaryotic elongation factor 1A (440) 387
 Eukaryotic initiation factor (421) 125
 Eukaryotic initiation factor 5A (437) 34
 Eukaryotic mRNA (440) 351
 Eukaryotic release factor 3 (440) 387
 EVH1 domain (441) 181

Evolution (421) 23; (423) 193; (424) 285; (425) 75, 79; (427) 144, 183; (428) 1; (434) 149; (436) 323; (438) 5; (439) 66, 185
 Evolutionary divergence (434) 300
 Evolutionary engineering (427) 51
 EXAFS (436) 293
 Excitation pressure (430) 288
 Excitation-contraction coupling (429) 317; (434) 346
 Excitatory anti-insect toxin (422) 132
 Excitotoxicity (430) 176
 Exocytosis (424) 202; (429) 78; (435) 84; (437) 267; (439) 267
 Exogenous NADH (435) 269
 Exon shuffling (430) 150
 Exonuclease resistance (425) 91
 Exopeptidase (432) 73
 Exopolyphosphatase (429) 194; (439) 263
 Experimental atherosclerosis (430) 307
 Experimentally induced allergic encephalomyelitis (439) 203
 Explosive (436) 144
 Expressed sequence tag (434) 300; (436) 283
 Expressed sequence tags database (434) 135
 Expression (421) 37; (422) 279; (426) 221; (434) 28, 108; (435) 49
 Extended packaging sequence (434) 367
 Extended X-ray absorption fine structure (433) 58
 Extracellular matrix (425) 426; (435) 29; (436) 123; (438) 165, 325
 Extracellular matrix metalloproteinase inducer (441) 88
 Extracellular proton (440) 199
 Extracellular receptor phosphorylation (439) 107
 Extracellular signal-regulated kinase (425) 271; (437) 158
 Extracellular-superoxide dismutase (433) 166
 Extrachromosomal DNA (432) 158
 Extrinsic protein (426) 347
 Eye lens (435) 131

F

*F*₄₂₀-dependent NADP reductase (438) 124
 Fa32 cell (422) 185
 Fab (429) 157
 FA-C protein (440) 103
 Facilitation (423) 213
 F-actin ring (422) 255
 Factor V (433) 28
 Factor XIII activation (423) 291
 FADD (428) 71
 200-Family proteins (438) 21
 F₁ Adenosine triphosphatase, cross-linking (426) 37
 Fanconi anemia (422) 99; (440) 103
 Farber disease (426) 102
 Farnesylcysteine (426) 319
 Fas (425) 209; (431) 195; (435) 207; (436) 461
fat mouse (436) 61
 F₁-ATPase (427) 64; (432) 128
 F-ATPase (440) 258
 Fatty acid (423) 71, 339; (431) 476; (435) 215; (438) 10; (439) 258; (441) 49
 Fatty acid desaturase (439) 215
 Fatty acid synthase (433) 132
 Fatty acid synthetase (435) 204
 Fatty acid transport (433) 179
 Fatty acylethanolamide (422) 373
 Fatty-acid complex (438) 272
 FcεRI (434) 431
 Fe65 (434) 1
 Feeding (438) 71
 Feline leukemia virus (425) 415
 FER locus (434) 339
 Ferredoxin (440) 311
 Ferric hemoglobin (424) 275
 Ferritin (432) 213; (436) 476
 Fertilization (422) 296; (425) 191; (431) 415
 [2Fe-2S] cluster (431) 423
 Fetus (425) 185; (439) 163

F_0F_1 (431) 419
 F_1F_0 ATP synthase (429) 201
 Fhit (427) 157
FHIT gene (433) 283
 Fibrinogen (433) 44
 Fibrinogen-like domain (425) 367
 Fibroblast (434) 283; (435) 29; (436) 329; (440) 399
 Fibroblast growth factor, acidic (421) 77
 Fibroblast growth factor-2 (436) 17
 Fibronectin (423) 243; (440) 277
 Fibronectin EDA exon (437) 137
 Fibronectin type III (441) 331
 Fibronectin type III repeat (438) 325
 Ficolin (425) 367
 Filament assembly (436) 309
 Filamentous bacteriophage (436) 263
 Fish (429) 407; (438) 119
 Fisher discriminant algorithm (440) 153
 Five-lipoxygenase-activating protein (437) 49
 Fjord region (438) 206
 FK506 (430) 414; (441) 111
 Flagellum (434) 325
 Flash photolysis (430) 377
 Flavin (438) 161
 Flavin adenine dinucleotide (428) 245
 Flavin adenine dinucleotide binding (436) 119
 Flavin alkylation (437) 122
 Flavin mononucleotide (428) 245
 Flavin oxidase (426) 62
 Flavocytochrome b_{5-58} (424) 188
 Flavoenzyme (422) 19, 311
 Flavohemoprotein (437) 117
 Flavone (437) 61
 Flavonoid (422) 385; (426) 331; (430) 405; (436) 71; (440) 8
 Flavonoid biosynthesis (431) 287
 Flavonol (436) 71
 Flexible C-terminal arm (421) 83
 FLICE (428) 71
 Flip-flop mechanism (440) 81
 Flow cytometry (422) 368; (423) 19; (425) 171
 Fluorescein isothiocyanate (440) 223
 Fluorescence (421) 7; (427) 263; (431) 476; (437) 251; (439) 127
 Fluorescence dequenching (423) 286
 Fluorescence polarization (430) 266
 Fluorescence quenching (426) 77; (432) 27
 Fluorescence recovery after photobleaching (430) 88
 Fluorescence resonance energy transfer (430) 401; (433) 169
 Fluorescence rise (429) 49
 Fluorescence spectroscopy (425) 460
 Fluorescence-labeled DNA (425) 14
 Fluorescent ganglioside (428) 115
 Fluoroquinolone (425) 151
 FNIII module (438) 325
 Focal adhesion (436) 419
 Focal adhesion kinase (432) 197
 Foldase (425) 382
 Folding (425) 517; (430) 385; (432) 228
 Follicle-stimulating hormone (422) 274
 Follicle-stimulating hormone receptor (422) 274
 Food intake (434) 277
 Fostricin (431) 357
 Four-helix bundle (434) 265
 Fourier transform (425) 396
 Fourier transform infrared (426) 347; (429) 78
 Fourier transform infrared spectroscopy (423) 205; (425) 341; (437) 187; (438) 231
 Fractalkine (429) 167; (439) 203; (441) 209
 Frameshift (421) 237
 Free radical (424) 239; (425) 213; (430) 297, 348; (431) 285; (434) 201
 Freeze-fracture electron microscopy (426) 314
 Freezing tolerance (423) 324
 Frog melanophore (428) 59
 Frontotemporal dementia (437) 207
 Fructan (440) 356
 Fructan fructan 1-fructosyltransferase (427) 25
 Fructan pattern (427) 25
 Fructation (441) 116
 Fructose-1,6-bisphosphatase (424) 109

Fructose-1,6-diphosphate (431) 59
 FtsZ (430) 278
 L-Fucose (429) 274
 Fuel utilization (424) 79
 Full relaxation matrix refinement (428) 269
 Fumonisin B₁ (440) 147
 Function prediction (426) 7
 Functional genomics (430) 55
 Functional study (429) 173
 Fungus (427) 79
 Funnel-web spider toxin (439) 246
 Fura-2 (422) 85; (430) 209; (434) 47
 Fura2-dextran (436) 271
 Furin (421) 285; (424) 262; (426) 41; (438) 306
Fusarium graminearum (435) 163
 Fusion (426) 352
 Fusion peptide (425) 415
 Fusion protein (421) 131; (431) 343
 Fusion subunit (427) 64

G

GA repeat (427) 301
 $G\alpha_{12}$ (429) 370
 $G\alpha_2$ (436) 271
 Gaa1 (421) 252
 GABA (430) 100
 GABA_B receptor (432) 103
 Gabapentin (426) 196
 gadd7 (422) 79
 Gadolinium chloride (426) 263
 Gag (431) 301
 Gain-of-function protein engineering (427) 296
 Galactose metabolism (431) 391
 Galactose-binding leguminous lectin (425) 286
 Galactosemia (431) 391
 α -Galactosidase (421) 169
 β -Galactosidase (434) 23; (438) 267
 Galactosyltransferase (440) 307
 Galanin (434) 277
 Galanin receptor (434) 277
 Gal β 1 $\rightarrow$ 3GalNAc cluster (427) 134
 Galectin (421) 152
 Gamma catenin (433) 51
 Gamma irradiation (439) 297
 Gamma radiolysis (430) 297
 GAP (426) 205
 Gárdos effect (433) 157
 Gas chromatography/mass spectrometry (422) 373
 Gastric H⁺, K⁺-ATPase (437) 187
 Gastric mucosal injury (425) 243
 Gastrocnemius muscle (440) 450
 Gastrointestinal tract (435) 119
 GATA consensus site (436) 390
 GATA motif (428) 275
 GATA-3 (436) 390
 Gating (430) 370
 Gating kinetics (431) 97
 Gating thermodynamics (431) 97
 G β (436) 271
 GB virus C (423) 143
 GD1 α -replica peptide (441) 20
 Gd³⁺ (441) 111
 GDP dissociation stimulator (441) 413
 GDP-D-mannose-4,6-dehydratase (429) 274
 Gelatin zymography (428) 152
 Gelatinase (427) 275
 Gelatinase A (421) 159
 Gelatinolytic integral membrane serine protease (428) 152
 Gelonin (431) 259
 Gene (430) 55, 327; (432) 65
 Gene activation (430) 171

- Gene cluster (441) 397
 Gene disruption (425) 117
 Gene diversity (436) 323
 Gene duplication (436) 323; (439) 66
 Gene expression (423) 117; (424) 173; (426) 260; (427) 349; (428) 80; (429) 17, 259, 330, 390; (435) 21; (436) 415; (439) 351; (440) 332, 450; (441) 191, 441
 Gene expression regulation (425) 490
 Gene fusion (423) 35
 Gene regulation (427) 15; (431) 268; (436) 17
 Gene structure (433) 119; (441) 235
 Gene targeting (425) 191
 Gene therapy (425) 329; (441) 39
 Gene transfection (421) 69; (429) 279; (433) 169
 Gene transfer (429) 269; (433) 37; (435) 1
 Genetic (430) 41
 Genistein (422) 85; (424) 113
 Genistein 7-glucoside (436) 71
 Genome (426) 86; (434) 219; (441) 77
 Genome analysis (422) 354; (430) 116
 Genome organization (422) 279
 Genomic database (430) 28
 Genomic imprinting (437) 107
 Genomic localization (439) 334
 Genomic organization (429) 330
 Genotype (437) 201; (438) 201
Geodia cydonium lectin I (427) 134
 Geranylgeranylation (424) 159
 Geranylpyrophosphate:olivetolate geranyltransferase (427) 283
 Germ cell (424) 216; (438) 76
 Germ cell nuclear factor (424) 73; (439) 208
 Germin (437) 87
 GFP (431) 39
 GH3 cell line (440) 302
 GHF-1 (422) 103
 GHF-2 (422) 103
 Gibberellin (423) 81
 Gingipain (441) 361
 Gingipain-R (435) 45
gip2 (440) 231
 GIRK (439) 115
 Gliadin (433) 103
 Glial cell (427) 41
 Glibenclamide (440) 125
 Glioma (440) 419
 Glioma cell (436) 6
glnB gene product (427) 291
 Globularity (430) 275
 GLP-1 receptor promoter (436) 163
 Glucagon (425) 24
 Glucagon receptor (421) 136
 Glucagon-like peptide-1 (425) 277
 β -Glucanase (440) 208
 β -1,3-Glucanase (433) 41
 (1 $\rightarrow$ 3)- β -Glucan synthase (433) 191
 Glucation (441) 116
 Glucocorticoid (430) 130; (431) 23; (435) 25; (441) 25, 441
 Glucose (421) 115, 136; (423) 81; (431) 180, 362; (441) 343
 Glucose 6-phosphatase (433) 33
 Glucose 6-phosphate dehydrogenase (437) 313
 Glucose metabolism (436) 185
 Glucose repression (434) 71
 Glucose transport (425) 298; (427) 193; (436) 301
 Glucose transport protein (436) 301
 Glucose transporter (421) 120; (425) 179
 Glucose-6-phosphate translocase (433) 33
 Glucose-6-phosphate transport (436) 247
 β -Glucosidase (421) 243; (436) 71
 α -Glucosidase inhibitor (430) 17
 Glucosyltransferase (437) 319
 Glucuronidation (438) 220
 GluR5 (430) 100
 GluR6 (430) 100
 GLUT-1 (421) 2
 GLUT4 (425) 472
 Glutamate (422) 339; (425) 453; (430) 100; (431) 215; (434) 188
 Glutamate dehydrogenase isoprotein (426) 196
 Glutamate residue (440) 199
 Glutamate transporter (422) 339
 Glutamic acid (434) 149
 Glutamine (433) 15; (434) 149
 Glutamine amidotransferase/cyclase (428) 229
 Glutaminyl-tRNA synthetase (434) 149
 γ -Glutamylcysteine synthetase (427) 129
 γ -Glutamyltranspeptidase (434) 51
 Glutathione (421) 19; (422) 285; (424) 257; (427) 15, 129; (430) 293; (434) 97; (437) 167
 Glutathione conjugation (438) 206
 Glutathione peroxidase (431) 149
 Glutathione S-transferase (422) 285, 296; (436) 424; (441) 153
 Glutathione transferase (422) 185; (423) 122
 Glutathione-linked peroxidase (437) 293
 Gluten (434) 215
 Gluten analysis (439) 46
 Gluten-free food (439) 46
 Glutenin (434) 215
 Gly/Ala-rich peptide (440) 365
 N-Glycan (426) 367
 O-Glycan (440) 315
 Glycan engineering (441) 177
 Glycation (421) 180; (425) 355; (441) 116
 Glyceollin biosynthesis (432) 182
 Glyceraldehyde 3-phosphate dehydrogenase (424) 131; (426) 107; (439) 241
 Glycerol (431) 448
 β -Glycerophosphate (433) 19
 Glycine (421) 77; (427) 74
Glycine max L. cell culture (432) 182
 Glycine oxidase (438) 263
 Glycine transporter (439) 334
 Glycocalyx (429) 89
 Glycodendrimer (426) 243
 Glycoform (429) 284
 Glycogen phosphorylase (434) 245
 Glycogen storage disease (433) 33
 Glycogen storage disease type 1b (436) 247
 Glycogen synthase kinase-3 (421) 125; (436) 28
 Glycogen synthase kinase 3 β (433) 73
 Glycogenolysis (438) 145
 Glycolysis (431) 59; (434) 42; (438) 145
 Glycoprotein hormone receptor (436) 427
 Glycoprotein stability (421) 234
 Glycoprotein unfolding (421) 234
 Glycosaminoglycan (441) 235
 Glycosyl fluoride (440) 208
 Glycosyl hydrolase (425) 352
 Glycosyl phosphatidyl inositol protein (422) 301
 Glycosyl phosphatidylinositol anchor (424) 243
 Glycosylation (424) 149; (425) 19; (426) 212; (428) 127; (429) 284; (436) 11; (441) 281
 Glycosylphosphatidylinositol (421) 252; (432) 150
 Glycosyltransferase (436) 228
 Glycosynthase (440) 208
 N-Glycosylation (440) 89
 Glycoxylation (425) 355; (437) 24
 Glycyl endopeptidase proregion (434) 401
Glycyrrhiza echinata (431) 287
 Glyoxal (427) 381
 Glyoxylate cycle (434) 13; (440) 55
 Glyoxylate dehydrogenase (cytochrome) (437) 117
 Glyoxylate metabolism (437) 117
 G_s-M transition (426) 29
 GM1 ganglioside (439) 93
 Gm₃ (436) 128
 G motif (428) 275
 GnRH/LHRH isoform (435) 199
 GnRH-II in human and rodents (435) 199
 Golgi (435) 263
 Golgi apparatus (431) 91, 200; (435) 237
 Golgi transport (435) 89
 Golgi-plasmalemma transport (440) 99
 Gos1p (435) 89
 gp120 (431) 85; (436) 461
 gp91^{phox} (436) 390
 G6PD deficiency (436) 411
 G6PD deficiency (Mediterranean variant) (424) 257

- GPI anchor (421) 252
 G-protein (422) 343; (424) 202; (426) 377; (427) 96; (428) 17, 291; (429) 370; (431) 231; (435) 115; (436) 25946, 104; (438) 285; (439) 115; (440) 231; (441) 6, 67, 437
 G-protein activated Kir (436) 104
 G-protein coupled receptor (422) 85; (424) 57, 193; (436) 304, 353; (438) 71
 G-protein-coupled receptor kinase (GRK) (424) 159; (430) 37
 G protein γ subunit (428) 85
 G subunit (439) 224
 Gq-type G-protein (439) 110
 G-quartet (435) 74
 Gramicidin (429) 197
 Gramicidin channel (440) 235
 Gram-positive bacterium (425) 40; (439) 192
 Granulocyte (426) 233; (436) 411
 Granulocyte-macrophage colony-stimulating factor (440) 119
 Granulosa cell (422) 274
 Granzyme B (440) 361
 Graves' disease (436) 427
 Gravitational biology (436) 115
 Greek key (431) 319
 Green bacterium (438) 5
 Green fluorescent protein (425) 436; (430) 83; (435) 1; (439) 121; (441) 307
 Green fluorescent protein fusion (441) 170
 Green photosynthetic bacteria (430) 323
 Greening (426) 201
 Growth arrest (430) 353
 Growth factor (423) 334; (430) 358; (435) 207; (439) 351; (440) 111
 Growth hormone (421) 191
 Growth hormone gene (422) 103
 Growth induction (436) 349
 Growth inhibition (429) 279; (434) 329; (437) 61
 Growth phase (421) 237
 Growth regulation (436) 139
 Grp94 (437) 211
 GS-X pump (433) 149
 GTP binding protein (433) 326
 GTP cyclohydrolase I (428) 212
 GTP hydrolysis (433) 326
 GTPase-activating protein (422) 359
 GTP-binding protein (422) 359; (429) 359
 Guanidine hydrochloride (427) 337
 Guanine (435) 74
 Guanine nucleotide (430) 176
 Guanine nucleotide exchange factor (440) 291
 Guanosine diphosphate dissociation inhibitor (422) 269
 Guanosine monophosphate (430) 176
 Guanosine triphosphate (424) 202
 Guanylate cyclase (427) 69
 Guanylin (421) 27
 Guinea pig cell (429) 279
 Gulonolactone oxidase (430) 293
- Harpin (428) 224
 H⁺-ATPase (435) 241; (437) 251
 hba1 (427) 330
HBS1 gene (440) 387
 HCA (426) 205
 HCO₃⁻ uptake (430) 236
 Head Involution Defective (HID) (440) 243
 Heart (422) 193; (423) 314; (426) 93; (429) 365; (434) 305; (438) 285
 Heart failure (431) 189
 Heart fatty acid-binding protein (437) 183
 Heart fatty acid-binding protein mutant (437) 183
 Heart mitochondria (436) 81
 Heart muscle mitochondrion (435) 215
 Heat injury (431) 285
 Heat sensitive mutant (432) 1
 Heat shock (436) 318
 Heat shock factor 1 (436) 318
 Heat shock protein (429) 327; (433) 294; (435) 183; (441) 215
 Heat stress (429) 115; (430) 246
 Heat-induced gel (427) 252
 Heavy metal ion (436) 223
 Heavy metal pollution (431) 437
 HEC1B cell (425) 426
 Helical bundle α -helix (427) 267
 Helical hairpin (431) 29
 α -Helical peptide (430) 301
 Helicase (435) 21
Helicobacter pylori (423) 249; (426) 1; (431) 347
 Helix geometry (429) 21
 α -Helix design (429) 99
 α -Helix stability (429) 99
 Helix-coil transition (433) 153
 Helix-loop-helix (436) 169
 β -Hematin (433) 215
 Hematopoietic cell (422) 269; (425) 419; (438) 114
 Hematopoietic progenitor cell (441) 39
 Heme (424) 169; (439) 163; (441) 476
 Heme oxygenase (439) 163
 Heme promiscuity (432) 109
 Heme transfer (424) 275
 Heme-copper binuclear center (429) 216
 Heme-copper terminal oxidase (432) 109
 Hemofiltrate (441) 281
 Hemoglobin (424) 169; (434) 309; (439) 85; (441) 93
 Hemoglobin fragment (428) 286
 Hemolysis (427) 21
 Hemoprotein (430) 377
 Hemorphin (428) 286
 Hemostasis (433) 28
 Hemooxygenase (439) 253
 Hepadnavirus (431) 301
 Heparin (423) 98, 227; (428) 13
 Heparin binding (425) 281; (430) 217
 Heparin-binding epidermal growth factor-like growth factor (425) 441
 Heparin-binding protein (431) 273
 Hepatic lectin (434) 37
 Hepatic nerve (436) 185
 Hepatic stellate cell (434) 245
 Hepatitis A virus (438) 106
 Hepatitis A virus RNA (434) 8
 Hepatitis B virus (431) 301; (441) 407
 Hepatitis B virus preS1 (431) 7
 Hepatitis C virus (421) 217; (438) 258
 Hepatitis delta virus ribozyme (439) 312
 Hepatitis G virus (423) 143
 Hepatocyte (422) 346; (423) 125; (430) 409; (434) 245; (439) 317; (440) 8
 Hepatocyte growth factor (429) 1; (434) 165; (436) 111
 Hepatocyte growth factor activator (436) 111
 Hepatocyte growth factor activator inhibitor (436) 111
 Hepatocyte growth factor/scatter factor (430) 126
 Hepatocyte primary culture (438) 145
 Hepatoma (439) 55
 Hepatoma cell (423) 45; (433) 15
 HepG2 cell (431) 227; (440) 343
 2-heptyl-4-hydroxyquinoline N-oxide (431) 245
 HER2-neu (431) 102
 Herbicide (424) 267
- H**
- H-89 (428) 183
 HaCaT cell (425) 199
 Hairpin (427) 301
 Hairpin 17 (429) 4
 Hairpin loop (429) 211
 Half-of-the-sites mechanism (441) 247
 Half-of-the-sites reactivity (440) 81
Halobacterium salinarum (427) 59; (434) 197, 335
Haloferax volcanii (434) 13
 Halorhodopsin (427) 59
 Hammerhead ribozyme (431) 154; (436) 41
 Hamster cell (422) 79
 HAP1 (426) 229
 Haploid-invasive growth (429) 83
 Haptoglobin (439) 275

- HERG channel (440) 125
 Herpes simplex virus (441) 327
 Herpesvirus-8 (441) 77
 HERV-K (421) 229
 3-HETE (427) 345
 Heterochromatic repeat (425) 513
 Heterodimer (423) 129
 Heterodimer formation (430) 393; (440) 414
 Heteroduplex (429) 307
 Heterogeneity (423) 343
 Heterogeneous nuclear ribonucleoprotein L (425) 401
 Heterologous expression (422) 23; (431) 287; (432) 109; (433) 223; (434) 377; (435) 245; (440) 356
 Heterologous expression in yeast (432) 182
 Heteronuclear multiple quantum coherence-total correlation spectroscopy (440) 382
 Heterotrimeric G protein (424) 17
 Hex (426) 183
 Hexagonally packed intermediate layer (430) 105
 Hexokinase (426) 97
 Hexosamine (436) 301
 H1 histone (435) 245
 High affinity (432) 31
 High affinity IgG receptor (422) 301
 High blood pressure (430) 41
 High density lipoprotein (423) 57; (435) 153
 High glucose (421) 19
 High performance liquid chromatography (422) 175; (426) 201
 High resolution structure (436) 372
 High-density lipoprotein (431) 327
 Higher plant (429) 44
 High-performance liquid chromatography (427) 255
 Hippocampus (428) 80
 His-Asp phosphorylase (436) 76
 His-tag (426) 140
 Histidine biosynthesis (428) 229
 Histidine decarboxylase (437) 44
 Histidyl-tRNA synthetase (431) 39
 Histone (431) 131
 Histone acetylation (421) 109; (436) 193, 349
 Histone acetyltransferase (421) 109; (431) 131
 Histone deacetylase (429) 183
 Histone H2A (437) 258
 Histone H4 (421) 109; (436) 349
 HIV (431) 301
 HIV-1 (422) 363; (425) 105; (426) 271; (436) 233
 HIV-1 Env gene (431) 395
 HIV-1 inhibitor (432) 73
 HIV-1 protease (441) 419
 HL60 (440) 158
 HL-60 cell (422) 151; (426) 319; (437) 158; (441) 191, 480
 HLA class I (421) 50
 HLA/peptide stability (421) 95
 HLA-A11 (421) 95
 HMG (433) 174; (438) 311
¹H NMR spectroscopy (425) 345
¹H Nuclear magnetic resonance (440) 382
 H₂O₂ (421) 19; (440) 1
Homarus americanus (439) 143
 Homeobox (438) 25
 Homeospecific site (426) 81
 Homoallylglycine (428) 68
 Homocystinuria (431) 175
 Homogentisic acid (432) 13
 Homologue (421) 224
 Homology alignment (441) 225
 Homology modeling (425) 448
 Homology search (425) 45
 Hook-basal body (434) 325
Hordeum (436) 339
Hordeum vulgare (429) 134; (431) 481; (440) 356
 Horseradish peroxidase (421) 234; (426) 24
 Housekeeping gene (437) 313
 HPC1 (441) 127
 HPLC (430) 419
 HPLC analysis (421) 27
 HPt domain, tissue-specific expression (437) 11
 HrpW (428) 224
 hSkM1 (427) 5
 Hsp100 (438) 250
 Hsp72 (438) 1
 HT29 cl.19A cell line (437) 49
 HTLV-I (428) 183
 H⁺ translocation (438) 241
 H⁺-Translocating vacuolar-type ATPase (437) 287
 H⁺ transport (438) 10
 hTrp3 (422) 333
 Human (423) 129, 357; (426) 266, 331, 397; (432) 168; (433) 331; (434) 42; (435) 263; (437) 145; (438) 311; (439) 138
 Human B7-1(CD80) (428) 127
 Human breast cancer (425) 145
 Human calcium receptor (436) 353
 Human cell culture (433) 265
 Human ceruloplasmin (437) 293
 Human chondrocyte (431) 149
 Human chromosome 21 (441) 451
 Human disease (426) 7
 Human EAG (434) 177
 Human embryonic kidney cell (423) 376
 Human endogenous retrovirus (421) 229; (428) 1
 Human endothelial cell (421) 12; (440) 434
 Human erythrocyte (430) 312
 Human factor IX (421) 100
 Human ferritin (441) 458
 Human fetal brain (423) 367
 Human fibroblast (432) 173
 Human fungiform papilla (434) 47
 Human genome (428) 1; (430) 64
 Human glioma cell (427) 124
 Human glutathione transferase P1-1 (438) 206
 Human hepatocyte (431) 227
 Human herpesvirus-6 (441) 467
 Human high affinity IgE receptor (441) 225
 Human immunodeficiency virus (431) 85; (436) 461; (441) 353
 Human immunodeficiency virus infection (431) 236
 Human immunodeficiency virus type 1 (426) 367; (428) 235; (429) 421; (430) 165, 333; (431) 143; (432) 17; (433) 5; (441) 307, 419
 Human immunodeficiency virus type 2 (430) 165
 Human immunodeficiency virus-1 regulator of expression of virion proteins (428) 235
 Human interleukin-1 receptor type I (429) 307
 Human leukocyte (431) 107
 Human liver (440) 239
 Human low molecular weight phosphotyrosine protein phosphatase, recombinant (426) 52
 Human lysozyme (422) 175
 Human malaria parasite (423) 193
 Human melanoma (430) 227
 Human MOLT-4 cell (428) 235
 Human mu opioid receptor (439) 152
 Human muscle acylphosphatase (433) 205
 Human *MutT* homologue (429) 17
 Human myotube (423) 198
 Human osteosarcoma cell line (438) 49
 Human platelet (423) 259
 Human Rad51 (427) 247
 Human replication protein A (441) 186
 Human serum albumin (438) 255
 Human sperm (427) 309
 Human spinal cord (439) 334
 Human substance P receptor (428) 291
 Human T-cell leukemia virus type I (423) 25; (434) 367
 Human T-lymphocyte (439) 291
 Human umbilical vein endothelial cell (421) 197
 Human vascular smooth muscle cell (421) 19
 Huntington's disease (426) 229
 HXK2 (425) 475; (434) 71
 Hyaluronan (428) 171; (440) 444
Hydra (439) 31, 66
 Hydration (433) 321
 Hydration state (422) 346; (423) 125; (433) 15
 Hydrogen (438) 231
 Hydrogen bond (438) 66
 Hydrogen peroxide (422) 1, 377; (426) 62; (429) 351; (432) 13, 40; (437) 87, 177; (440) 13, 111
 Hydrogenase (438) 231

- Hydrogen-deuterium exchange (423) 205
 α,β -Hydrolase fold superfamily (438) 293
 Hydrolysis (439) 325
 Hydroperoxide (430) 154, 297; (434) 362
 Hydrophilic loop (430) 327
 Hydrophobic peptide (440) 89
 Hydrophobic residue (439) 185
 Hydroquinone (428) 141
 Hydroxamate (436) 209
 Hydroxamic acid inhibitor (431) 63
 Hydroxyapatite (422) 175
 3-Hydroxyanthranilic acid dioxygenase (424) 127
 8-Hydroxy-2-(di-*N*-propylamino)tetralin (438) 96
 12-Hydroxyeicosatetraenoic acid (441) 463
 9-Hydroxyellipticine (441) 318
 3-Hydroxy fatty acid (427) 345
 Hydroxyl radical (428) 93
 Hydroxymethylglutaryl coenzyme A reductase inhibitor (438) 289
 4-Hydroxynonenal (426) 362
N,N'-(2-Hydroxy-1,3-propanediyl)-bis-[2-iodoacetamide] (427) 362
 Hydroxyquinol 1,2-dioxygenase (433) 58
 Hydroxysteroid dehydrogenase (440) 158
 11 β -Hydroxysteroid dehydrogenase (441) 25
 Hypercapnia (430) 343
 Hypericin (440) 19
 Hyperplasia (434) 101
 Hypersensitive response (437) 319; (438) 245
 Hypertension (436) 155, 267
 Hyperthermia (431) 285
 Hyperthermophile (434) 372; (440) 311
 Hypokalemic periodic paralysis (423) 198
 Hypomethylation (439) 55
 Hypo-osmotic swelling test (423) 357
 Hypoploidy (426) 111
 Hypothalamus (424) 69; (434) 236
 Hypothermia (421) 280
 Hypotonic tolerance (434) 28
 Hypoxia (423) 334; (424) 197; (429) 67; (430) 343; (434) 313; (439) 163, 168
 Hypusine (437) 34
 Hysteresis (430) 301
- I**
- IkB (431) 23; (441) 132
 IkB α (440) 365
 Ice growth inhibition (430) 301
 ICI 182,780 (434) 236
ictB (430) 236
 Id (436) 169; (438) 85
 IFN response (425) 112
 IgE binding site (441) 225
 IgE reactivity (434) 255
 IL-1 receptor accessory protein (429) 299, 303
 IL-1 receptor type II (429) 299
 Ileal neobladder (434) 272
 Imaging methods (430) 51
 Imidazole (427) 381
 Immediate early gene (429) 254
 Immediate early response (438) 297
 Immobilization (431) 343
 Immobilized apomyoglobin (424) 275
 Immune escape mechanism (430) 227
 Immunoadhesin (421) 131
 Immunocytochemistry (422) 65; (436) 92
 Immunofluorescence (424) 183; (427) 345
 Immunofluorescent microscopy (422) 57
 Immunogenic peptide (421) 95
 Immunogenicity (431) 7
 Immunoglobulin (431) 319; (439) 341
 Immunoglobulin E (424) 234
 Immunoglobulin superfamily (421) 12; (429) 284
 Immunohistochemistry (424) 216; (432) 191
 Immunolocalization (426) 397
 Immunoprecipitation (424) 183; (430) 419
 Immunoregulation (436) 455
 Immunosuppression (422) 307; (436) 455
 Implantation (425) 191
 Importin α (428) 259
 Importin β (437) 127
 In ovo electroporation (426) 337
 In situ hybridization (424) 159; (426) 183; (431) 231; (432) 168; (438) 71, 171; (439) 31
 In vitro (425) 134
 In vitro selection (441) 322
 In vitro translation (437) 183
 In vivo (425) 436
 In vivo activation (441) 141
 In vivo metabolism (430) 145
 In vivo spectroscopy (423) 71
 Inactivation (422) 381; (423) 5; (430) 370
 Inclusion body (432) 21
 Indel (423) 143
 Independent evolution (435) 163
 Indeterminate growth (434) 409; (439) 143
 Indirect detection (440) 382
 Individual molecule (430) 51
 Indole 3-acetic acid (438) 241
 Indomethacin (422) 165
 Induced fit (432) 1
 Inducible cAMP early repressor (434) 33
 Inducible expression (422) 339
 Inducible expression system (440) 231
 Inducible nitric oxide synthase (424) 253; (426) 33; (428) 212; (440) 76
 Inducible nitric oxide synthase regulation (435) 35
 Inducible NO synthase (425) 243
 Induction (440) 55
 Induction by ethanol (439) 180
 Industrial yeast (425) 117
 Infantile sialic acid storage disorder (441) 369
 Infinite minimal periodic surface (422) 252
 Inflammation (425) 490; (426) 24; (428) 171; (429) 249; (430) 363; (433) 219; (436) 228, 449; (438) 159; (439) 97, 203, 321; (440) 8
 Influenza A virus (434) 265
 Influenza virus (425) 91
 Infrared (422) 225
 Infrared spectroscopy (425) 396; (432) 128
 Inherited disease (431) 461
 Inhibition (436) 209, 251; (437) 142; (441) 287, 327
 Inhibition of translation (435) 79
 Inhibitor (421) 80; (425) 87; (427) 115; (435) 61; (438) 131; (440) 361; (441) 318
 Inhibitor of Apoptosis (IAP) (440) 243
 Inhibitor protein (430) 397
 Initiation (430) 165; (440) 264
 Initiation factor (438) 41
 Initiation factor 3 (433) 153
 Initiation factor eIF2 (436) 343
 Initiation of transcription (440) 172
 Initiator (437) 313
 Innate immunity (430) 130; (435) 159; (437) 65
 Inositol (432) 5
 Inositol 1,4,5-triphosphate receptor (427) 55
 Inositol phosphate (428) 147
 Inositol phospholipid hydrolysis (439) 107
 Inositol triphosphate (425) 277; (437) 297
 INS-1 cell (422) 328
 Insect (425) 131
 Insect cell (422) 132; (441) 49
 Insect digestive protease (434) 401
 Insect ovary (422) 74
 Insectotoxin (441) 387
 Insertion (431) 75
 Insertional mutagenesis (427) 51
 Insulin (421) 125, 285; (422) 43; (423) 31; (424) 202; (425) 24; (427) 153; (431) 362; (435) 105; (436) 361; (437) 267
 Insulin action (426) 381
 Insulin disulfide reduction (430) 191
 Insulin receptor (421) 45; (426) 381; (437) 211; (441) 331
 Insulin release (421) 115; (439) 267

- Insulin resistance (425) 298; (437) 211; (440) 41
 Insulin secretion (422) 328; (430) 213
 Insulin sensitivity (436) 301; (438) 55
 Insulin signal transduction (421) 191
 Insulin-degrading enzyme (427) 153
 Insulin-dependent diabetes mellitus (421) 285
 Insulin-like growth factor (437) 107
 Insulin-like growth factor 1 receptor (426) 381
 Insulin-like growth factor binding protein-2 (434) 329
 Insulin-like growth factor I (422) 193; (437) 112
 Insulin-like growth factor-binding protein-5 (441) 281
 Insulin-like growth factor-I receptor (421) 45
 Insulinoma (425) 137
 Integrin (424) 84; (432) 197; (440) 414
 $\alpha 4$ integrin (429) 123
 $\beta 1$ Integrin (426) 386
 $\alpha_9\beta_1$ -Integrin (429) 269
 Integrin $\alpha_{IIIb}\beta_3$ (428) 200; (438) 225
 Integrin receptor (429) 239
 Interaction (429) 299; (439) 224
 Interaction of 3' and 5' regions of human H19 gene (432) 123
 Intercellular communication (427) 41
 Interconversion (421) 27
 Interferon (421) 131; (425) 101; (431) 268
 Interferon γ (423) 138
 Interferon receptor (421) 131
 Interferon regulatory factor (425) 112
 Interferon regulatory factor-3 (425) 112
 Interferon regulatory factor-7 (441) 106
 Interferon-3 (441) 106
 Interferon- α (441) 106
 Interferon- β (425) 112; (441) 106
 Interleukin (424) 121
 Interleukin 10 (423) 138
 Interleukin 1 β converting enzyme (427) 29
 Interleukin 5 α -receptor subunit (424) 121
 Interleukin 6 (422) 346
 Interleukin-1 (429) 299; (434) 283; (439) 75
 Interleukin-1 binding (429) 303
 Interleukin-1 receptor (429) 303; (438) 49
 Interleukin-1 α (427) 255
 Interleukin-1 β (440) 434
 Interleukin-2 (433) 23; (436) 115
 Interleukin-2 receptor (436) 115
 Interleukin-5 receptor (434) 251
 Interleukin-6 (429) 412; (433) 139; (436) 17; (441) 231
 Interleukin-6 promoter (436) 17
 Interleukin-8 (436) 329; (440) 282
 Inter-mammalian-wide interspersed repeat polymerase chain reaction (439) 63
 Intermediate (423) 265
 Intermediate filament (437) 15
 Intermolecular exchange (430) 401
 Internal flexibility (433) 321
 Internal promoter (423) 25
 Internal transcribed spacer (422) 47
 Internalization (440) 444
 Interparticle (426) 57
 Interstitial collagenase activity (441) 137
 Interstrand cross-link (437) 97
 Intersystem electron pool (430) 288
 Intestinal absorption (438) 220
 Intestinal contraction (434) 277
 Intestinal epithelial cell (439) 275
 Intestinal gene regulation (423) 218
 Intestine (435) 251
 Intrabody (427) 357; (437) 75, 81
 Intracellular antibody (439) 197
 Intracellular Ca^{2+} (435) 229
 Intracellular calcium (434) 47; (439) 291
 Intracellular messenger (440) 111
 Intracellular pH (440) 268
 Intracytoplasmic sperm injection (423) 357
 Intradiol ring-cleaving dioxygenase (433) 58
 Intragenic recombination (427) 183
 Intrinsic DNA curvature (422) 94
 Intron (434) 51
 Intronic sequence (431) 175
 Inulin (427) 25
 Invagination (432) 82
 Invasion (424) 84, 262; (440) 419
 Invertebrate immunocyte (427) 255
 Inward rectifier (432) 59; (435) 69
 Iodide (429) 36
 Iodonitrotetrazolium violet (424) 188
 Ion channel (426) 47; (427) 267; (431) 143; (435) 257
 Ion transport stoichiometry (425) 71
 Ionization potential (430) 390
 IP_3 (437) 101
Ipomoea (437) 278
Ipomoea batatas (436) 293
 Iridoid (434) 413
 Iron (422) 315; (424) 253; (429) 216; (436) 476; (441) 266
 Iron complexing capacity (422) 205
 Iron dextran (441) 369
 Iron metabolism (432) 213
 Iron oxidation (432) 213
 Iron transport (425) 239
 Iron-responsive element (436) 476
 Iron-sulfur cluster (440) 226
 Iron-sulfur protein (436) 159; (440) 409
 Iron-sulphur (432) 99
 IS30 family (428) 217
 Ischaemia (423) 314; (429) 365; (431) 59; (433) 294; (440) 377
 Islet β -cell (430) 213
 Islet of Langerhans (435) 207
O-Isobutyl *S*-[*N,N*-diethylaminoethyl]methylphosphonothiolate (438) 195
 Isochore (439) 63
 Isocitrate dehydrogenase (434) 13
 Isocitrate lyase (434) 13; (440) 55
 Isoenzyme (430) 397
 Isoflavonoid (human liver) (436) 71
 Isoform (421) 213; (422) 123; (424) 183; (433) 261; (440) 320
 Isolated mitochondrion (423) 351
 Isolation (428) 286
 Isomaltulose (441) 348
 Isomaltulose synthase (441) 348
 Isomerohydrolase (440) 195
 Isopentenyl diphosphate (434) 413
 Isoprostane (428) 32; (438) 159
 Isoproterenol (439) 287
- ## J
- Jacalin lectin (421) 169
 JAK/STAT pathway (439) 71
 JAK2 binding protein (441) 287
 Janus kinase (421) 32
 Jasmonate (437) 281
 Jerusalem artichoke (427) 25
 JNK (431) 351
 JNK stress kinase (438) 1
 Jurkat (431) 195
 Juxtaglomerular cell (422) 395
- ## K
- K^+ (424) 221
 K^+ channel (429) 381; (434) 171; (438) 177; (440) 125
 Kainate (428) 80; (430) 100, 176
 Kaposi sarcoma (441) 77
 Kappa_3 receptor (435) 65
 K_{ATP} channel (423) 314

Kch (429) 104
 67 kDa laminin binding protein (424) 243
 74-kDa regulatory subunit (430) 312
 Keratan sulfate proteoglycan (423) 254
 Keratin (428) 52; (437) 15
 Keratinocyte (428) 100
 Keratinocyte differentiation (433) 113
 Kidney (431) 263
 Kinase (426) 145; (427) 29; (434) 387
 Kinase activity (428) 205
 Kinase C (440) 183
 Kinectin (436) 51
 Kinesin (427) 79; (430) 23
 Kinetic assay (430) 217
 Kinetic barrier (432) 228
 Kinetic mechanism (425) 14
 Kinetic model (427) 325
 Kinetic stability (421) 234
 Kinetic stabilization (438) 127
 Kinetically influential mutant (437) 91
 Kinetics (422) 61; (425) 460; (440) 430; (441) 327
 Kir (434) 171
Klentaq DNA polymerase (425) 249
 Knockout mouse (422) 160
 Knock-out mouse (425) 293
 KOR-3 (435) 65
krox24 (432) 88
 Kunitz domain (436) 111
 Kunitz-type proteinase inhibitor (426) 131
 Kupffer cell functioning (426) 263
 Kv1.1 (431) 461
 KV3.4 (421) 259
 Kynurenine pathway (424) 127

L

L5 (434) 115
 Laccase (438) 195
 Lactacystin (433) 47; (440) 399
 β -Lactamase (423) 371
 Lactase (435) 225
 Lactate dehydrogenase (430) 213
 Lactoferrin (422) 205; (441) 271
 β -Lactoglobulin (421) 273
 Lambda repressor (423) 371
 Lamella (440) 444
 Lamin (425) 485
 Lamin B receptor (441) 165
 Lamina-associated protein (441) 165
 Laminarinase (433) 41
 Laminin (424) 243
 Large T-antigen (423) 307
 Large thioredoxin reductase (425) 407
 Laser flash photolysis (426) 392
 Laser photolysis (436) 259
 LAT (441) 357
 Latent transforming growth factor- β binding protein (425) 281; (435) 143
 Lateral diffusion (440) 99
 Lateral septum (424) 53
 Latrunculin B (427) 193
 Lattice contraction (441) 137
 L1210 cell (432) 50
 Leader peptidase (431) 75; (436) 263
 Leaderless mRNA (436) 213
 Lectin (425) 367; (426) 243; (427) 21, 275
 Lectin binding (440) 315
 Lectin binding property (427) 134
 Legumain (438) 114; (441) 361
 Lens (431) 319
 Lepidopteran larva (422) 132
 Leptin (422) 137; (423) 302; (429) 395; (431) 371
Leptinotarsa decemlineata Say (434) 401
 Leucine zipper (425) 323; (437) 304
 Leukemia (425) 411; (430) 241; (435) 195
 Leukemia inhibitory factor (429) 412
 Leukemic cell line (427) 91
 Leukocyte adhesion deficiency type II (429) 274
 Leukocyte mitochondrion (425) 411
 Leukocyte-function-associated antigen-1 (440) 414
 Leukotriene (434) 295
 Leukotriene A₄ hydrolase (433) 68, 219; (438) 293
 Leukotriene B₄ (433) 68, 219
 Leupeptin (436) 439
 Lewy body (440) 67, 71
 Leydig cell (422) 10
 Ligand affinity chromatography (431) 405
 Ligand binding (434) 108, 277; (438) 272; (440) 203
 Ligand binding domain (423) 223
 Ligand clustering (426) 243
 Ligand-gated channel (434) 61
 Ligand-receptor interaction (422) 201
 Light harvesting complex II (432) 21
 Light harvesting protein (435) 101
 Light scattering (421) 273; (426) 255
 Light-harvesting chlorophyll *a/b* protein (423) 178
 Light-harvesting complex 1 (432) 27
 Lignin peroxidase (422) 391; (430) 390; (439) 219
 Lignolytic fungus (428) 141
limA (438) 293
 Limited proteolysis (423) 1; (435) 191
 Limonene-1,2-epoxide hydrolase (438) 293
 Linker histone (441) 161
 Linoleic acid (433) 237
 Lipid (432) 5; (436) 304
 Lipid binding site (426) 165
 Lipid mediator (433) 23
 Lipid membrane (424) 239
 Lipid oxidation (433) 44
 Lipid peroxidation (422) 285, 296; (423) 297; (424) 155, 197; (426) 362; (427) 305; (428) 32; (430) 348, 405; (433) 215
 Lipid peroxide (423) 57; (433) 44
 Lipid transfer protein (424) 234; (428) 193
 Lipid-protein interaction (436) 304
 Lipocalin (436) 455
 Lipodepsipeptide (433) 317
 Lipofuscin (439) 231
 Lipogenesis (431) 371
 Lipolysis (435) 125
 Lipopolysaccharide (425) 134, 490; (429) 249; (431) 107, 116; (437) 65; (440) 76
 Lipoprotein (421) 208; (429) 207; (430) 145; (439) 51
 Lipoprotein (a) (441) 205
 Lipoprotein lipase (431) 371
 Liposomal membrane (432) 150
 Liposome (421) 61; (438) 106
 Liposome solubilization (426) 314
 Lipoxidation (437) 24
 5-Lipoxygenase (434) 421; (437) 49
 15-Lipoxygenase (434) 437
 Lipoxygenase inhibitor (424) 22
Liriodendron (437) 278
 Lisinopril (423) 75
N-Lissamine rhodamine (428) 115
 Liver (425) 185, 293; (426) 183; (429) 179
 Liver cell (423) 45; (435) 21
 Liver disease (438) 37
 Liver mitochondrion (428) 89; (433) 261; (435) 269
 Liver regeneration (426) 305; (427) 179
 Liver-type (426) 121
 L7-L10 complex (423) 347
 L7/L12 protein (423) 347
 LLU α (437) 145
 LMW-PTP (431) 111
 L6 myoblast (438) 289
 Local gene therapy (425) 436
 Local H⁺ activity gradient (440) 223
 Localization (428) 85
 Location (426) 266
 LolA (439) 51

Long QT syndrome (423) 5
 Long terminal repeat (421) 229; (423) 25; (428) 1
 Long-term potentiation (428) 80
 Long-wavelength chlorophyll (436) 339
 Loop structure (434) 23
 Lovastatin (426) 29, 342
 Low density lipoprotein (423) 57; (434) 183, 317
 Low density lipoprotein oxidation (423) 297; (426) 331; (436) 357
 Low molecular weight phosphotyrosine protein phosphatase (426) 52
 Low molecular weight phosphotyrosine protein phosphatase isoenzyme expression (426) 52
 Low molecular weight phosphotyrosine protein phosphatase isoenzyme purification (426) 52
 Low molecular weight phosphotyrosine protein phosphatase isoform 1/isoform 2 crystallization (426) 52
 Low M_r phosphotyrosine protein phosphatase isoform (422) 213
 Low M_r phosphotyrosine protein phosphatase, substrate recognition (422) 213
 Low temperature (430) 288
 Low-affinity ATP binding site (441) 103
 Low-density lipoprotein (431) 116
 Low-density lipoprotein receptor-related protein (428) 13
 Lower critical solution temperature polymer (421) 61
 Lower plant (423) 178
 LOX-1 (440) 29
 L10 protein (423) 347
 LTR-CAT (428) 183
 L-type Ca^{2+} channel (423) 213
 L-type calcium current (423) 198
 L-type pyruvate kinase gene (421) 285
 Lucifer yellow (427) 41
 Luciferase (422) 328; (432) 88; (435) 1; (438) 190; (441) 97
fos-Luciferase (440) 291
 Luciferin (438) 190
 LukE+LukD (436) 202
Lumbricus rubellus (431) 437
Lunatic Fringe (426) 337
 Lung (426) 183; (441) 292
 Lung cancer (429) 17
 Lung injury (423) 231
 Lung surfactant protein A (437) 65
 Lupanine (436) 251
 Luteinizing hormone/human chorionic gonadotropin receptor (422) 274
 Luteolin (438) 220
 Luteolin 7-*O*- β -Glucoside (438) 220
Lycopersicon esculentum (429) 44; (433) 237
 Lymphoblastoid cell line (439) 297
 Lymphocyte (427) 29, 275; (429) 274; (430) 414; (436) 387
 Lyn (427) 139
 Lysine-614 (433) 211
 Lysophosphatidic acid (427) 188
 Lysophosphatidylcholine (433) 161; (441) 63
 Lysophosphatidylcholine/transacylase (437) 193
 Lysosomal carboxypeptidase (424) 136
 Lysosomal protease (435) 233
 Lysosomal storage disease (441) 369
 Lysosomal transporter (436) 223
 Lysosome (426) 102; (436) 439; (440) 258; (441) 369
 Lysyl hydroxylase (434) 145

M

α 2-Macroglobulin (422) 346
 Macrophage (425) 185, 239, 490; (426) 233; (427) 263; (431) 85, 116, 327; (433) 215; (434) 97; (439) 321; (440) 29
 Macrophage migration inhibitory factor (427) 85; (430) 191
 Macrophage stimulating protein (429) 1
 Madin-Darby canine kidney cell (428) 115; (441) 170
 Magnesium (437) 229; (440) 167
 Magnesium binding (441) 242
 MAGUK family protein (433) 63

Maillard reaction (427) 381
 Maize (421) 109; (422) 400
 Major histocompatibility (436) 55
 Malaria (422) 311
 Malaria pigment (433) 215
 Malaria (*Plasmodium falciparum*) (424) 257
 Malate dehydrogenase (427) 179
 Malate synthase (434) 13; (440) 55
 MALDI-TOF mass spectrometry (439) 46
 Malignant melanocyte (435) 187
 Malondialdehyde (421) 180
 Malonic acid (434) 362
 Malonyl CoA:ACP transacylase:*fab D* (435) 204
 Mammalia (421) 23
 Mammalian cell (432) 158
 Mammalian clock gene (441) 427
 Mammalian expression system (425) 105
 Mammalian hexokinase (434) 42
 Mammalian retina (440) 454
 Mammalian target of rapamycin (421) 120; (425) 179
 Mammalian-wide interspersed repeat (439) 63
 Mammary epithelial cell (426) 225
 Mammary gland (431) 391; (439) 351
 Manganese (424) 146; (428) 141; (439) 263
 Manganese peroxidase (434) 362
 Mannose-6-phosphate-binding lectin (431) 273
 MAP (428) 63
 MAP kinase (441) 15, 88
 MAP5 (423) 254
 MAPKAP-K2 (441) 15
 Mapping (428) 1
 Marimastat (441) 137
 Marine alga (428) 105
 Mass spectrometry (422) 165, 343; (425) 286; (428) 263; (430) 269, 419; (435) 131
 Mast cell (436) 449
 Mastoparan B (432) 50
 Mating factor (429) 83
 Matrilin (436) 123; (438) 165
 Matrix degradation (421) 159
 Matrix Gla protein (433) 19
 Matrix metalloprotease (425) 191
 Matrix metalloproteinase (421) 159; (427) 275; (430) 186; (436) 209; (440) 419
 Matrix metalloproteinase-1 (441) 88
 Matrix metalloproteinase-2 (424) 262
 Maturation (423) 31; (437) 1
 Maturation promoting factor (422) 155
 Maxicircle (431) 457
 M2 channel (434) 265
 MDCK cell (431) 200
 MDM2 (434) 115
Mdx mouse (431) 125; (439) 357
 Me-AIB (441) 15
 Mechanical stretch (430) 358
 Mechanism (440) 264
 Mechanism-based inhibition (426) 41
 Mechanotransduction (430) 358
 Medaka (*Oryzias latipes*) (424) 159
 Mediator (439) 219
 Megakaryocyte (423) 10; (427) 46
 Meiotic maturation (425) 465
 MEKK1 (425) 431
 MEL cell (436) 41
 Melanocortin receptor antagonist (428) 59
 Melanocyte-stimulating hormone (428) 59
 Melanoma-associated antigen (426) 373
 Melting temperature (425) 91
 Membrane (427) 353
 Membrane anchor (433) 83
 Membrane asymmetry (433) 287
 Membrane attachment (440) 454
 Membrane binding (425) 341
 Membrane biogenesis (428) 241
 Membrane domain (430) 88
 Membrane fusion (423) 113, 286; (433) 169; (435) 211; (437) 255
 Membrane immunochemical analysis (422) 57
 Membrane insertion (433) 83

- Membrane organisation (422) 252
 Membrane oxidase (439) 329
 Membrane phosphorylation (424) 165
 Membrane potential (423) 339; (429) 351; (430) 409; (432) 59; (433) 93; (434) 188; (435) 269
 Membrane protein (422) 201; (424) 105; (427) 11; (429) 104; (431) 29, 75, 468; (436) 85, 189; (441) 25
 Membrane protein fragment (433) 223
 Membrane protein translocation (436) 263
 Membrane receptor (422) 349
 Membrane topology (425) 19; (426) 174
 Membrane traffic (431) 200; (440) 258
 Membrane type 1 matrix metalloproteinase (424) 262
 Membrane vesicle (428) 52
 Membrane-bound enzyme (430) 150
 Membrane-type matrix metalloproteinase (421) 159; (430) 186
 Memory formation (431) 386
 Menkes disease (435) 178; (440) 141
 Mesangial cell (435) 35; (440) 163; (441) 205
 Mesoionic compound (440) 46
 Messenger RNA (429) 167; (435) 195; (438) 81
 Metabolic control analysis (422) 33
 Metabolic zonation (421) 136
 Metabolism (428) 32
 Metabotropic glutamate receptor (437) 304
 Metal binding (435) 257; (440) 425; (441) 195
 Metal exchange (438) 137
 Metal ion (422) 315; (433) 301; (439) 35
 Metal-catalyzed oxidation system (431) 473
 Metalloproteinase (422) 175
 Metalloenzyme (431) 154
 Metalloproteinase family M3 (435) 16
 Metalloprotease (429) 78
 Metalloprotein (422) 315
 Metalloproteinase (435) 29, 39; (441) 88
 Metallothionein (431) 437
 Metamorphosis (425) 131
 Metarhodopsin (436) 259
 Metastasis (422) 79; (423) 19; (427) 5; (434) 289; (440) 277
 Metavinculin (431) 49
 Methane monooxygenase (430) 181
Methanobacterium thermoautotrophicum (438) 124
 Methanogenesis (428) 295
 Methanogenic archaeon (425) 204; (436) 401; (438) 124
 Methionine adenosyltransferase (426) 305
 Methionine oxidation (433) 196
 Methionine replacement (428) 68
 Methionyl-tRNA synthetase (427) 259
 Methoxyflurane (438) 201
 4-Methoxy mandelic acid (439) 219
 4-(2'-Methoxy)-phenyl-1-[2'-(*N*-2"-pyridinyl)-*p*-fluorobenzamido]ethyl-piperazine (438) 96
 4-(2'-Methoxy)-phenyl-1-[2'-(*N*-2"-pyridinyl)-*p*-iodobenzamido]ethyl-piperazine (438) 96
N-Methyl-D-aspartate receptor (423) 376; (435) 257
 Methylation (428) 1
 Methylcytosine (425) 337
 Methylglyoxal (427) 381
 Methylmalonic aciduria (432) 173
 3-(4'-Methyl-1'-naphthyl)-propionic acid, 1',4'-endoperoxide (NEPO) (432) 9
 2-methyl-6-(*p*-methoxyphenyl)-3,7-dihydroimidazo[1,2- α]pyrazin-3-one (430) 348
 α -Methylprednisolone (439) 357
 α -Methyl-*p*-tyrosine (429) 395
N-Methylpurine-DNA glycosylase (431) 12
*N*⁵-Methyltetrahydromethanopterin:coenzyme M methyltransferase (425) 204; (436) 401
 Metronidazole (428) 188
 Mg²⁺ (425) 523
 mHsp70 (435) 183
 Micellar catalysis (424) 239
 Micelle (421) 263
 Microcalorimetry (423) 75; (435) 219
 Micro-environment (421) 141
 Microglia (433) 37; (436) 439
 Microglial cell line (433) 37
 Microhelix (427) 315
 Microinjection (435) 237; (436) 313; (440) 297
 Microscopy (441) 97
 Microsequencing (424) 22
 Microsomal fraction (425) 171
 Microsomal lipid peroxidation (425) 256
 Microtubule (425) 134; (426) 248; (428) 63; (431) 357; (435) 275
 Microtubule assembly (436) 28; (437) 207
 Microtubule associated protein (426) 248
 Microtubule associated protein tau-1 (436) 28
 Microtubule-associated protein 1B (423) 254
 Midbody (441) 121
 Midpoint potential (440) 409
 Migration (440) 419
 Milk protein (439) 351
 MIN6 (430) 213
 Mini-gene *white* (425) 513
 Misfolding (441) 271
 Mismatch (425) 45
 Mismatch pair (429) 21
 Mistletoe lectin (431) 367
 Mitochondria (421) 15; (431) 167; (434) 188; (435) 25
 Mitochondrial creatine kinase (425) 75
 Mitochondrial cytochrome (426) 263
 Mitochondrial disease (422) 33; (433) 93, 269
 Mitochondrial DNA (425) 259; (426) 352; (432) 173; (440) 325; (441) 292
 Mitochondrial dysfunction (441) 159
 Mitochondrial import (426) 187
 Mitochondrial inner membrane (426) 187
 Mitochondrial membrane potential (426) 155; (433) 287
 Mitochondrial mutation (441) 159
 Mitochondrial permeability transition pore (426) 97
 Mitochondrial protein import (431) 39
 Mitochondrial respiration (439) 321
 Mitochondrial RNA (432) 173
 Mitochondrial transmembrane potential (426) 111
 Mitochondrial transport (435) 6
 Mitochondrial uncoupling (440) 46
 Mitochondrion (421) 37; (422) 33; (423) 45, 275; (425) 185, 213, 259; (427) 179, 198; (428) 245; (429) 351; (430) 246, 338, 409; (431) 34; (433) 143, 237; (434) 313; (437) 5; (438) 150, 250, 301; (439) 55, 307, 321; (440) 223; (441) 266
 Mitogen (438) 101
 Mitogen-activated protein kinase (425) 271, 465; (434) 241, 305; (435) 96; (437) 112; (441) 205, 275
 Mitogen-activated protein kinase cascade (437) 56
 Mitogen-activated protein kinase phosphatase 3 (425) 271
 Mitogen-activated protein kinase-activated protein kinase 2 (426) 93
 Mitogen-associated protein kinase (422) 155; (429) 365
 Mitogenesis (423) 53
 Mitomycin C (437) 97
 Mitsugumin29 (431) 263
 Mixed ribo/deoxypolynucleotides (439) 302
 MK-801 (423) 376
 mLIM3 (431) 333
 Modified nucleoside (431) 427
 Modulation (434) 160
 Mole rat erythrocyte (430) 343
 Molecular chaperone (430) 150; (431) 322; (433) 228; (438) 250
 Molecular dynamics (426) 77; (427) 267; (431) 143; (434) 265; (439) 13
 Molecular dynamics simulation (425) 448
 Molecular evolution (423) 155
 Molecular marker (429) 17
 Molecular mechanics calculation (421) 243
 Molecular modelling (425) 234; (438) 215
 Molecular motor (426) 301
 Molecular phylogeny (429) 4
 Molecular recognition (433) 5
 Molecular ruler (434) 357
 Molecular sensor (438) 267
 Molecular stability (427) 252
 Molecular tropism (433) 5
 Moloney murine leukemia virus (434) 367
 Molten globule (425) 101; (439) 21
 Molten globule state (430) 150
 Molybdenum cofactor (431) 205
 Molybdopterin (431) 205
 MongOOSE (426) 212; (431) 411

Monoacylglycerol (429) 152
 Monoclonal antibody (421) 50; (423) 239; (432) 94, 191; (441) 53, 307
 Monoclonal antibody A0 (425) 7
 Monocotyledon (423) 324
 Monocyte (426) 233; (427) 275; (441) 463
 Monocyte chemoattractant protein (430) 158
 Monomer-dimer equilibrium (425) 14
 Monooxygenase (424) 271
 Morphine (421) 280
 Mos (437) 39
 Motif 5 (421) 83
 Motilin (435) 149
 Motility (422) 296; (431) 1
 Motility inhibiting factor (438) 236
 Motor (430) 278
 Motor neuron (431) 231
 Mouse (435) 131, 263; (437) 263; (440) 332
 Mouse chromosome 8 (425) 310
 Mouse connexin36 gene (428) 27
 Mouse genome (430) 64
 Mouse interleukin-1 receptor accessory protein (429) 307
 Mouse *klotho* gene (424) 6
 Mouse macrophage (440) 51
 Mouse P2X₇ receptor (439) 26
 MPM-2 antigen (424) 225
 mRNA (421) 2; (423) 133; (436) 55
 mRNA 5'-capping (435) 49
 mRNA 5'-triphosphatase (435) 49
 mRNA competition (422) 89
 mRNA degradation (427) 236
 mRNA expression (429) 263; (431) 391; (438) 285
 mRNA nuclear export (434) 367
 mRNA stability (436) 483; (439) 75
 mtDNA (426) 357
 mTOR (441) 15
 Mu opioid receptor (427) 96; (441) 148
 Mucosa (435) 251
 Mucosal immunity (434) 272
 MukB (430) 278
 Multi-antennary Galβ1 → 4GlcNAc (427) 134
 Multidimensional nuclear magnetic resonance spectroscopy (439) 13
 Multidrug resistance (431) 185; (433) 149
 Multidrug resistance-associated protein (433) 149
 Multifunctional protein (422) 170
 Multigene family (438) 311
 Multiline EPR signal (424) 146
 Multi-nuclear magnetic resonance (436) 372
 Multiple conductance channel activity (425) 259
 Multiple isoform (433) 119
 Multiple sulfatase deficiency (423) 61
 Multiple system atrophy (436) 309
 Multispecific transporter (429) 179
 Muramyl peptide (426) 373
 MurC synthetase (426) 309
 Murine embryo (426) 183
 Muscle (427) 279
 Muscle contraction (438) 141
 Muscle degeneration (439) 89
 Muscle mitochondrion (439) 258
 Muscle regeneration (423) 71
 Muscle structure (429) 95
 Muscular dysgenesis mouse (423) 198
 Muscular dystrophy (422) 27; (431) 125
 Mutagenesis (424) 207, 271; (429) 341, 381; (430) 197; (434) 205; (435) 69; (436) 67; (438) 10; (440) 264; (441) 93, 467
 Mutagenesis analysis (434) 255
 Mutant (423) 189; (424) 248
 Mutation (421) 249; (423) 319; (430) 145; (433) 269; (437) 216
 Mutation analysis (431) 175
 Myb (425) 52
Mycobacterium (425) 151; (437) 142
Mycobacterium tuberculosis (427) 259
 Myelin fatty acid-binding protein (437) 183
 Myeloperoxidase (425) 243; (426) 24; (440) 377; (441) 476
 Myoblast fusion (423) 71; (434) 177
 Myocardial ischemia (438) 32
 Myocardium (422) 247; (434) 309
 MyoD (437) 39

Myofibril anchorage (431) 49
 Myofibrillogenesis (428) 111
 Myogenesis (433) 47
 Myoglobin (434) 309
Myo-inositol (426) 145
 Myosin (427) 341; (430) 23; (438) 141
 Myosin light chain kinase (431) 210
 Myotonia (421) 259
 Myristoylated alanine-rich C kinase substrate (421) 203
 Myristoylation (422) 343

N

Na⁺ channel (423) 19; (427) 5; (436) 251
 Na⁺ pump (422) 240
 Na⁺,K⁺-ATPase chimera (425) 71
 Na⁺/Ca²⁺ exchange (431) 215; (434) 188
 Na⁺/H⁺ antiporter (441) 53
 Na⁺/H⁺ exchange (424) 1
 Na⁺/I[−] symporter (429) 36
 Na⁺/K⁺-ATPase (441) 103
 Na⁺-translocating NADH-quinone reductase (422) 240
 Na,K-ATPase (436) 466
 NAD⁺ (433) 275; (439) 291
 NADH-coenzyme Q₀ reductase (428) 43
 NADH-quinone oxidoreductase (421) 37
 NADP-binding motif (438) 124
 NADPH (434) 97
 NADPH dependent diaphorase (424) 188
 NADPH oxidase (425) 209
 NaF (433) 157
Naja naja sputatrix (433) 119
 Na-KATPase (430) 41
 Nascent polypeptide associated complex (441) 1
 Native and asialo-Tamm-Horsfall glycoproteins (429) 323
 Native chemical ligation (429) 31
Natronobacterium pharaonis (427) 59
 Natural killer cell (426) 243
 Natural resistance (428) 63
 NaVO₃ (433) 157
 N-copine (428) 80
 ND8 (431) 457
ndh (429) 115
 N domain (431) 255
 NDP kinase (423) 235
 Necrosis (425) 266; (440) 19
 Nef (422) 363; (441) 307
 Negative cis element (440) 119
Neisseria gonorrhoeae (424) 84
 Nematode (429) 4
Nematoloma frowardii (434) 362
 Neo-epitope (430) 186
 Neoglycolipid (441) 353
 Nephrogenesis (423) 362
 Neprilysin (438) 215
 Nerve growth factor (424) 285; (425) 271; (429) 254
 Nerve terminal (436) 85
 Nested polymerase chain reaction (438) 311
 Neural crest (432) 168
 Neural network prediction (433) 98
 Neuregulin (431) 102
 Neurobiology (430) 55
 Neuroblastoma (424) 243; (431) 319; (438) 25; (440) 25
 Neurodegenerative disease (440) 67, 71
 Neurodegenerative disorder (426) 196
 Neurogenesis (426) 337; (436) 361
 Neurological disorder (438) 25
 Neuromuscular junction (432) 133; (435) 275; (437) 29
 Neuron (434) 188; (441) 215
 Neuronal Cdc2-like kinase (423) 227
 Neuronal cell (422) 118; (439) 168
 Neuronal cell nuclear factor (439) 208

- Neuronal differentiation (425) 271
 Neuronal expression (439) 203
 Neuronal nicotinic receptor (433) 89
 Neuron-microglia interaction (429) 167
 Neuropeptide (425) 137; (430) 55; (435) 199; (439) 31; (441) 366
 Neuroprotection (430) 176
 Neurosecretion (435) 84
 Neurotensin (421) 280; (432) 88
 Neurotensin type 1 receptor (432) 88
 Neurotoxicity (431) 215; (441) 220
 Neurotransmitter (430) 55; (431) 400; (439) 334
 Neurotransmitter transporter (426) 174
 Neurotrophic factor (424) 285
 Neurotrophin receptor (440) 135
 Neutrophil (421) 141; (424) 188; (430) 363; (432) 40; (435) 45; (439) 97, 147; (441) 63
 Neutrophil activation (440) 282
 Neutrophil infiltration (425) 243
 New human aspartic proteinase (441) 43
 New subunit (438) 301
 Newly replicated chromatin (428) 23
 NF- κ B (441) 127
 NF-IL6 (431) 23
 NF- κ B (427) 15; (431) 23; (441) 441
 NF κ B-I κ B (430) 130
 NF-Y (433) 174
 nGAP (441) 127
 NhaA (441) 53
 Ni²⁺-chelate chromatography (426) 140
Nicotiana tabacum (437) 287, 319
 Nicotinamide adenine dinucleotide (440) 1
 Nicotinamide adenine dinucleotide-dependent dehydrogenase (423) 105
 Nicotine (423) 223
 Nicotinic acetylcholine receptor (423) 223
 Nicotinic acid biosynthesis (424) 127
 Niflumic acid (426) 47
 NifS-like protein (433) 143
 Nigericin (425) 222; (433) 169
 Nigritin (428) 75
 NIH-3T3 cell (436) 17
ninaE (424) 149
N-Nitramine (436) 144
 Nitrate (427) 225
 Nitrate reductase (441) 257
 Nitrate tolerance (428) 97
 Nitrate transport (432) 207
 Nitration (429) 347
 Nitric oxide (424) 79, 197, 211, 239, 253; (425) 52; (427) 171, 225, 263, 320; (428) 97, 212; (429) 139; (430) 397; (431) 107, 125, 297; (433) 125; (434) 97; (435) 35; (438) 145; (439) 321; (440) 218
 Nitric oxide production (436) 411
 Nitric oxide synthase (430) 377, 397; (431) 71, 210; (433) 47; (434) 261, 421; (438) 161
 Nitric oxide synthetase (429) 249
 Nitrilase (433) 78
 Nitrile (439) 325
 Nitrile hydratase (433) 78
 Nitrite (427) 225
 Nitrite reductase (436) 239
 Nitrobenzimidazol(on)e (427) 325
 Nitrobenzylthioinosine (422) 368
 Nitrogen (429) 259
 Nitrogen dioxide (436) 387
 Nitrogen metabolism (427) 291
 Nitrogen monoxide (439) 85
 Nitrogenase (*Azotobacter vinelandii*) (432) 55
 Nitrophenolic herbicide (428) 188
 Nitrosation reaction (431) 297
 Nitrosothiol (424) 239
S-Nitrosylation (430) 59
 Nitrosyl iron complex (424) 253
 Nitrotyrosine (422) 381
 NK-lysin (425) 341; (439) 267
nm23 (434) 289
 Nm23-H1 (423) 235
 Nm23-H2 (423) 235
 NMDA receptor (441) 392
 NMR (423) 93; (424) 169; (427) 74; (429) 21; (430) 126; (431) 250; (436) 128
 NMR, solid state ²H- (422) 201
¹⁵N nuclear magnetic resonance (439) 101
Nocardioes simplex (433) 58
 Nociceptin (435) 65
 Nociception (433) 257
 Non-A β component precursor (421) 73
 Non-gastric H,K-ATPase (440) 320
 Non-heme iron (430) 181
 Non-hydrolyzable bond (425) 29
 Non-hydrolyzable substrate analogue (421) 83
 Non-immunosuppressive cyclosporin A analogue (431) 386
 Non-opioid-opioid hybrid receptor (427) 296
 Non-peptide (423) 15
 Non-peptide compound (421) 217
 Non-photochemical fluorescence quenching (440) 59
 Non-shivering thermogenesis (439) 258
 Non-specific channel (432) 59
 Non-structural protein 3 (438) 258
 Non-synonymous nucleotide substitution (440) 337
 Norepinephrine transporter (423) 376
 Northern blot (432) 168; (441) 43
Notch signal pathway (426) 337
 Notexin (423) 71
 Novel GTP-binding protein (429) 407
 Noxiustoxin (429) 381
¹⁴N quadrupolar effect (436) 243
 NR3 subunit (441) 392
 NRAMP1 (428) 63
 Nrampl polypeptide (425) 239
 NS5A (423) 143
 NSF attachment protein (423) 113
 N-terminal amino acid sequence (436) 159
 N-terminal cleavage (431) 236
 N-terminal loop (439) 41
 N-terminal peptide (427) 55
 N-terminal sequence (422) 391; (436) 293
 Nuclear assembly (428) 52
 Nuclear Ca²⁺ (432) 82
 Nuclear *c-myc* RNA (421) 50
 Nuclear envelope (428) 52; (429) 44; (441) 165
 Nuclear factor κ B (422) 99; (425) 195, 431; (429) 67, 307, 365; (431) 351; (432) 40; (433) 47; (434) 140; (435) 29; (436) 329; (438) 49; (440) 8, 76; (441) 132
 Nuclear hormone receptor (438) 55
 Nuclear import kinetics (436) 313; (440) 297
 Nuclear lamina (441) 165
 Nuclear localization signal (428) 259; (429) 421; (437) 127
 Nuclear magnetic resonance (421) 180; (423) 110, 347; (425) 234, 523; (426) 325; (429) 9; (433) 301; (434) 309; (436) 149, 243; (440) 93, 365; (441) 77, 93, 413
 Nuclear magnetic resonance spectroscopy (422) 315; (428) 269; (430) 317
 Nuclear magnetic resonance structure (421) 263
 Nuclear membrane (432) 191
 Nuclear orphan receptor (439) 208
 Nuclear protein binding (421) 105
 Nuclear protein export (433) 185
 Nuclear protein import (428) 259; (437) 127
 Nuclear receptor (431) 476; (436) 395
 Nuclear tubular structure (432) 82
 Nuclease activity (436) 35
 Nucleophile residue (440) 208
 Nucleoprotein (425) 91; (433) 9
 Nucleoside diphosphate kinase (434) 289
 Nucleoside transport (422) 368
 Nucleosome (441) 161
 Nucleosome assembly (421) 109; (431) 66
 Nucleotide metabolism (441) 327
 Nucleotide pyrophosphatase (421) 77
 Nucleotide receptor (430) 78
 Nucleotide sequencing (436) 193
 Nucleotide triplet periodicity (426) 86
 Nucleus (425) 475; (440) 444; (441) 480

O

OAT1 (438) 321
ob gene (429) 395; (439) 89
 Obese (*fal/fa*) rat (437) 211
 Obese protein (422) 137
 Obesity (431) 80; (436) 61
 Oct-1 (424) 27
Oct-1 gene (426) 81
 Octadecanoid pathway (437) 281
 Octamer (425) 75
 Octamer site (426) 81
 Octopus rhodopsin (436) 259
 Odorant response (426) 377
 Okadaic acid (422) 209; (424) 165; (430) 222; (435) 195; (440) 147
 Oleate (*n*-6)-desaturase (425) 171
 Olfaction (426) 377
 Olfactory cilia (426) 377
 Olfactory receptor neuron (426) 377
 Oligodeoxynucleotide (427) 301
 Oligomer (431) 322
 Oligomerization (421) 73; (427) 85; (434) 155
 Oligonucleotide (435) 74; (438) 211
 Oligonucleotide derivative (440) 38
 Oligonucleotide uptake (430) 241
 Oligopeptidase (433) 251
 Oligosaccharide (429) 341; (436) 128
 OmpF (432) 117
 Oncogene (440) 291
 Oocyte (423) 31; (426) 171
 Oocyte activation (423) 357
 Oocyte expression (429) 381
 Oocyte maturation (422) 155; (425) 191
oop RNA (bacteriophage λ) (432) 70
 Ootically defined magnetic resonance spectroscopy (422) 52
 Operon (426) 86
 Opioid (439) 13
 Opioid peptide (427) 296; (429) 41
 δ -Opioid receptor (425) 453
 Opioid receptor (435) 65; (441) 67
 Opsin (423) 155
 Opsin kinase (424) 159
 Optical trap (430) 23
 Ordered aggregation (433) 307
 Orexin (438) 71; (440) 51
 Organic anion (429) 179
 Organic anion transport (425) 79
 Organic anion transporter (438) 321
 Organic cation transport (425) 79
 Organic cation transporter (433) 245
 Organic cation transporter like-2 (433) 245
 ORL-1 (435) 65
 Ornithine decarboxylase mRNA (423) 98
 Orphan (424) 193
 Orphan G protein-coupled receptor (430) 55
 Orphan receptor (424) 73
 Orphanin FQ (435) 65
Oryza sativa (428) 275; (438) 241
 Oscillation (431) 297
 Oscillin (423) 357
 Osmofragility (427) 21
 Osmolarity (424) 248
 Osmotic gene regulation (439) 180
 Osmotic stress (424) 221
 Osteoarthritis (433) 331
 Osteoblastic cell (428) 212
 Osteoclast (422) 255
 Osteopontin (422) 15
 Outer membrane (434) 160; (439) 51
 Outer membrane disruption (426) 111
 Outer membrane protein (426) 1
 Outer mitochondrial membrane (429) 173
 Outward current (440) 51
 Ovarian cancer (438) 101

Ovarian carcinoma (426) 386
 Overexpression (425) 145
 Ovine (422) 137
ovo (421) 224
 Oxalic acid (437) 117
 Oxazolidinone (425) 40
 Oxidant (427) 129
 Oxidation (429) 239; (437) 167; (439) 231
 α -Oxidation (429) 119
 Oxidative DNA damage (440) 103
 Oxidative phosphorylation (428) 89; (430) 246; (435) 25
 Oxidative stress (422) 99, 285, 403; (423) 39; (426) 221; (427) 15, 271; (428) 47; (429) 17, 365; (431) 285; (438) 159; (439) 253; (440) 1
 Oxidized low density lipoprotein (425) 123; (434) 317; (440) 29
 Oxidoreductase (434) 372
 8-Oxo-deoxyguanosine (429) 17
 8-Oxo-2'-deoxyguanosine (439) 363
 2-Oxoglutarate (434) 145
 Oxyferryl derivative (422) 1
 Oxygen (421) 136; (422) 33; (425) 171; (434) 313
 Oxygen affinity (441) 93
 Oxygen evolving complex 23 (426) 347
 Oxygen free radical (427) 341; (435) 153
 Oxygen radical (424) 197
 Oxygen sensing (440) 343
 Oxygen uptake (426) 263
 Oxygenation of trilinolein (431) 433
 Oxysterol (440) 434
 Ozone (422) 403

P

11p15.5 (433) 245
 p21 (434) 219
 P22 (432) 228
 p35 (427) 144
 p38 (427) 29; (441) 88
 p47 (437) 255
 p48 (441) 106
 p53 (425) 499; (430) 171, 353; (434) 115; (439) 297
 p55 (433) 63
 p62 (435) 138; (438) 297
 p202 (438) 21
 P700 (430) 288
 p70^{36k} (441) 15
 p75 (424) 285
 p97 (437) 255
 p₄A (433) 283
 PACE4 (434) 155
Pag gene expression (423) 39
 Pair of basic residues (428) 37
 Palmitoylation (429) 370; (441) 148
 Pancreas (435) 225
 Pancreatic β -cell (439) 267
 Pancreatic islet (421) 115
 PAP-2c (427) 188
 Papain (433) 78
 Papain proteolysis (424) 188
 Papaya proteinase IV proregion (434) 401
 PAP-S (431) 259
Parabuthus (441) 387
Paracoccus denitrificans (433) 93
 Paramagnetic shift (424) 169
 Paraoxonase (423) 57
Parasilurus asotus (437) 258
 Parathyroid hormone-related peptide (433) 331
Pardachirus marmoratus (435) 173
 Pardaxin (435) 173
 Pardaxin uptake (440) 131
 Parkinson's disease (436) 309; (440) 67, 71
 Partial hepatectomy (426) 305
 Particulate agonist (436) 335

- Parvovirus (427) 229
 Patch clamp (440) 302
 Patch-clamp (422) 333; (425) 259; (440) 51
 Pathogenesis-related protein (437) 87
Pax-3 (422) 118
P450_{cam} (424) 271
p130Cas (432) 197
PC12 (434) 231
PC12 cell (425) 271; (441) 220
PC12 cell permeabilization (432) 187
P450 content (438) 145
pcnB gene (*Escherichia coli*) (432) 70
PD 98059 (429) 249; (434) 241
P-dlg (433) 63
PDX-1 (431) 362
PDZ domain (424) 63; (425) 317; (427) 103; (437) 304
Pea (435) 101
Pectate lyase (428) 224
Penicillium purpurogenum (423) 35
Penicillium simplicissimum (422) 65
Pentamidine (433) 251
 Pentose phosphate pathway (440) 430
Pentoxifyresorufin-O-depentylyase (422) 185
Peptidase clan (441) 361
Peptide (431) 170; (440) 135; (441) 387, 419
Peptide aldehyde (424) 136
Peptide antibiotic (430) 130
Peptide antibody (427) 79
Peptide design (429) 9
Peptide display (427) 103; (434) 23; (436) 263
Peptide inhibitor (436) 209
Peptide library (431) 170; (433) 103; (436) 263
Peptide methionine sulfoxide reductase (433) 196
Peptide nucleic acid (421) 280; (426) 33
Peptide phage display (426) 67
Peptide solution structure (425) 234
Peptide structure (439) 13
Peptide uptake (440) 131
Peptide-specific antibody (425) 199; (426) 165
Peptidyl prolyl cis/trans isomerase (432) 202
Peptidylarginine deiminase (433) 113
Peptidyl-prolyl isomerase (422) 307
Peptidyl-prolyl-cis/trans-isomerase (431) 386
 Percentage of parallel strands (440) 153
Perilipin (435) 125
 Perinatal development (433) 261
 Perinatal liver (421) 213
 Periodontal disease (422) 205
 Periodontal ligament fibroblast (430) 358
 Periodontitis (440) 282
 Periplasm (439) 51
 Periplasmic (439) 192
 Permeability (433) 287
 Permeability transition (422) 36; (426) 111; (427) 198; (428) 89; (434) 313; (439) 373
 Permeability transition pore (423) 275, 339
Peroxidase (422) 377; (428) 141; (431) 473; (433) 98; (437) 177
Peroxidase activity (441) 476
Peroxidized phospholipid (434) 437
Peroxin (429) 53; (431) 468
 Peroxisomal assembly (429) 53
 Peroxisomal disorder (429) 225
 Peroxisomal ghost (429) 53
 Peroxisome (422) 65; (425) 305; (426) 238; (433) 179
 Peroxisome biogenesis (431) 468
 Peroxisome proliferator (431) 476; (434) 394
 Peroxisome proliferator-activated receptor γ (434) 394
 Peroxy derivative (422) 1
 Peroxyl radical (426) 392; (427) 305; (434) 362
Peroxynitrite (422) 381; (423) 231, 297; (427) 171; (429) 347; (431) 107, 327; (433) 166; (436) 387; (437) 167; (439) 85
Peroxynitrite scavenging (426) 24
Pertussis toxin (436) 104; (441) 67
Pervanadate (434) 241
P-glycoprotein (439) 368
 pH dependence (421) 268; (427) 109
 Phage $\phi 29$ head-to-tail connector (430) 105
 Phage antibody (431) 448
 Phage biology (439) 59
 Phage display (429) 269; (430) 92; (431) 170; (433) 103; (440) 135, 213
 Phage Q β (431) 7
 Phage T5 tRNA^{Phe} (426) 135
 Phage-displayed random peptide library (441) 20
 Phagocyte (439) 97
 Phagocytosis (432) 40
 Phalloidin (430) 205
 Pharmacogenetics (424) 143
 Pharmacokinetics (428) 32; (429) 179
 Phase partitioning (436) 189
Phaseolus (421) 41
 PHAS-I (421) 120; (425) 179; (435) 105
 pH-dependent ligand binding (428) 171
Phenazine (428) 295
Phenobarbital (425) 293; (440) 343
 Phenocopy (437) 81
 Phenothiazine (422) 311
 Phenotype (438) 201
 Phenylacetate (426) 342
 Phenylalanine hydroxylase (422) 225
 Phenylalanyl-tRNA synthetase (427) 1
 Phenylpropanoid (422) 377; (437) 319
 Pheromone (424) 89
 p185^{HER2} oncoprotein (422) 129
 PHGPx (424) 22
Phlebia radiata (434) 362
 PhoB (441) 242
 Phoborhodopsin (434) 335
 Phorbol ester (427) 309; (433) 331; (440) 163; (441) 373
 Phorbol ester binding (437) 19
 Phorbol ester (422) 209
 Phosphatase (440) 183
 5-Phosphatase (432) 5
 Phosphatase activity (424) 225
 Phosphate specific transport (425) 151
 Phosphate transfer (431) 309
 Phosphatidate kinase (436) 377
 Phosphatidic acid (422) 247; (436) 377
 Phosphatidic acid phosphatase (427) 188
 Phosphatidyl inositol-3-kinase (425) 298
 Phosphatidylcholine (422) 108; (431) 443
 Phosphatidylcholine liposome (426) 314
 Phosphatidylcholine-dependent phospholipase C (431) 443
 Phosphatidylethanolamine (422) 108; (431) 75; (434) 101
 Phosphatidylglycerol (421) 15
 Phosphatidylglycerolphosphate (421) 15
 Phosphatidylinositol 3,4,5-trisphosphate (437) 221
 Phosphatidylinositol 3,4-bisphosphate (437) 221
 Phosphatidylinositol 3-kinase (421) 120; (422) 385; (425) 175, 179; (437) 221; (438) 49, 289; (441) 63, 297
 Phosphatidylinositol 4,5-bisphosphate (430) 231
 Phosphatidylinositol metabolism (437) 301
 Phosphatidylinositol transfer protein (431) 91
 Phosphatidylserine (429) 73; (431) 195
 Phosphodiesterase (436) 256, 323
 Phosphodiesterase I (421) 77
 Phosphoenolpyruvate (441) 195
 Phosphoenolpyruvate carboxykinase mRNA (423) 125
 Phosphoglycerate kinase (426) 57
 Phosphoinositide (429) 95
 Phosphoinositide 3-hydroxykinase (439) 147
 Phosphointermediate (426) 161
 Phospholamban (425) 509; (439) 224
 Phospholipase (423) 249; (432) 150
 Phospholipase A₁ (437) 193
 Phospholipase A₂ (434) 272, 295, 437; (437) 225; (440) 377
 Phospholipase C (422) 85; (425) 317; (427) 209, 371; (437) 297; (439) 66
 Phospholipase C $\beta 3$ (441) 261
 Phospholipase C- γ (422) 321; (429) 229
 Phospholipase C- $\gamma 1$ (423) 53
 Phospholipase D (422) 108, 247; (425) 199; (432) 50; (440) 287
 Phospholipase D activator (422) 108
 Phospholipase D1 (430) 231
 Phospholipid (431) 91; (436) 377; (440) 167; (441) 49
 Phospholipid base exchange reaction (434) 101
 Phospholipid membrane (438) 15

- Phospholipid monolayer (438) 279
 Phospholipid vesicle (426) 77
 Phosphoprotein phosphatase (435) 195
 Phosphorescence (422) 52
 Phosphorothioate (434) 77
 Phosphorothiolate (438) 195
 Phosphorylase kinase (430) 1; (436) 471
 Phosphorylated protein (441) 480
 Phosphorylation (421) 125; (422) 269; (425) 1, 166, 317; (429) 229, 289; (430) 222, 269; (432) 225; (433) 201; (434) 261; (435) 275; (436) 288; (437) 70; (440) 116, 297; (441) 132, 357, 392
 Phosphorylation sites (430) 312
 Phosphorylation-regulated nuclear localization sequence (436) 313
 Phosphotyrosine protein phosphatase (432) 145; (437) 263
 Phosphotyrosyl phosphatase (428) 157
 Photoacoustic spectroscopy (440) 59
 Photoaffinity labelling (423) 223; (440) 38; (441) 83, 186, 383
 Photoaffinity modification (433) 9
 Photobleaching process (425) 126
 Photocycle (427) 59; (434) 197
 Photo-damaged DNA (428) 269
 Photodynamic therapy (422) 151; (437) 5; (440) 19
 Photoelectric response (431) 219
 Photoenzyme mechanism (422) 19
 Photoinhibition (424) 267; (425) 97; (430) 288
 Photointermediate (436) 259
 Photolysis (426) 392
 Photomodified amino acid residue (433) 9
 Photomorphogenesis (439) 173
 Photoperiodic response (424) 53, 69
 (6-4) Photoproduct (429) 157
 Photoreactive dNTP derivative (441) 186
 Photoreactive nucleic acid (433) 9
 Photoreception (440) 116
 Photoreceptor (423) 117
 Photoreceptor cell (424) 149
 Photorhodopsin (426) 117
 Photosensitizer (440) 235
 Photosynthesis (423) 183; (424) 95; (426) 126; (428) 241; (429) 147; (431) 161; (434) 88; (440) 59
 Photosynthetic bacterium (422) 231
 Photosystem I (426) 201; (430) 288; (431) 219; (436) 339; (438) 5
 Photosystem II (423) 178; (424) 95, 146; (425) 97, 396; (426) 140, 347; (428) 123; (429) 49; (430) 261; (431) 161; (434) 88; (436) 434; (438) 5
 Photosystem II inhibition (428) 188
 Phototaxis (426) 117; (434) 335
 Phototransduction (422) 343; (425) 317; (440) 454
 Phototransduction cascade (439) 110
 Photovoltage response (427) 59; (434) 197
 pH-sensitive liposome (434) 351
 pH-sensitive release (421) 61
Phyllomedusa (429) 41
 Phylogenetic analysis (423) 143; (433) 108; (437) 201
 Phylogenetic classification (430) 116
 Phylogenetic tree (436) 323; (439) 66
 Phylogeny (422) 47; (425) 79; (427) 259; (440) 387
 Physical association (435) 49
 Phytanic acid (429) 119, 225
 Phytanoyl-CoA hydroxylase (429) 119
 Phytoalexin (431) 405
Phytophthora infestans (426) 131
Phytophthora sojae (431) 405; (433) 191
 Phytotoxin (433) 317
 PI3k (441) 15
Pichia pastoris (422) 23; (440) 356
 Pick's disease (433) 201
 pL_{CIN} protein (434) 28
 Picornavirus (422) 57
 Piericidin (431) 34
 Pig (424) 37
 Pigeon (424) 53
 Pigment biosynthesis (426) 201
 Pigment modification (434) 88
 p16^{INK4A} (427) 203
 p16^{INK4a} tumor suppressor (436) 41
 Pinopsin (424) 69
Pisum sativum (441) 59
 Pituitary (431) 333; (440) 361
 Pituitary AtT-20 cell (439) 341
 PKA (427) 103
 PKC (425) 166
 PKC inhibitor (432) 219
 PL/IM430 recognizable SERCA (423) 259
 Placenta (439) 163
 Placental villi vessel (422) 123
 Plakoglobin (433) 51
 Planar bilayer lipid membrane (429) 197
 Plant (424) 165; (432) 31; (437) 131; (438) 5
 Plant cDNA (433) 98
 Plant defense (435) 159
 Plant defensin (435) 159; (440) 302
 Plant expression system (427) 229
 Plant pathogen (435) 159
 Plant profilin (425) 251
 Plant subtilisin (437) 237
 Plant uncoupling mitochondrial protein (425) 213; (429) 403; (433) 237
 Plasma (422) 373; (438) 220
 Plasma membrane (421) 41; (424) 165; (426) 161; (427) 193
 Plasma membrane Ca²⁺ channel (424) 17
 Plasma proteolysis (441) 281
 Plasmacytoma (434) 209
 Plasmalogen (422) 247
 Plasmid (425) 161; (436) 55
 Plasmin (425) 448
 Plasminogen activator inhibitor-1 (423) 319; (431) 170
 Plasminogen-related growth factor (429) 1
Plasmodium falciparum (425) 407
Plasmodium vivax (423) 193
 Plasticity (428) 80
 Plastoquinone (429) 115
 Plastoquinone formation (428) 123
 Platelet (428) 200; (429) 327; (431) 19; (438) 225; (441) 357
 Platelet aggregation (422) 291; (427) 286; (435) 115
 Platelet response (436) 335
 Platelet-derived growth factor (422) 85; (429) 229
 Platelet-derived growth factor AB (427) 255
 Platelet-derived growth factor β receptor (422) 321
 Platelet-derived growth factor receptor (432) 145
 Platelet-derived growth factor-derived peptide (422) 213
Platymonas viridis (426) 161
 Pleckstrin domain (433) 312
Pleurotus ostreatus (438) 195
³¹P nuclear magnetic resonance (429) 157
 p38 MAP kinase (439) 75
 p38 MAPK (439) 287
 p38 mitogen-activated protein kinase (425) 195
 p42/44 mitogen-activated protein kinase cascade (428) 205
 Polarized transport (441) 170
poll independence (422) 243
 Poliovirus 2A^{pro} (435) 79
 Pollen allergen (424) 234; (434) 255
 Pollen fertility (441) 159
 Poly R-478 (439) 219
 Poly(ADP-ribose) polymerase (431) 465; (436) 288; (440) 1
 Poly(ADP-ribose) synthetase (424) 27
 Poly(ADP-ribosylation) (436) 288
 Polyamine (425) 371; (435) 251; (437) 34, 177, 233
 Polyamine oxidase (426) 62
 Polyamine synthesis (427) 119
 Polyclonal antibody (433) 103
 Polycyclic aromatic hydrocarbon (424) 271; (438) 206
 Poly(ethylene glycol) derivative (421) 61
 Polyglutamine (426) 229
 Polyglutamylolation (429) 399
 Polyglycylation (429) 399
 Polyketide synthase (433) 132
 Poly-lysine (440) 235
 Polymannosylated cystatin (427) 252
 Polymerase chain reaction (425) 249; (436) 372; (439) 263
 Polymorphism (421) 105; (422) 146; (433) 166; (440) 325
 Poly(*N*-isopropylacrylamide) (421) 61
 Polynucleotide:adenine glycosidase (428) 75
 Polynucleotide:adenosine glycosidase (425) 35
 Polyol pathway (441) 116
 Polyomavirus (423) 307

- Polypeptide conformation (435) 257
 Polyphenol (426) 24
 Polyprenol (434) 406
 Polyproline (441) 181
 Polypyrimidine tract-binding protein (425) 401
 Polysialic acid (426) 191
Polysphondylium (426) 145
 Poly-uridine sequence (421) 237
 Pore (439) 26
 Pore accessibility (429) 375
 Pore formation (425) 341
 Pore topology (435) 69
 Porestructure (430) 370
 Porin (426) 97; (432) 117
 Porin-pore (430) 327
Porphyromonas gingivalis (435) 45
Porphyromonas gingivalis fimbria (422) 205
 Portal particle (430) 283
Portulaca oleracea (438) 236
 Position effect variegation (425) 513
 Positive autoregulation (437) 39
 Positive selection (440) 337
 Positron emission tomography (427) 286
 Postreplication repair (428) 23
 Postsynaptic density (437) 304
 Posttranslational control (432) 207
 Posttranslational modification (424) 89; (429) 399; (437) 34
 Posttranslational processing (425) 286
 Potassium (432) 31
 Potassium channel (422) 307; (423) 205; (429) 104, 390; (431) 375, 461; (434) 177; (435) 69; (438) 171; (439) 115; (441) 6
 Potassium channel toxin (427) 149
 Potassium current (434) 236
 Potato tuber (426) 131
 Potato virus X (441) 379
 Potyvirus (427) 229
Poxn (437) 75, 81
 PP7 (440) 147
 Prasterone (424) 173
 Precursor (430) 55; (435) 149; (441) 467
 Precursor convertase 2 (428) 37
 Precursor processing (421) 12
 Precursor protein (440) 175; (441) 59
 P680⁺ reduction (429) 49
 Preimplantational lethality (441) 261
 Prenatal muscular development (422) 160
 Preprohormone (439) 31
 Preprotein translocation (436) 277
 PreS2 (441) 407
 Presenilin-1 (433) 73
 Pre-tRNA processing (428) 161; (431) 138
Prevotella intermedia (428) 157
 p70 ribosomal S6 kinase (421) 120; (425) 179
 Primary culture (425) 453
 Primary sequence (427) 5
 Primary structure (425) 286; (426) 62; (428) 105
 Primer extension (423) 189
 Proadrenomedullin N-terminal 20 peptide (432) 37
 Processing (428) 37
 Processing protease (430) 261; (434) 155
 Processive transcription (427) 337
 Processivity (436) 35
Prochlorococcus marinus (431) 138
Prochlorothrix hollandica (428) 161
 Procoagulant activity (429) 347
 Procyanidin (431) 315
 Product entrapment (433) 191
 Proenzyme activation (434) 155
 Proflavin (425) 229
 Programmed cell death (427) 198; (429) 134; (431) 195; (437) 131; (440) 1
 Progressive supranuclear palsy (433) 201
 Prohormone (428) 37
 Prohormone processing (436) 61
 Proinsulin (436) 361
 Prolactin (431) 333; (438) 119
 Prolactin receptor (441) 287
 Prolamellar body (422) 252
 Proliferating cell nuclear antigen (428) 23; (429) 183
 Proliferation (422) 15; (428) 100; (431) 224; (433) 265; (438) 85
 Proliferative cell nuclear antigen (426) 305
 Proline (432) 202
 Proline dependent protein kinase (426) 248
 Proline-rich protein (422) 400
 Promoter (421) 105, 152; (423) 117, 324; (430) 171, 307; (431) 268, 333; (432) 65; (434) 51; (436) 99; (437) 61; (440) 33, 332
 Promoter analysis AP-1 (427) 129
 Promoter regulation (426) 271
 Proopiomelanocortin (428) 37
 Prop-1 (437) 216
 β -Propeller (429) 123
 Proprotein cleavage (438) 306
 Prostacyclin (424) 211
 Prostaglandin (434) 245; (437) 225; (438) 159; (440) 76
 8-iso-Prostaglandin F_{2 α} (428) 32
 Prostaglandin biosynthesis (430) 154
 Prostaglandin H synthase (430) 154
 Prostate (434) 66
 Prostate cancer (427) 5
 Prostatein (432) 163
 Prostatic carcinoma (423) 19
 Protease (423) 286; (431) 279; (433) 1, 251; (435) 61
 Protease inhibitor (426) 41; (435) 233
 Protease Lon (422) 218; (432) 179
 Protease regulation (441) 419
 Proteasome (423) 149; (425) 87; (430) 269; (433) 47; (434) 357; (439) 173; (440) 399
 Proteasome enzyme (422) 129
 Proteasome inhibitor (424) 136
 Protegrin (421) 263
 Protein (437) 101; (440) 38
 α + β Protein (440) 153
 α / β Protein (440) 153
 14-3-3 protein (430) 381; (435) 110
 Protein A (433) 83
 Protein activator (422) 43
 Protein aggregation (421) 273
 Protein C (432) 94
 Protein C inhibitor (429) 263
 Protein carbonyl (437) 24
 Protein classification (437) 246
 Protein complex (439) 173
 Protein conformation and quaternary structure (433) 279
 Protein cross-link (430) 59
 Protein crystallography (430) 1; (441) 247
 Protein degradation (429) 162; (434) 357; (439) 235
 Protein denaturation (432) 228
 Protein design (425) 101; (429) 99; (432) 45
 Protein disulfide isomerase (425) 382; (426) 107; (431) 322
 Protein domain (430) 126, 327
 Protein dynamics (425) 1
 Protein engineering (424) 271; (425) 385; (428) 68; (433) 78; (434) 23; (437) 149, 241; (441) 313
 Protein evolution (430) 150; (433) 108; (439) 281
 Protein expression (423) 159; (425) 101; (426) 297; (427) 79; (431) 29
 Protein fatty acylation (436) 85
 Protein flexibility (430) 105
 Protein folding (423) 110, 265; (425) 382, 385; (427) 51; (428) 255; (429) 78, 99, 162; (430) 73, 150, 197, 275; (434) 93; (440) 93; (441) 215
 Protein folding disease (441) 271
 Protein immobilization (426) 107
 Protein import (441) 59
 Protein interaction (425) 485
 Protein kinase (421) 115; (422) 193; (428) 177; (430) 1, 45, 78; (431) 45; (435) 101; (439) 97; (441) 318
 Protein kinase A (PKA) (425) 24; (428) 183; (436) 28, 471; (441) 205
 Protein kinase activity (426) 386
 Protein kinase B (425) 472
 Protein kinase C (421) 50, 203; (422) 123; (423) 31; (424) 84; (425) 317; (427) 371; (429) 73, 229; (431) 415; (434) 261; (436) 92, 461; (437) 19, 158; (438) 32, 321; (439) 66; (440) 25, 163; (441) 63, 205, 373
 Protein kinase C δ (421) 165
 Protein kinase C inhibition (431) 465
 Protein kinase C inhibitor (421) 50, 165
 Protein kinase C isoenzyme (421) 165
 Protein kinase C μ (421) 165

- Protein kinase C ζ (421) 165
 Protein kinase C- δ (438) 225
 Protein kinase CK2 (434) 115; (437) 211; (441) 29
 Protein kinase C μ (427) 209
 Protein kinase D (437) 19
 Protein kinase G (440) 218
 Protein kinase II (429) 229
 Protein kinase inhibitor (422) 363; (426) 93
 Protein kinase PKR (436) 343
 Protein maturation (424) 149
 Protein modification (423) 61
 Protein module (426) 71
 Protein oligomerization (430) 197
 Protein oxidation (422) 381; (440) 399
 Protein penetration (438) 279
 Protein phosphatase (428) 177; (430) 78; (431) 357; (433) 294; (435) 125, 241; (437) 229; (438) 131; (441) 432
 Protein phosphatase I (438) 141
 Protein phosphatase I regulatory subunit (439) 224
 Protein phosphatase 2A (426) 248; (430) 312
 Protein phosphatase 2C (421) 185; (424) 100; (430) 222; (431) 121; (437) 172
 Protein phosphorylation (421) 55; (425) 112; (428) 23, 205; (430) 1, 45, 317; (431) 121; (435) 125, 241; (437) 229; (438) 32; (441) 29
 Protein polymer (434) 215
 Protein processing (427) 367; (429) 337
 Protein S (433) 28
 Protein scaffold (427) 51
 Protein secondary structure (434) 93
 Protein secretion (430) 385; (431) 75
 Protein sequence (439) 185
 Protein Ser/Thr phosphatase (440) 147
 Protein solubility (439) 197
 Protein sorting (439) 341
 Protein stability (421) 273; (422) 225; (427) 357; (429) 99
 Protein structure (421) 175, 203; (422) 225; (423) 291; (427) 85, 153; (429) 78; (431) 250; (432) 128; (433) 153; (434) 300
 Protein structure and stability (439) 21
 Protein structure modelling (437) 246
 Protein structure prediction (423) 281
 Protein superfold (423) 281
 Protein synthesis (423) 125, 351; (427) 119; (428) 59; (430) 95
 Protein synthesis inhibition (428) 75
 Protein translocation (423) 183; (428) 241; (435) 183
 Protein transport (423) 61; (434) 425
 Protein tyrosine kinase (421) 45; (435) 55, 275
 Protein tyrosine phosphatase (440) 111
 Protein tyrosine phosphatase 1C (422) 321
 Protein tyrosine phosphatase 2C (422) 321
 Protein tyrosine phosphorylation (422) 85
 Protein tyrosine phosphorylation/dephosphorylation (424) 113
 Protein:protein interaction (435) 110
 Proteinase (440) 282; (441) 467
 Proteinase inhibitor (421) 217; (422) 113; (434) 401
 Proteinase-activated receptor (435) 45
 Protein-DNA recognition (425) 14
 Protein-lipid interaction (431) 75
 Protein-membrane interaction (434) 42
 Protein-nucleic acid interaction (429) 157
 Protein-nucleic acid recognition (427) 1; (441) 186
 Protein-protein complex (424) 109
 Protein-protein interaction (424) 63; (425) 401; (429) 9; (430) 317; (434) 1; (435) 84; (439) 71, 173; (440) 135
 Protein-protein interaction motif (438) 21
 Proteoglycan (435) 169; (441) 235
 Proteolipid (431) 419
 Proteoliposome (431) 219
 Proteolysis (421) 89; (422) 179; (426) 71; (427) 367; (428) 7; (430) 145; (433) 1; (435) 169; (437) 187; (440) 393
 Proteolytic domain (432) 179
 Proteolytic fragment (437) 293
 Proteolytic processing (435) 225; (440) 239
 Proteome profiling (430) 64
 Proteomics (430) 64; (436) 189
Proteus mirabilis (423) 122
 Protochlorophyllide reductase (422) 19
 Proton channel (423) 329
 Proton coupling (425) 222
 Proton efflux (435) 241
 Proton exchange (425) 222; (426) 325
 α -Proton exchange (427) 74
 Proton gradient (440) 59
 Proton lateral conductance (429) 197
 Proton pump (439) 1
 Proton pumping (426) 217; (433) 93; (434) 17
 Proton transfer (431) 291
 Proton translocation (429) 201
 Proton transport (434) 197; (440) 258
 Proton-gated cation channel (433) 257
 Protoplast (437) 131
 Protozoon (437) 153
 PS1 (436) 163
psbA (436) 434
psbA gene (436) 483
psbD (426) 140
psbD gene (436) 483
P-selectin (441) 463
Pseudo-gene (426) 86
Pseudomonas aeruginosa LPS (437) 65
Pseudomonas corrugata (433) 317
Pseudomonas fluorescens (429) 312
Psychotropic drug (424) 173
Psychrophile (439) 281
p53 tumor suppressor (438) 258
P-type ATPase (435) 178; (436) 223
P-type pump (431) 309
PuF (423) 235
Pulse radiolysis (436) 239
Pulsed field gel electrophoresis (432) 158
Pumpkin (430) 251
pur cluster (421) 221; (437) 197
pur regulation (421) 221
Pur10 (437) 197
Purification (422) 391; (426) 217; (428) 85; (429) 194; (433) 233; (440) 239; (441) 369
Purinergic receptor (430) 78
Purinoceptor (434) 61; (436) 104
Puromycin biosynthesis (421) 221; (437) 197
Purple bacterium (438) 5
Purple membrane (430) 105
Purple photosynthetic bacterium (432) 27
Putative volume (or osmo)-sensitive Cl⁻ channel (434) 28
Putrescine (435) 251
p21/WAF1 (437) 61
P2X (434) 61
P2X receptor (425) 19
P2Y (436) 104
Pycnogenol (431) 315
Pygmy (423) 143
P2Y1 purinoceptor (422) 291
P_{2Y}-receptor (430) 209
Pyridoxal phosphate (433) 279
Pyridoxal-5'-phosphate (427) 74
Pyrimidine nucleotide (422) 170
Pyrimidine-rich tract (434) 8
Pyrimidinoceptor (439) 107
Pyrococcus (434) 372
Pyrococcus abyssi (431) 279
Pyrococcus furiosus (440) 311
Pyrophosphatase (439) 263
Pyruvate decarboxylase (441) 404
Pyruvate dehydrogenase (437) 273
Pyruvate dehydrogenase complex (425) 411
Pyruvate kinase gene (431) 180
P2Z receptor (439) 26
- # Q
- Q_B⁻/S_{2,3} charge recombination (436) 483
 Q-cycle (426) 126

Q_o site (431) 423
 Quantitative criterion (440) 153
 Quantitative PCR (431) 437
 Quantitative structure activity relationship (427) 325
 Quasielastic incoherent neutron scattering (433) 321
 Quaternary association (425) 57
 Quaternary structure (425) 517
 Quercetin (426) 331; (430) 405
 Quercetin 4'-glucoside (436) 71
 Queuine (431) 427
 Quinol oxidase (432) 109
 Quinone (428) 295
 o-Quinone (437) 167
 Quorum sensing (424) 89

R

Rab5 (441) 373
 Rab7 (425) 460
 Rabbit (439) 89
 Rabbit muscle (439) 133
 Rabbit reticulocyte lysate system (426) 33
 Rack mechanism (440) 93
 Radical intermediate (422) 19
 Radiobiology (427) 15
 γ-Radiolysis (435) 153
 Raf-1 (441) 34, 322
 RAF9 cell-derived N-linked glycopeptide (421) 169
 Rainbow trout (434) 409
 RalA (430) 231
 Ran (433) 185
 Ran pathway (427) 330
Rana esculenta (430) 130
 Ran-binding protein (427) 330
 RanBP1 (427) 330
 Random coil conformation (440) 365
 Random sequence (421) 147
 RAP30 (435) 191
 RAP74 (435) 191
 5' Rapid amplification of cDNA ends (440) 33
 Rapid turnover (424) 267
 Rapsyn (437) 29
 Ras (426) 205; (434) 219; (440) 231; (441) 322
ras family (429) 359
 Ras protein (426) 319; (438) 289
 Ras-binding domain (441) 413
 Ras-related guanosine triphosphatase (427) 330
 Ras-specific GTPase-activating protein (441) 127
 Rat (423) 254, 302; (428) 89, 286; (431) 167; (435) 35; (438) 177
 Rat adipocyte (425) 298
 Rat brain (422) 113; (429) 143, 167; (431) 55
 Rat brain synaptosome (439) 246
 Rat connexin36 cDNA (428) 27
 Rat egg (431) 415
 Rat epididymal adipose tissue (422) 43
 Rat heart mitochondria (424) 155
 Rat liver (421) 77; (425) 436; (426) 263; (434) 101; (436) 424; (437) 211; (441) 34
 Rat mesangial cell (422) 15; (437) 225
 Rat proliferating cell nuclear antigen promoter (441) 200
 Rat-1 fibroblast (422) 141
 Rate constant (430) 377; (439) 85
 RAW 264.7 cell (426) 33
 Raw3 (421) 259
 Rb kinase (425) 465
 RBCC protein (435) 11
 RCK gene (429) 279
 rck/p54 (429) 279
 R-domain mutation (439) 121
 Reaction center (422) 231; (431) 161; (434) 88
 Reaction center-light harvesting 1 complex (425) 505
 Reactive histidine (427) 362
 Reactive nitrogen species (431) 315
 Reactive oligonucleotide synthesis (431) 453
 Reactive oxygen intermediate (429) 67; (441) 297
 Reactive oxygen species (423) 275; (425) 209, 213; (430) 338; (435) 215; (440) 343
 Real-time observation (425) 134
 RecA (425) 45
 Receptor (423) 334; (425) 137; (426) 243; (427) 320; (428) 17; (431) 400; (435) 187; (436) 46; (441) 59, 275
 α₃β₁ Receptor (433) 89
 Receptor activation (430) 126
 Receptor activity modifying protein 1 (441) 6
 Receptor cloning (440) 188
 Receptor clustering (430) 88; (437) 304
 Receptor dimer (441) 383
 Receptor dimerization (438) 119
 Receptor downregulation (434) 37
 Receptor expression (428) 147; (441) 366
 Receptor oligomerization (429) 1
 Receptor phosphorylation (422) 141
 Receptor specificity (434) 83
 Receptor state (441) 209
 Receptor tyrosine kinase (424) 285
 Receptor-associated protein (429) 27
 Receptor-mediated targeting (434) 351
 Reciprocal regulation (428) 205
 Recognition helix (432) 1
 Recombinant (422) 137; (431) 400
 Recombinant enzyme (439) 263
 Recombinant glycoprotein (436) 11
 Recombinant lactoperoxidase (441) 476
 Recombinant pharmaceutical (441) 177
 Recombinant production (430) 217
 Recombinant proSP-B (423) 1
 Recombinant protein (426) 71; (434) 255; (435) 169; (436) 67; (438) 267
 Recombination (425) 45
 Recombination junction (441) 451
 Reconstitution (426) 217; (427) 64
 Recoverin (440) 116
 Red blood cell (433) 157
 Red blood cell maturation (438) 315
 Red cell membrane perturbation (427) 21
 Redox (425) 52
 Redox cycling (436) 144
 Redox potential (432) 55
 Redox process (430) 191
 Redox property (429) 295
 Redox signalling (424) 239
 Redox switch (431) 297
 Reduced glutathione (431) 473
 Reducing end (432) 113
 Reduction potential (440) 311
 Refolding (432) 21
 Refsum disease (429) 119
 Regression (440) 403
 Regulated secretion (439) 341
 Regulation (421) 65; (423) 93; (427) 291; (428) 1; (436) 466
 Regulation of photosynthetic genes expression (436) 483
 Relaxation (429) 356
 Renal failure (440) 377
 Renal tubular secretion (438) 321
 Renin (422) 395
 REP-1 (425) 460
 Repellent (438) 236
 Replication initiation protein (439) 59
repN (422) 243
 Repression (428) 1; (440) 430
 Repressor (432) 141
 Residual dipolar coupling (436) 128
 Resolution (430) 12
 Respiration (421) 213
 Respiratory acidosis (430) 343
 Respiratory chain (422) 240; (439) 329
 Respiratory proton pump (440) 223
 Response regulator (425) 1; (429) 259; (436) 76; (441) 242
 Restriction fragment length polymorphism (437) 201
 Restriction modification (438) 66

Resveratrol (421) 277
 Retaining mechanism (440) 440
 Retina (423) 117, 133
 Retinal analog (434) 335
 Retinal connexin (428) 27
 Retinal dehydrogenase (426) 260
 Retinal pigment epithelium (423) 133
 Retinal rod cell (440) 116
 Retinal structure (422) 201
 Retinoblastoma protein (430) 59
 Retinoblastoma susceptibility gene product RB (421) 89
 Retinoic acid (422) 103; (426) 260, 362; (428) 135; (429) 254; (432) 123
 Retinoid metabolism (428) 135
 Retinoid receptor-related testis-associated receptor (439) 208
 Retinol (426) 362
 Retinol dehydrogenase (428) 135
 Retinol-binding protein (427) 213
 Retrograde transport (435) 237
 Retrotransposon (428) 1
 Retrovirus (431) 301
 Reverse transcriptase polymerase chain reaction (441) 43
 Reverse transcription (430) 165
 Reverse transcription competitive-polymerase chain reaction (435) 119
 Reverse transcription-polymerase chain reaction (421) 259; (430) 307; (433) 312; (436) 283
 Rex (423) 25; (434) 367
 RGD (427) 286
 RGD motif (429) 239
 RGL (441) 413
 RGS protein (422) 359; (438) 285
 RGS16 (422) 359
 Rhabditid (429) 4
 Rhabdovirus (429) 407
 RHAMM (440) 444
 Rho (426) 205; (440) 183
 ρ^0 (425) 259
 Rho GTPase (441) 121
 Rho guanosine triphosphatase (422) 269
 Rho protein (440) 287
Rhodobacter capsulatus (431) 291
Rhodobacter capsulatus mutant (431) 34
Rhodobacter sphaeroides (440) 409
Rhodobium marinum (432) 27
Rhodococcus erythropolis (433) 58; (438) 293
Rhodopseudomonas viridis (425) 505
 Rhodopsin (422) 201; (423) 117; (424) 53, 149; (425) 126, 317; (436) 304; (439) 110; (440) 116
 Rhodopsin kinase (440) 116
 Rhomboid (429) 337
 Riboflavin (428) 245
 Ribonuclease (428) 57; (431) 250; (434) 377; (437) 149
 Ribonuclease A (430) 275
 Ribonuclease H (421) 23
 Ribonucleolytic activity (424) 46
 Ribonucleoprotein (425) 217
 Ribonucleoside (433) 265
 Ribonucleotide reductase (421) 277
 Ribosomal activity (421) 249
 Ribosomal membrane attachment site (441) 1
 Ribosomal protein S1 (436) 213
 Ribosomal reconstitution (421) 249
 Ribosomal RNA (422) 47
 Ribosomal structure (421) 249
 Ribosomal subunit (425) 40
 Ribosome (423) 347; (434) 205, 417; (436) 343
 Ribosome-inactivating protein (424) 46; (425) 35; (428) 75; (431) 259, 367; (437) 241
 Ribotope (422) 57
 Ribotoxin (424) 46
 Ribozyme (428) 161; (431) 138; (433) 301; (436) 99, 233
 Ribozyme catalysis (439) 312
 Ribozyme folding (439) 312
 Rice (434) 382
 Rice (*Oryza sativa*) (423) 81; (428) 259; (437) 127
 Ricin (431) 200, 367
 Rieske (432) 99; (440) 409

Rifampicin (440) 172
 Ring expansion reaction (438) 111
 RING-H2 (436) 283
 RNA (425) 217; (429) 21; (433) 301
 RNA aptamer (441) 322
 RNA binding (434) 121
 RNA binding protein (421) 2
 RNA blot hybridization (422) 354
 RNA degradation (432) 70
 RNA editing (430) 257; (431) 457; (434) 121; (441) 159
 RNA localization (425) 157
 RNA polyadenylation (432) 70
 RNA polymerase (425) 91
 RNA polymerase (*Escherichia coli*) (440) 172
 RNA polymerase I (423) 239
 RNA polymerase II (427) 236, 241
 RNA recognition (431) 427
 RNA splicing (436) 169
 RNA stability (436) 382
 RNA structure (427) 315
 RNA structure probing (427) 315
 RNA-DNA hybrid (421) 23
 RNA-protein covalent complex (422) 57
 RNA-RNA interaction (429) 211
 RNase A (437) 183
 RNase H (425) 91
 RNase P (428) 161; (431) 138; (433) 269
 Rod domain (425) 329
 Rodent (425) 185
 Roe-herring (427) 252
 ROS (431) 149
 Rosacea (440) 337
 Rose bengal (437) 158
 ROS-GC1 (427) 69
 Rossmann fold domain (423) 105
 Rotation (426) 301
 Rotation mechanism (427) 64
 Rotavirus (427) 183
 Rotenone (431) 34
 rpd3 (436) 193
 RPE65 (423) 133; (440) 195
 R-Ras (437) 112
 rSkM1 (427) 5
 Rubredoxin (429) 295; (440) 311
 Ruberythrin (429) 295
 Ryanodine receptor (423) 367; (429) 317; (431) 59; (434) 346
 Ryanodine receptor type 3 (423) 367
 Ryanodine receptor, type 1 and type 3 (422) 160

S

S100 (421) 175; (422) 235
Saccharomyces cerevisiae (421) 23, 37; (422) 170; (423) 49, 149; (424) 127; (425) 323, 391, 475; (428) 229, 245; (429) 162, 194; (431) 241, 297; (433) 185; (434) 71, 219, 377, 406; (435) 89, 245; (440) 89, 325
 Salicylic acid (437) 319
 Salmon (431) 231
 Salt bridge formation (429) 417
 Salt stress (425) 323
 Salt tolerance (432) 59; (435) 241
 Sam68 (437) 29
Sambucus (425) 35
Sambucus nigra (428) 75
Sambucus nigra agglutinin (441) 191
 SAPK2/p38 (441) 15
 Saponin-permeabilized fiber (422) 33
 Saposin-like protein (423) 1
 Sarco(endo)plasmic reticulum (427) 349
 Sarco-endoplasmic reticulum Ca^{2+} -ATPase pump (439) 127
 Sarcoglycan (422) 27
 Sarcolemma (427) 279
 Sarcoplasmic reticulum (425) 509; (431) 59; (432) 191; (440) 218

- Sarcoplasmic reticulum Ca^{2+} -ATPase (440) 218
 Sarcosine oxidase (438) 263
 Sarcospan (427) 279
 Satellite sequence (432) 77
 Sauvagine (435) 187
 SB 203580 (426) 93; (427) 271; (429) 249
 Scaffold protein (424) 63
 Scanning calorimetry (425) 57
 Scanning probe microscopy (430) 112; (436) 179
 Scatchard analysis (427) 46
 Scatter factor (436) 111
 ScFv fragment (422) 259; (427) 357; (432) 45; (439) 197
Schistocerca gregaria (422) 74
 Schizophrenia (422) 146
Schizosaccharomyces pombe (422) 321; (435) 241; (440) 430
 Schwartz surface (422) 252
 Scorpion (431) 375; (441) 387
 Scorpion toxin (429) 381; (439) 246
 SCR (432) 103
 Scutellar epithelium (428) 275
 SDF-1 α (432) 73
 SDZ PSC 833 (431) 185
 Sea anemone (427) 149
 Sea animal (434) 201
 Sea urchin egg (441) 121
 Sea water (434) 201
 Sec (424) 105
 Sec61 complex (441) 1
 Sec7 domain (433) 312
 SecA (436) 277
 Sec-independent (431) 339; (434) 425
 Secologanin (434) 413
 Second messenger (433) 23
 Second virial coefficient (426) 57
 Secondary structure (423) 1; (426) 347; (429) 4
 Secondary structure content (440) 153
 Second-site revertant (430) 197
 γ -Secretase (427) 367
 Secretin analogue (424) 207
 Secretin receptor (424) 207
 Secretion (427) 213; (431) 91; (441) 177
 Secretory phospholipase A_2 (434) 437
 Secretory vesicle (440) 258
 SecY (423) 66
 SecYEG (436) 277
 Seed protein (434) 215
 Seed storage protein (437) 87
 SELB (429) 189
 Selectin (440) 307
 Selection strategy (431) 448
 Selective inhibition (421) 80
 Selectively infective phage (440) 135
 Selenium (429) 189; (438) 81
 Selenium-binding protein (430) 343
 Selenocysteine (429) 189; (439) 241
 Self-aggregation (440) 67
 Self-assembly (427) 267
 Self-association (421) 7; (438) 21
 Self-incompatibility (440) 337
 Self-transmissible plasmid (426) 21
 Semi-empirical quantum mechanics (439) 101
 Seminal vesicle (429) 263
 Semiquinone radical (428) 43
 Semotiadil (441) 83
 Sendai virus (423) 286; (425) 105
 Senescence (434) 409; (438) 245; (439) 143
 Senile plaque (425) 225
 Sensor (438) 231
 Sensory rhodopsin (426) 117
 Septic shock (424) 253; (438) 159
 Sequence (423) 367; (438) 301; (440) 325
 Sequence analysis (426) 1, 7; (427) 79; (441) 181
 Sequence annotation (430) 28
 Sequence homology (433) 41
 Sequence logo (430) 45
 Sequence similarity (426) 291
 Sequence specificity (438) 66
 Sequentiality (423) 343
 Ser-262 (436) 471
 SERCA (427) 349
 SERCA pump (429) 44
 SERCA3b isoform (423) 259
 D-Serine (434) 231
 Serine kinase (436) 288
 Serine phosphorylation (422) 43
 Serine protease (425) 131, 448; (440) 361
 Serine protease inhibitor (422) 74; (429) 263
 Serine proteinase (437) 237
 Serotonin (422) 85
 Serotonin 1A receptor (438) 96
 Serotonin receptor (424) 63
 Serotonin transporter (423) 376
 Serpin (426) 41; (436) 267; (440) 361
 Serum phospholipase A_2 inhibitor (429) 385
 Serum responsiveness (441) 200
 Seryl-tRNA synthetase (427) 315
 Severing (425) 134
 Sf9 cell (441) 49
 (2S)-flavanone 2-hydroxylase (431) 287
 Shaker K^+ channel (429) 375
 SHBG-like region (433) 28
 β -Sheet (436) 445
 Shine-Dalgarno sequence (430) 257
 Short-chain dehydrogenase/reductase (441) 25
 Shrimp (436) 395; (441) 397
 Sialidase (428) 115
 Sialyl-Lewis X (429) 274; (440) 307
 Sialyltransferase (427) 91; (441) 177, 191
 Side chain (431) 241
 Side chain interaction (429) 99
 Sideroblastic anemia (441) 266
 Sigma factor (440) 172
 Signal assignment (425) 345
 Signal peptidase (426) 291
 Signal peptide (423) 66; (424) 105; (431) 339
 Signal sequence trap (421) 252
 Signal transducer (441) 231
 Signal transducer and activator of transcription (428) 250
 Signal transduction (421) 32, 55, 185; (422) 193; (424) 17, 100, 216, 243; (425) 175, 199, 323, 377; (426) 117, 381; (427) 157, 209, 271, 320; (429) 365; (430) 381; (431) 405; (432) 145; (434) 83, 283; (435) 55; (436) 76, 115, 155, 271; (437) 301; (438) 119, 289; (439) 71, 97; (440) 183; (441) 67, 205, 242, 261, 331, 366, 413, 432
 Signaling (440) 255; (441) 275, 357
 Silencer (436) 163
 Silver (436) 223
 Silymarin (440) 8
 Single chain antibody fragment (441) 379
 Single chain Fv (425) 479
 Single chain Fv fragment (441) 407
 Single molecule (426) 301; (430) 23
 Single molecule spectroscopy (437) 251
 Single-chain antibody (441) 307, 458
 Single-chain variable fragment (423) 159; (437) 75
 Single-channel conductance (433) 89
 Single-particle tracking (430) 88
 Single-stranded DNA binding protein (430) 197
 Singlet oxygen (432) 9; (437) 158; (439) 329
 Site directed mutagenesis (426) 367; (429) 417; (439) 157
 Site specificity (431) 131
 Site-directed (441) 467
 Site-directed mutagenesis (421) 100; (422) 218; (423) 122, 167; (424) 49; (425) 407, 517; (426) 309; (427) 377; (428) 57; (430) 222, 333, 370; (432) 31; (433) 279; (434) 322; (435) 16, 169; (436) 119, 434; (437) 91, 273; (438) 66, 215; (440) 203, 291; (441) 195, 247, 476
 Size exclusion chromatography (431) 322
 Sjögren-Larsson syndrome (429) 225
 Skeletal muscle (423) 173; (424) 79; (425) 472; (429) 317; (431) 71, 263, 371; (434) 346; (436) 415; (439) 89, 357; (440) 41, 348
 Skeletal muscle contraction (422) 160
 Skin (422) 403
 35- μs kinetics (429) 49
 Skin-type (426) 121
 Slipped loop structure (422) 265
 Slow inactivation (429) 375
 Smad (430) 201; (434) 83

- Small angle neutron scattering (426) 57
 Small GTP binding protein (425) 460
 Small heat-shock protein (430) 246; (433) 228
 Small intestine (434) 272
 Small-angle X-ray scattering (421) 147; (430) 275; (436) 277
 Smoking (441) 292
 Smooth muscle (423) 93; (427) 271; (430) 266; (440) 167
 Smooth muscle cell (425) 123; (434) 183
 Smooth muscle myosin heavy chain-1 (425) 123
 Snake venom (436) 256
 Snake venom phospholipase A₂ isozyme (429) 385
 SNAP receptor (423) 113; (435) 211
 SNARE (437) 255
 SNARE hypothesis (435) 84
 SNARE protein (435) 89
 sod2 (424) 1
 Sodium (432) 31
 Sodium ATPase (426) 161
 Sodium channel (423) 5; (439) 246; (440) 302
 Sodium current (434) 236
 Sodium fluoride (422) 185
 Sodium ion (423) 329; (434) 325
 Sodium ion translocation (425) 204
 Sodium pump (426) 161
 Sodium transport (439) 271
 Sodium/potassium adenosine triphosphatase (426) 297
 Sodium/proton antiporter (439) 271
 Sodium-calcium exchange (422) 247
Solanum tuberosum (429) 147; (440) 175
 Solid phase peptide synthesis (429) 31
 Soluble CD146 (421) 12
 Soluble galactose binding lectin (430) 307
 Soluble *N*-ethylmaleimide-sensitive factor attachment protein (437) 255
 Soluble NSF attachment protein (435) 211
 Soluble NSF attachment protein receptor (436) 1
 Soluble receptor (434) 283
 Solution structure (428) 269; (441) 413
 Somatostatin (425) 137; (440) 33
 Somatostatin receptor 2 (428) 165; (440) 107
SON1 (423) 149
 Sortilin (429) 27
 Sorting (429) 27
 SOX (438) 311
SOX10 (432) 168
 Soybean lipoxygenase (431) 433
 Sp1 (437) 313
 Spacer (434) 8
 Sparteine (436) 251
 SPC4 (434) 155
 Species-specific phenotype (426) 1
 Specific expression (433) 312
 Specificity (421) 32; (423) 159; (427) 115
 Spectrophotometry (425) 415; (431) 476
 Sperm (422) 296; (431) 1; (437) 297; (438) 177
 Sperm cytosol (423) 357
 Sperm patch-clamp recording (426) 47
 Spermatidhesin PSP-II (431) 273
 Spermatogenesis (421) 224; (436) 382; (439) 208
 Spermatozoon (425) 75
 Spermine (422) 36; (437) 233
 S phase (423) 39
 Sphingomyelin (426) 102; (431) 443; (440) 167
 Sphingomyelin hydrolysis (436) 6
 Sphingomyelin synthase (431) 443
 Sphingomyelinase (423) 249; (431) 443; (440) 163
 Sphingosine (425) 61
 Spin trapping (424) 253; (431) 285
 Spinach (435) 101, 110, 159
 Spinach thylakoid (434) 193
Spinacia oleracea (424) 109
 Spin-trapping (427) 341
 Spitz (429) 337
 Splice variant (422) 279; (427) 220; (432) 5; (438) 171
 Splicing (426) 71; (435) 65
 Split hand/split foot (422) 27
 Spo0F (425) 1
Spodoptera frugiperda (440) 243
 Sponge (434) 201; (436) 323; (439) 66
 Sponge protein (431) 85
 SPP1 (439) 59
 SPR analysis (423) 159
 Squalene hydroperoxide (432) 9
 Squalene synthase (434) 406
 SR 141716A (425) 419
 SR 144528 (425) 419
 Src (432) 225
³⁴S reconstituted enzyme (440) 226
 5S ribosomal RNA (421) 249
 5S rRNA (429) 211
 18S rRNA (429) 4
 S-RNase (440) 337
 Srp1p (433) 185
 SRY-related (438) 311
 Stability (423) 319; (425) 385, 517; (431) 161
Staphylococcus aureus (432) 40; (436) 202
Staphylococcus aureus α-toxin (440) 287
Staphylococcus epidermidis (424) 89
 Starch binding (439) 185
 Starvation (434) 101
 Stat3β (441) 141
 STAT5 (440) 41
 S₂ state (424) 146
 State change (434) 193
 Stathmin (421) 55
 Statistical analysis (440) 351
 Ste12 (429) 83
 Stepwise folding (437) 246
 Stereochemistry (440) 440
 Stereoselectivity (434) 77; (441) 153
 Stereospecificity (427) 74; (432) 202
 Steroidogenic enzyme (422) 10
 Sterol (437) 142
 Stimulant (438) 236
 Stimulus-secretion coupling (421) 115
 Stoma (424) 100
 Stomate (428) 177
 Stopped-flow kinetics (433) 279
 Store-operated Ca²⁺ entry (424) 33
 Store-operated cation channel (437) 101
 Store-operated channel (429) 61
Streptomyces (421) 221; (437) 197
Streptomyces lividans (423) 205
Streptomyces sp. (421) 243
 Streptozotocin (440) 450
 Streptozotocin-induced diabetes (436) 185
 Stress (434) 33; (441) 215
 Stress fiber (441) 337
 Stress resistance (436) 382
 Stress response (427) 175, 255; (436) 139
 Stress tolerance (425) 97
 Stress-activated protein kinase signal pathway (437) 172
 Stress-activated protein kinase/c-Jun N-terminal kinase (426) 93
 Stromal cell-derived factor 1 (425) 105
 Stromal cell-derived factor 1α (431) 236
 Stromal fibroblast (437) 107
 Strong binding (430) 266
 Strongylid (429) 4
 Structural analysis (430) 95
 Structural domain (435) 191
 Structural maturation (434) 372
 Structural motif (437) 246
 Structural plasticity (425) 415
 Structural similarity (437) 246
 Structure (423) 347; (425) 352; (430) 51; (437) 187
 Structure calculation (436) 149
 Structure prediction (439) 281
 Structure stabilization (436) 174
 Structure-activity relationship (439) 13
 Structure-function relationship (427) 115, 296
 Strychnine (436) 251
 Subcellular localization (437) 287
 Subconductance (423) 86
 Submitochondrial particle (440) 223
 Substrate analogue (441) 327
 Substrate binding site (428) 141

Substrate inhibition (429) 129
 Substrate metabolism (440) 85
 Substrate specificity (424) 49; (428) 135; (429) 129; (430) 45; (431) 255, 433
 Substrate-assisted catalysis (433) 326
 Subtilase (426) 41
 Subtilisin-like convertase (438) 306
 Subtraction technique (425) 490
 α -Subunit (423) 86; (426) 212
 β Subunit (423) 86, 213
 ϵ Subunit conformation (426) 37
 Subunit dissociation (436) 367
 Subunit interaction (424) 169
 Subunit interface (434) 42
 Subunit structure (422) 240; (440) 239
 SUC2 (434) 71
 Succinate diffusion potential (434) 57
 Sucrose isomerase (441) 348
 Sucrose synthase (430) 205
 Sucrose transporter (424) 165
 Sucrose-fructan 6-fructosyltransferase (440) 356
 Sucrose-phosphate synthase (435) 110
 Sugar absorption (423) 302
 Sugar binding site (429) 341
 Sugar phosphate backbone (431) 453
 Sugar repression (423) 81
 Sugar sensing (428) 275; (429) 147
 Sugar transport (441) 343
 Sulfatase (423) 61
 Sulfated glycan (440) 307
 Sulfatide (426) 102
 Sulfide dehydrogenase (427) 11
 Sulfite (423) 231
 Sulfitolysis (424) 109
 Sulfonylurea (427) 41
 Sulfotransferase (433) 211; (441) 235
 Sulfur (441) 14
 Sulfur dioxide (423) 231
 Sulfur donor (440) 226
 Sulfur metabolism (427) 11
 Sulphonylurea receptor (429) 390
 Superoxide (425) 256; (427) 171; (428) 43; (434) 97, 201; (435) 35, 269; (438) 161
 Superoxide anion (430) 348; (440) 13; (441) 63
 Superoxide dismutase (431) 149
 Superoxide generation (436) 155
 Superoxide production (436) 411
 Suramin (421) 165; (423) 243; (429) 143; (430) 209; (433) 251
 Surface electrostatic property (436) 149
 Surface expression (424) 57
 Surface plasmon resonance (422) 301; (435) 110; (439) 224
 Surface pressure/area isotherm (438) 279
 Surface-available protein (434) 351
 Surfactant protein (423) 1
 Surgery (434) 33
 Surimi (427) 252
 Survival signal (437) 221
 Sushi (432) 103
 SV40 large tumor-antigen (440) 297
 Swelling (422) 346; (423) 339; (426) 111
 Swiss 3T3 (427) 371
 SY5Y cell (426) 248
 Syk (427) 139
 Sympathetic activity (431) 80
 Sympathetic nervous system (429) 395
 Synapse (429) 284
 Synaptic transmission (435) 84
 Synaptic vesicle (436) 85
 Synaptobrevin-2 (429) 234
 Synaptogenesis (435) 275
 Synaptotagmin (432) 5
 Synaptophysin family (431) 263
 Synaptosomal-associated protein of 25 kDa (425) 66
 Synaptosome (440) 287
 Synchronisation (422) 165; (426) 29
 Synchronization of cells (421) 89
 Syncytia (431) 395
 Syndecan-1 (426) 67

Synechococcus PCC 7942 (426) 221
Synechococcus sp. PCC 6301 (431) 219
Synechococcus sp. strain PCC 7942 (427) 291
Synechocystis (436) 434
Synechocystis 6803 (436) 189
Synechocystis sp. PCC 6803 (428) 188; (436) 483
 Synonymous codon usage (434) 93
 Synovial fibroblast (433) 331
 Syntaxin (425) 66; (436) 1
 Synteny (424) 11
 Synthesis (436) 174
 Synthetic antibody (430) 92
 Synthetic inhibitor (428) 100
 Synthetic oligopeptide (430) 261
 Synthetic peptide (427) 115; (429) 421; (433) 103; (438) 106
 Synthetic-lethal (423) 149
 Syntrophin (423) 173
 α -Synuclein (421) 73; (436) 309; (440) 67, 71

T

Tachykinin receptor (439) 35
 Talin (426) 165; (434) 66
 Tamoxifen (434) 236
Tanacetum (437) 278
Taq DNA polymerase (425) 249
 TaqMan polymerase chain reaction (426) 352
Taraxacum officinale proteinase (437) 237
 Taraxalisin (437) 237
 Target protein binding (421) 175
 Targeted disruption (441) 261
 Targeting (433) 83; (437) 44
 Targeting signal (429) 53; (434) 425
 Taste (434) 47
 TATA box binding protein (436) 318
 TATA element (434) 339
 TATA-less (435) 138
 Tau (423) 227
 Tau phosphorylation (436) 28, 471
 Tau protein (433) 201; (437) 207; (439) 21
 Tax (423) 25
tax (428) 183
 Taxol (439) 368
 T-cadherin (434) 183
 T cell (422) 349; (427) 247
 T cell activation (441) 432
 T-cell receptor (439) 291
 T4 DNA ligase (433) 283
 TE671 (439) 138
 Tears (432) 163
 Tec1 (429) 83
 Telethonin (428) 111
 Telomerase (436) 35
 Telomerase activity (441) 318
 Telomerase assay (434) 409; (439) 143
 Telomere (435) 74
 Telomeric repeat sequence (439) 143
 Temperature dependence (431) 97
 Template-induced chemical ligation (431) 453
 Tenascin (429) 269
 Tenascin-C (426) 225
 Tenecin 1 (439) 41
 T-epitope (438) 106
 Terbium (429) 89
 Terminal α -galactose residue (421) 169
 Terminal deoxynucleotidyl transferase-mediated dUTP nick end labelling (437) 131
 Terminal deoxyribonucleotidyl transferase (434) 77
 Terminal oxidase (432) 99
 Terpene metabolism (438) 293
 Testicular-tumor stem cell (432) 123
 Testis (429) 61; (434) 289; (438) 131

- Testosterone (429) 263
 Tetanus toxin (425) 66
 Tetrachloroethene dehalogenase (436) 159
 Tetracycline transactivator (422) 328
 Tetracycline/H⁺ antiporter (433) 245
 Tetrad (435) 74
 Tetrahydrobiopterin (428) 212; (434) 261; (438) 161
Tetraselmis viridis (426) 161
 Tetryl (436) 144
 TFF domain peptide (439) 180
 TGα1 (424) 17
 TGFβ-receptor interacting protein-1 (426) 279
 Thapsigargin (439) 127
 Theiler's virus (433) 139
 Thermal block (428) 123
 Thermal denaturation (438) 137
 Thermal stability (433) 307
 Thermal unfolding (433) 241
 Thermodynamic stability (421) 234
 Thermogenesis (436) 415; (440) 348; (441) 447
 Thermolysin (438) 215
 Thermophile (432) 99
Thermoplasma acidophilum (425) 87; (434) 357
 Thermoregulatory uncoupling (436) 81
 Thermostable (428) 157
Thermotoga (440) 393
Thermus thermophilus (427) 1; (434) 17
 Thiamine diphosphate (424) 49; (437) 273; (441) 404
 Thiamine monophosphate (435) 6
 Thiamine pyrophosphate (435) 6
 Thimet oligopeptidase (435) 16
 Thin filament (429) 95
 Thio effect (431) 154
 Thiobarbituric acid-reactive substance (435) 153
 Thiocellobiose (421) 243
 Thionin (437) 281
 γ-Thionin (440) 302
 Thiopurine S-methyltransferase (424) 143
 Thioredoxin (422) 99; (424) 109; (428) 255; (431) 381
 Thiosulfate (427) 11
 4-Thiouridine (427) 1
 Third variable domain (430) 333
 Third variable loop (426) 367
 Three-dimensional structure (426) 291
 Three-finger motif (429) 385
 Threonine residue (430) 301
 Thrombin (425) 229
 Thrombin receptor (429) 370
 Thrombopoietin (423) 10; (427) 46; (428) 250
 Thromboxane (434) 245
 Thrombus (429) 327
 Thylakoid (423) 183; (434) 425
 Thylakoid import (431) 339
 Thylakoid lumen (428) 241
 Thylakoid membrane (424) 105; (435) 101; (440) 59
 Thylakoid protein phosphorylation (423) 178
 Thymidine phosphorylase (438) 91
 β-Thymosin (425) 251, 495
 Thyroid (426) 183; (429) 36; (438) 81
 Thyroid hormone (422) 103; (430) 409
 Thyroid stimulating hormone (438) 81
 Tiam1 (429) 229
 Ticlopidine (436) 357
 Timeless homologue (441) 427
 Time-resolved absorption spectroscopy (433) 321
 Time-resolved fluorescence (426) 297
 Time-varying magnetic field (435) 229
 Tissue (431) 167
 Tissue culture (423) 19
 Tissue distribution (434) 300; (441) 43
 Tissue factor (429) 347; (441) 463
 Tissue factor pathway inhibitor (421) 197
 Tissue heterogeneity (430) 64
 Tissue homeostasis (428) 7
 Tissue inhibitor of metalloproteinase (435) 39; (440) 419
 Tissue level (428) 286
 Tissue specific gene expression (428) 165
 Tissue specific green fluorescent protein expression (440) 370
 Tissue-specific expression (440) 320
 Tissue-specific peptide pool (428) 7
 Titin (428) 111; (429) 95; (430) 23
 T-lymphocyte (431) 45, 195; (433) 23; (435) 55; (436) 115
 7TM receptor (439) 35
 7 TMD GTP coupled receptor (422) 201
 Tn cell (441) 49
 TNF receptor (421) 2
 TNF-α converting enzyme (435) 39
 Toad (424) 69
 Tobacco (430) 257
 Tobacco BY-2 cell (422) 165; (426) 29
 Tobacco mosaic virus (425) 217; (433) 307
 Tocopherol (423) 297
 α-Tocopherol (427) 305; (431) 315; (436) 424
 α-Tocopherylquinone (436) 424
 Toluene 4-monooxygenase (430) 181
 Tomato (434) 377
 Topoisomerase (425) 337
 Topological isomer (421) 27
 Topology (429) 173
 Toremifene (434) 236
 Toxicity (439) 235; (440) 71
 Toxin (437) 241; (441) 387
 Toxin cDNA (431) 375
 ToxR (423) 371
 TPA (436) 218
 TPase inhibitor (438) 91
 TPH-1 cell (429) 89
 Tracheary element (429) 134
 TRAIL receptor (424) 41
 Transactivation (423) 129, 235; (430) 393; (431) 102
 Transactivation domain structure (430) 317
 Transaldolase (441) 247
 Transamidase (421) 252
 Transcription (421) 105; (425) 24; (426) 86; (428) 1; (429) 183; (430) 171; (431) 362; (432) 141; (436) 99; (440) 264, 277
 Transcription activation (430) 317
 Transcription factor (421) 229; (424) 177; (426) 271; (427) 15; (432) 1; (434) 140; (435) 11; (436) 139, 169, 318; (437) 70
 Transcription factor GCN4 (425) 14
 Transcription factor IIF (435) 191
 Transcription factor SP-1 (421) 89
 Transcription regulation (421) 152; (434) 251; (440) 107
 Transcriptional control (432) 182
 Transcriptional regulation (425) 112; (433) 15; (436) 228; (440) 119; (441) 106, 132
 Transcriptional repression (426) 283
 Transcriptional repressor protein (425) 161
 Transducin (422) 343; (425) 126; (439) 110
 Transendothelial migration (430) 414
 Transfection (425) 239; (430) 307; (434) 394; (436) 55; (441) 97
 Transferred NOE spectroscopy (421) 243
 Transferrin (422) 315
 Transformation (440) 231
 Transformation system (425) 117
 Transforming growth factor-α (435) 119
 Transforming growth factor-β (422) 197; (426) 279; (430) 201; (434) 83; (436) 197
 Transforming growth factor-β receptor gene expression (422) 197
 Transforming growth factor-β1 (427) 255; (429) 412
 Transgene (430) 64
 Transgenic mouse (421) 285; (430) 83; (438) 76; (440) 370
 Transglutaminase (423) 291; (425) 141; (430) 59; (435) 251; (437) 34
 Transition metal (428) 93
 Transition state complex (432) 55
 Transketolase (440) 81
 Translation (430) 257; (434) 8, 382, 417; (436) 382; (440) 387
 Translation efficiency (422) 89
 Translation initiation (425) 40
 Translation initiation factor (435) 79
 Translation initiation factor 3 (436) 213
 Translation initiation factor 4G (438) 41
 Translation rate (434) 93
 Translational control (433) 98; (436) 343
 Translational efficiency (440) 351
 Translocase (436) 277
 Translocation (421) 268; (422) 123; (423) 66; (434) 205

- Translocation pore (432) 21
 Transmembrane domain (433) 83
 Transmembrane helix (431) 143
 Transmembrane protein (423) 281
 Transmissible spongiform encephalopathy (426) 291
 Transport (424) 57; (429) 36
 Transporter (432) 31
 Transposable element (428) 1
 Transposase (428) 217
 Transthyretin (425) 225
 Transzyme (436) 99
 Trefoil (431) 367
 Trefoil peptide (439) 180
 Trehalose phosphorylase (440) 440
 Trehalulose (441) 348
 Triabody (425) 479
 Triacylglycerol (431) 371
 Triad (429) 317
 Triad junction (431) 263
 Tributyltin (429) 351
 TRiC/CCT (430) 73
Trichoderma viride (432) 113
 Trichomonad (429) 399
 Trichostatin (436) 193
 Trichothecene mycotoxin (435) 163
 Triester-like mechanism (431) 154
 Trigger factor (425) 382
 Triglyceride (433) 44
Trigonopsis variabilis (436) 119
 Trimer (425) 479
 Trimeric cooperativity (423) 343
N- ω -Trinitrophenylaminolauryl-sphingomyelin (423) 249
 Triple helix stability (436) 243
 Triplet repeat (426) 229
 Tritin-S (431) 259
 Triton X-100 (426) 314
Triturus cristatus carnifex (432) 77
 T7 RNA polymerase (427) 337; (439) 302; (440) 264
 tRNA (429) 189; (431) 259, 427; (434) 149; (440) 273
 tRNA dimer (426) 135
 tRNA gene transcript (426) 135
 tRNA processing (433) 269
 tRNA recognition (439) 235
 tRNA-dependent amino acid recognition (439) 235
 tRNA^{Gln} (428) 161; (431) 138
 tRNA^{Lys3} (430) 165
 tRNA^{Sec} (427) 315
 tRNA^{Sec} (427) 315
 tRNA^{Tyr} (436) 99
 Trolox (428) 43
 Tropane alkaloid (437) 309
 Trophoblast (439) 163
 Tropomyosin (423) 93; (433) 241
 Trp (422) 333
 Trp channel (437) 101
 Trp fluorescence (430) 401
 Trp homologue (429) 61
 Truncated mRNA (434) 51
Trypanosoma brucei (431) 381; (433) 251
Trypanosoma cruzi (424) 131; (429) 129; (436) 377
 Trypanothione (431) 381
 Tryparedoxin (431) 381
 Trypsin (422) 74; (423) 167
 Trypsin inhibitor (423) 167; (436) 174
 Tryptic hydrolysate (438) 255
 Tryptophan (423) 223
 Tryptophan analogue (422) 52
 Tryptophan degradation (424) 127
 Tryptophan fluorescence (422) 311; (423) 93
 Tryptophan mutant (429) 312
 Tryptophanase (433) 279
 Tryptophanyl-tRNA synthetase (427) 157
 ts mutation (433) 307
 TSG-6 (428) 171
 β T168S mutation (421) 65
 TSP (432) 228
 TT virus (437) 201
Tth DNA polymerase (425) 249
 Tubulin (429) 399; (430) 278
 Tumor cell (424) 262; (431) 224; (436) 139
 Tumor marker (439) 55
 Tumor metastasis (427) 286
 Tumor necrosis factor (426) 179; (429) 139; (439) 147; (440) 41; (441) 275
 Tumor necrosis factor α (433) 125; (440) 29, 348
 Tumor necrosis factor receptor (424) 41; (431) 351
 Tumor necrosis factor receptor-associated factor 2 (425) 195
 Tumor necrosis factor- α (425) 371, 431; (431) 116; (436) 329; (440) 434
 Tumor promoter (431) 357
 Tumor suppressor (440) 25
 Tumor suppressor gene (426) 266; (441) 127
 Tumor targeting (422) 259
 Tumorigenesis (429) 1
 Tumour growth (436) 415
 Tumour necrosis factor (426) 373; (435) 39
 Tumour necrosis factor- α (437) 65
 Tumour necrosis factor- α convertase (431) 63
 Tumour suppression (427) 157
 Tungstate (431) 205
 β -Turn motif (427) 36
 Twin arginine (423) 66
 Twin-arginine transfer peptide (431) 339
 Two hybrid system (438) 131
 Two-component system (429) 259; (437) 11
 Two-dimensional crystal (425) 505
 Two-dimensional electrophoresis (435) 131
 Two-dimensional gel electrophoresis (435) 245
 Two-dimensional nuclear magnetic resonance (440) 382
 Two-dimensional polyacrylamide gel electrophoresis (441) 369
 Two-dimensional polyacrylamide gel electrophoresis database (430) 64
 Two-dimensional proton magnetic resonance spectroscopy (423) 71
 Two-domain protein (438) 127
 Two-hybrid analysis (436) 76
 Two-hybrid system (422) 79; (424) 27; (427) 236
 Type II restriction enzyme (438) 66
 Type III secretion (428) 224
 Type IV collagen (424) 11
 Tyr⁷⁷¹ (423) 53
 Tyr⁷⁸³ (423) 53
 Tyrosine kinase (424) 177; (429) 365; (434) 339; (441) 297
 Tyrosine kinase inhibition (422) 197
 Tyrosine metabolite (432) 13
 Tyrosine phosphatase (434) 241
 Tyrosine phosphorylation (432) 133; (434) 431; (441) 141
 Tyrosine-phosphorylated peptide (422) 213
 Tyrosyl radical (421) 277
- ## U
- U46619 (435) 115
 Ubiquinone (431) 34, 241, 291, 423
 Ubiquitin (438) 297
 Ubiquitin chain (435) 138
 Ubiquitin conjugating enzyme (425) 431
 Ubiquitination (422) 129; (423) 49; (438) 183; (441) 343
 Ubiquitous expression (429) 53
 UDP (439) 107
 UDP-galactose-4'-epimerase (431) 391
 UGA readthrough (421) 237
 Ultrafast spectroscopy (430) 323
 Ultrafiltration (425) 495
 Ultrastructure (434) 188
 Ultraviolet absorbance (435) 74
 Ultraviolet B (441) 297
 Ultraviolet irradiation (428) 23; (429) 289
 Ultraviolet light (422) 403
 Ultraviolet melting (435) 74
 Ultraviolet visual pigment (423) 155
 Ultraviolet-A (439) 253
 Ultraviolet-C light (437) 131

U87MG (440) 119
 Uncoupler (428) 89
 Uncoupling (423) 339; (430) 409
 Uncoupling protein (425) 185; (429) 403; (435) 215; (436) 81; (438) 10; (439) 55; (440) 450
 Uncoupling protein-1 (441) 447
 Uncoupling protein-2 (432) 65; (436) 415; (440) 348; (441) 447
 Uncoupling protein-3 (436) 415; (440) 348
 Unequal cross-over (441) 451
 Unfolding intermediate (432) 228
 Unfolding, binding and stabilization by guanidinium ion (441) 71
 Uniform labeling of DNA duplexes (436) 372
 Unstirred layer (425) 222
 Unstructured protein region (432) 1
 3' Untranslated region (425) 157; (438) 81
 5'-Untranslated region (422) 89; (434) 417; (430) 327; (440) 33, 351
 Unusual DNA structure (435) 74
 Up-regulation (436) 55
URA2 (422) 170
 Ureteric bud (423) 362
 Urocortin (435) 187
 Uroguanylin (421) 27
 Urokinase-type plasminogen activator (438) 101
 Urokinase-type plasminogen activator receptor (438) 101
 Uropygial gland (434) 394
 Uterine stromal cell (432) 219
 Uteroglobin (432) 163
 UTP (439) 107
 UTP regulation (422) 170
 UV (425) 499
 UV spectroscopy (423) 231
 UVB radiation (430) 297

V

V₂ antagonist (441) 470
VacA (431) 347
 Vaccine (427) 183, 229; (441) 353
 Vacuolar acidification (440) 258
 Vacuolar sap (429) 194
 Vacuolar sorting (440) 175
 Vacuolating cytotoxin A (436) 218
 Vacuolation (431) 347
 Vacuole (429) 194; (431) 347; (441) 343
 Valency (434) 193
Valonia cellulose (432) 113
 Vanadate (425) 298
 Vanadium (428) 105
 Vanadium-containing enzyme (441) 257
 Vanillin (430) 390
 Vanilloid receptor (436) 449
 Vanillyl-alcohol oxidase (422) 65
 Variant (441) 392
 Vascular calcification (433) 19
 Vascular cell (441) 366
 Vascular endothelial cell (433) 294
 Vascular endothelial growth factor (423) 10; (425) 441; (434) 417
 Vascular endothelium (437) 101
 Vascular smooth muscle (422) 197; (431) 71
 Vascular smooth muscle cell (421) 208; (422) 85; (425) 441; (429) 207; (433) 19
 Vasoactivity (436) 445
 Vasoconstriction (427) 209
 Vasopressin (422) 85
 Vasopressin V2 receptor (441) 170
Vatairea macrocarpa seed (425) 286
V-ATPase (440) 258
Vav (441) 480
VCAM-1 (430) 414
 Venom (441) 387
 Vertebrate (423) 155
 Vertebrate evolution (439) 9; (440) 332

Very long-chain acyl-CoA synthetase (425) 305
 Very-long-chain acyl-coenzyme A dehydrogenase (426) 187
 Very long-chain fatty acid (426) 238, 342
 Vesicle formation (434) 127
 Vesicle protein (437) 267
 Vesicle-associated membrane protein (425) 66
 Vesicle-micelle structural transition (426) 314
 Vesicular stomatitis virus (426) 179
 Vesicular traffic (423) 113; (435) 211; (436) 1
 Vesicular transport (425) 460; (431) 91
 VHS domain (440) 255
Vibrio alginolyticus (422) 240
Vif (441) 419
 Vimentin (437) 15
 Vinculin (431) 49
 Vinculin-regulated cellular elasticity (424) 139
 Vindoline (428) 299
 Viral protein r (429) 421
 Viral receptor (441) 209
Viridis (436) 339
 Virus particle (441) 379
 Virus vector (425) 105; (427) 229
 Viscumin (431) 367
 Vision (425) 317
 Visual cell (439) 110
 Visual cycle (428) 135; (440) 195
 Vitamin A (440) 195
 Vitamin A deficiency (426) 260
 Vitamin C (428) 97; (436) 387; (439) 363
 Vitamin D receptor (440) 203
 Vitamin E (435) 153; (436) 387
 Vitamin E biological activity (437) 145
 Vitamin E recycling (428) 43
 Vitamin E urinary metabolite (437) 145
 Vitronectin (424) 84
VLA-4 (430) 414
vMIP-II (441) 77
 Voltage gating (431) 305
 Voltage sensor (423) 5
 Voltage-dependent block (430) 370
 Von Willebrand factor (424) 211
 Von Willebrand factor type A (436) 123; (438) 165
Vpr (432) 17
Vpu (431) 143
vseap1 (422) 79
v-src (422) 79

W

Water immersion restraint stress (425) 243
WBAIL (425) 57
 WD motif (441) 251
 WD-40 repeat (440) 425
 Weak binding (430) 266
 WH1 domain (441) 181
 Wheat (434) 215
 Wheat germ agglutinin (440) 315
 White adipose tissue (429) 395; (439) 89
 Wilson disease (428) 281; (436) 223; (440) 141
 Winter flounder (426) 121
 Wiskott-Aldrich syndrome gene product (434) 431
 Wood-rotting fungus (437) 117
 Wortmannin (422) 155
 Wound healing (437) 177
 Wound-inducible expression (440) 175
 Wounding (437) 281

X

Xanthine oxidoreductase (426) 397; (427) 225
Xanthobacter (430) 181
Xanthophyll (440) 59
Xenopus (425) 465
Xenopus egg extract (428) 52
Xenopus laevis (423) 31, 117; (428) 59; (433) 68, 219; (434) 121
Xenopus laevis fertilization (424) 113
Xenopus oocyte (422) 307; (425) 277; (426) 174; (427) 220; (431) 411;
 (433) 223; (434) 171; (436) 104; (438) 177, 321; (439) 121, 157
Xenopus oocyte extract (424) 225
 X-ray absorption spectroscopy (441) 11
 X-ray analysis (425) 161; (430) 126
 X-ray crystal structure (438) 272
 X-ray crystallography (425) 229; (431) 367; (438) 211; (441) 77
 X-ray diffraction (422) 252; (430) 283
 XY body (439) 208
 Xylanase A (429) 312

Y

Ycf32 (423) 183
 Yeast (421) 15; (427) 213; (431) 66; (434) 219; (436) 35; (439) 307;
 (440) 291; (441) 177, 343
 Yeast Ccc2 protein (428) 281
 Yeast complementation (437) 287
 Yeast expression (429) 173; (441) 25

Yeast genome (426) 7
 Yeast ortholog (429) 53
 Yeast *Saccharomyces cerevisiae* (438) 61
 Yeast transporter (430) 116
 Yeast two-hybrid (424) 63; (425) 431; (435) 49; (437) 56
 Yeast two-hybrid system (441) 437
 Yellow body (425) 131
 Yohimbine (436) 251
 YOR037w (439) 307
 Young's modulus (430) 12
 yrb2 (427) 330

Z

Z-disk (428) 111
Zea mays L. (426) 62
 Zeaxanthin (424) 267
 Zellweger syndrome (431) 1
 Zinc (439) 35
 Zinc binding (426) 266
 Zinc β -lactamase (438) 137
 Zinc finger (425) 323; (430) 251
 Zinc finger protein (421) 224
 Zinc ligand (435) 16
 Zinc metalloprotease inhibitor (429) 234
 Zinc metalloproteinase (431) 63
 Zinc removal (438) 137
Zinnia elegans (429) 134
 Zn²⁺ binding motif (427) 259
 Zona glomerulosa (432) 37
 Zoospore motility (438) 236
 Zymography (440) 419