

SUBJECT INDEX

- Absorption 11P
- Acetyl hydrazine 488P
- Acetylcholine 276P, 567P
- Acetylcholine, striatal 306P
- Acetylcholine metabolism, striatal 361P
- Acetylcholine receptor 13P, 275P
- Acetylcholine-receptor channels 185P
- Acetylcholine release 274P
- Acetylcholinesterase 518P
- α_1 -acid glycoprotein 486P
- Acidosis 421P, 47P
- Adipose tissue reduction 64P
- Adenosine 51P, 347P, 427P
- Adenosine diphosphate 167P
- Adenosine 3', 5' monophosphate, cyclic 17P, 51P, 453P, 510P
- Adenosine A_1 receptor 347P
- Adenosine receptors, presynaptic 537P
- Adenosine triphosphatase, sodium and potassium dependent 435P, 559P
- Adenosine triphosphate 257P, 278P, 473P, 554P
- Adenylate cyclase 98P
- Adenylate cyclase, dopamine-sensitive 20P
- Adenylate cyclase adaptation 514P
- Adrenal regeneration 71P
- Adrenalectomy, rats 70P
- Adrenaline 338P, 372P, 391P, 399P, 464P, 479P
- Adrenaline displacement 151P
- Adrenergic mechanisms 182P
- Adrenergic nerve terminal 408P
- Adrenergic transmission 475P
- Adrenoceptor agonists 494P
- α_1 -Adrenoceptor agonists 153P
- β -Adrenoceptor agonists 116P, 448P, 481P
- α -Adrenoceptor antagonist 124P
- α_1 -Adrenoceptor antagonists 527P
- α_2 -Adrenoceptor antagonists 153P, 263P, 411P, 531P
- β -Adrenoceptor antagonists 180P, 181P, 215P, 246P, 250P, 481P, 522P
- α_2 -Adrenoceptor binding 151P
- β -Adrenoceptor binding 98P
- β -Adrenoceptor desensitization 97P
- α_2 -Adrenoceptor selectivity 533P
- α -Adrenoceptor stimulation 321P
- α -Adrenoceptor turnover 207P
- Adrenoceptors 32P, 50P, 260P, 484P, 538P
- Adrenoceptors, rabbit tracheobronchial tree 401P
- α -Adrenoceptors 36P, 100P, 124P, 137P, 154P, 175P, 206P, 207P, 210P, 211P, 258P, 299P, 318P, 322P, 370P, 381P, 401P, 412P, 415P, 476P, 484P, 513P, 541P
- α_1 -Adrenoceptors 141P, 203P, 249P
- α_2 -Adrenoceptors 33P, 49P, 138P, 139P, 141P, 152P, 156P, 203P, 209P, 212P, 236P, 249P, 261P, 262P, 294P, 319P, 361P, 380P, 446P, 447P, 469P, 478P, 528P, 531P, 534P, 543P
- β -Adrenoceptors 17P, 22P, 69P, 156P, 259P, 317P, 327P, 381P, 383P, 400P, 401P, 402P, 480P, 487P
- β_1 -Adrenoceptors 214P, 251P, 530P
- β_2 -Adrenoceptors 214P, 251P, 529P
- α_2 -Adrenoceptors, pre- and postjunctional 532P
- Adrenoceptors, presynaptic 18P
- α_2 -Adrenoceptors, presynaptic 134P
- α_1 -Adrenoceptors, postsynaptic 135P, 140P
- α_2 -Adrenoceptors, postsynaptic 72P, 73P, 135P, 136P, 140P
- β_2 -Adrenoceptors, postsynaptic 72P
- Ageing 322P, 517P
- Agonist affinity 383P
- AH22216 195P
- Airway resistance 2P, 392P
- Airways, guinea-pig 398P
- Akinesia 515P
- Alcohol 54P
- Aldose reductase 331P
- Aldosterone 15P
- Alinidine 320P
- Allergens 545P
- Allergy 219P
- Alloxan-diabetes 470P
- Althesin 555P
- Amine oxidases 194P
- Amine uptake 364P
- Amino acids 96P, 445P, 503P, 504P, 505P
- Δ -Aminolaevulinic acid 217P
- γ -Aminobutyric acid 45P, 47P, 85P, 86P, 89P, 91P, 217P, 238P, 289P, 290P, 313P, 368P, 446P, 451P
- γ -Aminobutyric acid receptor binding 47P, 86P, 88P, 498P
- γ -Aminobutyric acid receptors 409P
- γ -Aminobutyric acid-ergic interneurons 46P
- Aminoglycoside 432P, 594P
- Aminosteroids 179P, 252P
- 2-Aminotetralin 536P
- 5-Aminovalerate 409P
- Amiodarone 387P
- Amitriptyline metabolites 420P

Amniotic fluid, human 194P
 Amoeba 432P
 Amphetamine 106P, 293P, 355P
 Amrinone 184P, 253P, 385P
 Anaesthetic binding site 13P
 Anaesthetics 230P, 305P, 416P
 Anaesthetized dogs 373P
 Analgesia 119P, 304P, 348P, 349P
 Analog-digital conversion 595P
 Anaphylaxis 1P, 395P
 Anaphylactic shock 245P
 Angiotensin 246P
 Angiotensin II 198P
 Angiotensin converting enzyme 131P
 Angiotensin converting enzyme inhibitors 133P, 135P
 Angular complex 84P, 85P
 Anococcygeus 210P, 409P, 474P, 548P
 Anococcygeus, mouse 278P
 Anococcygeus, rabbit 190P
 Anococcygeus, rat 190P, 473P, 541P
 Anolis melanophore 209P
 Antianginal agents 149P
 Antiarrhythmic activity 252P
 Antiarrhythmic drugs 386P
 Anticoagulants 129P
 Anticonvulsant activity 341P
 Anticonvulsants 342P
 Antidepressants 98P, 100P, 170P, 499P
 Antigens 393P, 395P
 Antihypertensive agents 143P, 203P, 371P
 Antihypertensive effect 254P
 Anti-inflammatory agents 2P, 10P, 522P
 Anti-leprotic drugs 574P
 Anti-Parkinson drugs 345P
 Antimineralocorticosteroids 15P
 Antinociception 269P, 272P
 Antipyrine metabolite kinetics 59P
 Antrectomy 424P
 Anxiolytic drugs 239P
 Aorta 256P, 379P
 Aorta, pig 376P
 Aorta, rat 76P, 175P, 326P
 Aortic nerve discharge 325P
 Apamin 479P
 Apomorphine 80P, 156P, 359P
 Aqueous humour, outflow 338P
 Arachidonic acid 2P, 284P, 339P
 Arachidonic acid metabolites 473P
 Arachidonate 4P
 Arrhythmia 181P, 388P
 Artefacts 571P
 Arterial tone 67P
 Arthritis 553P
 Arthritis, rats 281P
 Aryl hydrocarbon hydroxylase 485P
 Arylalkyl imidazoles 318P
 Ascorbate 61P
 L-aspartate 502P
 Aspirinase 422P
 Asthma 545P
 Atenolol 213P, 325P
 Atria, guinea-pig 79P, 247P, 248P, 389P, 593P
 Atria, rat 247P
 Atrial arrhythmias 387P
 Atropine 264P, 310P
 Audiogenic seizures 88P
 Automatic control 590P
 Automaticity 525P
 Automated apparatus 170P
 Autonomic control 388P
 Autonomic nervous system 564P
 Autonomic transmitters 405P
 Autoradiography 568P, 569P
 Axon reflexes 378P
 Axonal transport 331P, 563P
 Azathioprine 191P
 Azepevole 541P
 Baclofen 91P, 289P, 498P
 Barbiturates 158P, 369P, 509P
 Barium 256P, 525P
 Baroreceptors 325P
 Basophil 426P, 427P
 Behaviour 30P, 43P, 107P, 226P, 580P, 586P
 Behaviour, immature rats 504P
 Behaviour, mouse 170P
 Behavioural responses 99P
 Benzamides 363P
 Benzamides, substituted 208P
 Benzodiazepine antagonists 87P
 Benzodiazepine binding 88P, 302P
 Benzodiazepine binding heterogeneity 497P
 Benzodiazepine receptors 42P, 302P
 Benzodiazepines 43P, 44P, 48P, 87P, 238P, 240P, 241P, 300P, 301P, 312P, 312P, 313P, 451P
 Benzoquinolizines 154P, 263P
 Betamethasone 192P
 Bezold-Jarisch effect 520P
 Bile 188P
 Bile-salt 14P
 Bile salts, spasmolytic activity 542P
 Biliary excretion 421P
 Binding 95P, 294P, 486P, 502P, 557P
 Binding sites 296P
 Biogenic amines, brain levels 449P
 Biological activity 163P, 168P
 Biventer cervicis 463P
 Bladder, bat 483P
 Blood counts 127P
 Blood flow 68P, 425P
 Blood gases 262P
 Blood pressure 133P, 140P, 333P, 339P, 380P, 438P, 521P
 Blood pressure, measurement 303P
 Blood pressure, rat 69P, 317P

Blood vessels 147P, 150P, 257P
 Body weight 223P
 Bombesin 439P
 Bradycardia 139P, 320P
 Bradykinin 286P
 Brain, guinea-pig 121P
 Brain, mouse 302P
 Brain, rat 34P, 93P, 228P, 566P
 Brain cortex 314P
 Brain dialysis 354P, 450P
 Brain extract, rat 572P
 Brain slice 229P, 585P
 Brain slices, rat 108P
 Brain tissue 461P
 Breast milk 489P
 Bromosulphophthalein 110P
 Bronchoactive actions 158P
 Bronchoconstriction 398P, 545P
 Bronchodilatation 396P, 397P, 400P
 Bufuralol 400P
 Buprenorphine 118P

 CCI 22277 179P
 Caffeine 62P, 313P
 Calcitonin 119P, 270P, 271P, 518P
 Calcium 147P, 174P, 175P, 256P, 273P, 376P, 446P
 Calcium, heart 77P
 Calcium antagonists 25P, 172P, 177P, 254P, 255P, 271P, 384P, 412P, 426P, 567P
 Calcium channel blockers 176P
 Calcium-dependent release 94P
 Calcium entry blocker 149P
 Calcium flux 24P
 Calcium ion block 148P, 375P
 Calcium ion-currents 289P
 Calcium ion sensitivity 75P
 Calcium ions 469P
 Calcium metabolism 173P
 Calcium paradox 148P
⁴⁵Calcium efflux 544P
⁴⁵Calcium uptake 197P
 Captopril 56P, 131P, 132P, 134P
 Carbachol 431P, 464P
 Carbachol-methohexitone 463P
 Carboline-3-carboxylate esters 497P
 β -Carboline-3-carboxylic acid ethyl ester 312P
 β -Carbolines 42P, 44P
 Carbon fibre microelectrodes 560P
 Cardiac contraction 180P
 Cardiac depolarization 320P
 Cardiac function 592P
 Cardiac interactions 524P
 Cardiac stimulation 251P
 Cardiovascular control 70P
 Cardiovascular effects 373P
 Cardiovascular reactivity 71P
 Cardiovascular reflexes 244P
 Cardiovascular regulation 333P

 Cardiovascular responses 372P, 408P
 Cardioventilatory action 316P
 Carotid loop 303P
 Carrageenan 551P
 Carrageenin-inflammation 284P
 Catechol-O-methyl transferase, extra-neuronal 21P
 Catecholamine metabolism 101P
 Catecholamine release 247P
 Catecholamine turnover 236P
 Catecholamines 107P, 324P, 406P, 470P, 512P, 560P
 Catecholamines, uptake 22P, 389P
 Cation dependency 82P
 Caudate nucleus, rabbit 359P, 367P
 Cellular accumulation 437P
 Cellular immunity 126P, 162P
 Central nervous system, mouse 340P, 341P
 Central nervous system, rat 49P, 236P, 294P
 Central neurones 445P
 Cerebellar neurones 241P, 297P
 Cerebral artery 478P
 Cerebral artery, cat 337P
 Cerebral artery, human 67P
 Cerebrospinal fluid 311P
 Cerebrospinal fluid/brain correlations 102P
 Chlordiazepoxide 239P
 Chlordiazepoxide hyperdipsia 351P
 N-chloroethylaporphine derivatives 38P
 Chlormaltrexamine 29P
 Chloroquine 57P
 p-Chlorophenylalanine 348P
 Cholecystokinin 334P
 Choline transport 512P
 Cholinergic drugs 397P
 Cholinergic neurones 19P, 563P
 Cholinergic supersensitivity 130P
 Chromatography 595P
 Ciclazindol 111P
 Cirazoline 141P, 153P
 Circadian rhythm 288P, 511P
 Circling behaviour 84P, 85P, 308P, 362P
 Circular muscle 114P
 Citalopram 287P
 CL 218,872 487P
 Clebopride 208P
 Clofibrate 280P
 Clonidine 74P, 90P, 139P, 203P, 277P, 316P, 319P, 484P
 Clonidine analogues 298P, 299P
 Clonidine binding 322P
 Clomipramine 288P
 Cloprostenol 549P
 Cocaine 540P
 Cockroach 503P
 Collagen 167P
 Colon, rabbit 14P
 Colon, rat 114P, 270P, 327P

Colonic motility 188P
 Compartmental analysis 147P
 Computer 595P
 Computer analysis 592P
 Computer applications 584P
 Computer simulation 587P, 588P
 Conditioned behaviour 239P
 Conditioned taste aversions 352P
 Conformation 364P
 Conjugation 330P
 Constant current stimulation 115P
 Contractions 382P
 Convulsions 240P, 340P
 Convulsions, experimental 299P
 Cooperativity 42P
 Copulation 199P
 Coronary blood flow 471P
 Cortex, rat 448P, 513P
 Cortical neurones 36P
 Corticosteroids 137P, 397P
 Corticotrophin releasing factor 27P
 Corynanthine 533P
 Cyanide 279P
 Cyclic nucleotide phosphodiesterases 394P
 Cyclic nucleotides 184P, 253P, 375P, 385P
 Cyclosporin-A 126P
 Cyclothiazide 377P
 Cytisine 227P
 Cytochrome P450 59P, 280P
 Cytotoxic drugs 332P

 D145 103P
 Dapsone 109P
 Data collection 578P, 589P
 Datalogger 582P
 Daunorubicin 490P
 l-Deamino-8-D-arginine vasopressin 428P
 Defense behaviour 460P
 Denervation 152P
 (³H)-2-deoxyglucose 315P
 Depolarization 17P
 Desensitization 119P
 (³H)-desipramine binding 34P
 N-desmethyldesipramine 449P
 Desmethyldesipramine 33P, 540P
 Deuteration 65P
 Development 475P
 Diabetes 4P, 330P, 331P, 563P
 Diaminoethane 94P
 Diazepam 45P, 50P, 95P
 Diet selection 223P
 Differential antagonism 534P
 Digitoxin 58P
 Digoxin 201P
 L-dihydroxyphenylalanine 515P
 Diltiazem 148P, 469P
 4-Dimethylaminophenol 279P
 N,N-dimethylformamide 554P

 Discrimination 458P
 Dissociation constant 571P
 Diurnal variation 357P
 DMBA tumours 53P
 Domperidone 539P
 DOPAC 355P
 Dopamine 37P, 73P, 92P, 103P, 104P, 108P, 209P, 232P, 234P, 235P, 290P, 291P, 292P, 293P, 311P, 355P, 434P, 455P, 456P, 457P, 459P, 462P, 505P, 509P, 510P, 516P, 536P
 (³H)-dopamine 354P
 Dopamine agonists 40P, 143P, 145P, 159P
 Dopamine antagonists 145P, 159P
 Dopamine autoreceptors 20P, 353P, 359P
 Dopamine β -hydroxylase 535P
 Dopamine metabolism, striatal 361P
 Dopamine D₁ receptor 363P
 Dopamine D₂ receptor 363P
 Dopamine receptor subtypes 306P, 367P
 Dopamine receptors 38P, 39P, 41P, 82P, 83P, 146P, 232P, 233P, 296P, 334P, 358P, 362P, 408P, 454P, 471P
 Dopamine receptors, cardiovascular 208P
 Dopamine receptors, prejunctional 536P
 Dopamine receptors, presynaptic 145P
 Dopamine release 360P
 Dopamine-sensitive adenylate cyclase 20P
 Dopamine turnover, striatal 307P
 Dose adjustment 594P
 Dosage uniformity 573P
 Dothiepin 97P, 514P
 Drinking behaviour 50P
 Drug discrimination 227P, 499P
 Drug disposition 568P
 Drug-metabolising enzymes 490P
 Drug metabolism 57P, 63P, 109P, 222P, 280P, 283P, 417P, 557P, 558P
 Drug transfer 489P
 Duodenum 424P
 Dyskinesias 516P

 Electrical stimulation 115P, 155P, 228P
 Electrochemical detection 235P, 442P
 Electroconvulsive shock 44P, 89P, 90P
 Electroencephalogram 346P
 Electrolytes 215P
 Electrophysiology 122P, 575P
 Emesis 145P
 End-plate 431P
 β -Endorphin (Lys-Lys-Gly-Glu)-melanocyte potentiating factor 92P
 Endorphins 333P
 Endotoxin 285P, 286P
 Enkephalins 26P, 270P
 Enkephalinase 105P, 120P
 Enprofylline 396P
 Enterohepatic recirculation 421P
 Entopeduncular nucleus 234P

Enzyme assay 406P
 Enzyme inhibitors 26P
 Epoxides 60P
 Ergometrine 136P
 Ethanol 376P, 416P
 Ethinyloestradiol 557P
 Ethology 226P
 Ethyl β -carboline-3-carboxylate 43P, 87P, 238P
 Ethylenediamine 94P, 95P, 297P, 419P
 Etoxadol 445P
 Event-related slow potentials 310P
 Evoked release 403P
 Excitatory transmission 483P
 Exercise 250P, 324P
 Excitatory amino acids 229P, 230P
 Exocrine secretion 405P
 Exploration 353P
 Exploratory activity 306P
 Extrapyramidal areas 243P
 Extravasation 494P, 550P

 False transmitter 276P
 Fat 336P
 Felodipine 374P, 379P
 Female rats 199P
 Fentanyl 244P
 Fibroflutter 464P
 Flunarizine 414P
 Fluorescent probe 202P
 α -Flupenthixol 358P
 Fluphenazine decanoate, chronic treatment 455P
 Folate 237P
 Food flavouring 328P
 Forearm blood flow 324P
 Frusemide 132P, 559P

 Gall bladder, guinea-pig 542P
 Ganglia, rat 216P, 246P
 Ganglionic transmission 18P
 Gastric antrum 264P
 Gastric motility 539P
 Gastric mucosa, dog, 426P
 Gastric mucosal damage 10P
 Gastrin 424P
 Genetic differences 32P
 Glioma 332P
 Globus pallidus 234P
 Glucocorticoid receptor 193P
 Glucocorticosteroids 429P, 433P
 Glucose 290P
 Glucose utilisation 243P
 Glutamate 501P
 Glutamic acid decarboxylase 457P
 Glutathione 421P
 Gn-RF analogues 53P
 Golgi-staining 46P
 Growth hormone 90P, 91P, 225P
 Guanfacine 74P
 Guanidinoethanesulphonic acid 344P

 Guanosine 3', 5'-monophosphate, cyclic 566P
 Guanyl nucleotides 86P
 Guanylatecyclase 329P
 Gut, rat 491P

 Haemolysate 205P
 Haemorrhagic shock 526P
 Haloperidol 233P, 353P
 (^3H)-haloperidol 354P, 450P
 Hansch analysis 574P
 Haptens 393P
 Heart, dog 251P
 Heart, guinea-pig 465P
 Heart, mammal 77P
 Heart, rabbit 78P
 Heart, rat 21P, 176P, 390P, 465P
 Heart rate 527P
 Heat 443P
 Hemicholinium-3 185P
 Heparin 55P
 Hepatic metabolism 225P
 Hepatotoxicity 61P
 Hexachlorobiphenyl 64P
 Hexamethonium 352P
 High affinity binding sites 100P, 138P
 High pressure liquid chromatography 418P, 419P, 442P
 High pressure neurological syndrome 305P
 Hippocampal potentiation 48P
 Hippocampus, rat 292P, 346P, 347P
 Histamine 1P, 68P, 169P, 195P, 196P, 273P, 426P, 427P, 452P, 453P
 Histamine H_2 -receptor antagonist 195P
 Histamine receptors 247P
 L-Histidine 30P
 Histidine decarboxylase activity 561P, 562P
 Hormonal control 388P
 Hydralazine 76P, 77P, 204P, 519P
 Hydrazine 488P
 Hydrazones 76P
 Hydrolases 283P
 6-Hydroxydopamine 308P, 540P
 Hydroxymaprotiline 272P
 N-hydroxymethylintermediate 63P
 5-Hydroxytryptamine 16P, 34P, 45P, 80P, 81P, 99P, 218P, 242P, 258P, 292P, 295P, 311P, 349P, 357P, 436P, 448P, 509P, 511P, 518P, 520P, 521P
 5-Hydroxytryptamine, brain levels 522P
 5-Hydroxytryptamine antagonists 520P
 5-Hydroxytryptamine receptors 36P, 136P, 356P
 (^3H)-5-hydroxytryptamine release 447P
 5-Hydroxytryptophan 287P
 Hyperactivity 315P
 Hyperalgesia 199P
 Hyperkalaemia 479P

Hyperoxia 474P
 Hypertension 71P, 493P, 519P
 Hypoactivity 33P
 Hypoalgesia 438P
 Hypotension 139P, 142P, 249P, 370P
 Hypothalamic stimulation 317P
 Hypothalamus, rabbit 454P
 Hypothalamus, rat 242P
 Hypothermia 214P, 383P, 452P
 Hypoxia 474P, 523P

 ICI 118551 213P, 259P
 Ileum, guinea-pig 113P, 120P, 260P, 269P, 572P
 Ileum, rat 567P
 Imidazole derivative 370P
 Imipramine 34P, 65P, 295P, 511P
 Immunization 201P
 Immunoglobulin production 161P
 In vivo binding 40P, 450P
 In vivo potency 112P
 Indium 55P
 Indolamines 288P
 Indomethacin 11P, 273P, 338P, 551P
 Indoramin 323P, 373P, 527P
 Inflammation 429P, 492P
 Inflammatory diseases 6P
 Inhibitory extract 190P
 Inhibitory innervation 189P
 Inotropic drugs 183P
 Inotropic effects 248P, 321P, 321P
 Insulin hypoglycemia 434P
 Interfacing 578P
 Interpeduncular nucleus 229P
 Intracerebral dialysis 355P
 Intracerebral infusion 37P
 Intrahypothalamic administration 372P
 Intrinsic sympathomimetic activity 75P
 Invertebrate neurones 297P
 Ion fluxes 377P, 425P
 Ionic channel blockade 185P, 187P
 Iontophoresis 96P, 560P
 IQB-M-81 465P
 Iris muscle 12P
 3-Isobutyl-1-methylxanthine 453P
 Isolated neurohypophysis 159P
 Isolated organs 588P
 Isolated tissue 587P, 590P
 Isometric contraction, measurement 150P
 Isoniazid 488P
 Isoprenaline 21P, 241P, 407P, 415P
 Intestinal responsiveness 192P
 Intestine 160P

 Jejunum, rat 277P

 Kainate 237P, 504P
 Kainic acid 84P
 Kallikrein 188P
 Ketamine 52P, 265P
 Ketanserin 142P
 Kidney, dog 222P
 Kidney, guinea-pig 462P
 Kidney, rabbit 530P
 Kidney, rat 9P, 58P, 198P
 Kindling 237P
 Kinetics 66P

 Lead 101P
 Learning 344P
 Leucocytes 163P
 Leukaemia 430P
 Leukotrienes 5P, 168P
 Ligand binding 570P
 Lignocaine 66P, 465P, 487P, 564P
 Lipid peroxidation 490P
 Lipids, dietary 183P
 Lipid-solubility 369P
 Lipolysis 481P
 Liposomes 553P
 Lipoxygenase 162P, 552P
 Liquorice extract 425P
 Liver, guinea-pig 422P
 Liver, rat 66P, 569P
 Liver biotransformation 433P
 Liver enzymes 109P
 Liver microsomes 422P, 487P
 Locomotor activity 80P, 291P
 Low affinity binding sites 138P
 Low-density lipoprotein 332P, 430P
 Lung, guinea-pig 3P, 144P, 394P, 480P
 Lung, human 194P
 Lung, rat 4P, 395P
 Lung ventilation 220P
 Lymphocytes 126P, 161P, 162P, 191P
 Lysergic acid diethylamide 287P

 M-7 380P
 Magnesium 271P
 Mast cells 1P
 McN A-343 482P
 Mecamylamine 352P
 Median eminence, rat 360P
 Mefenamic acid 67P
 α -Melanocyte stimulating hormone 92P
 Melatonin 300P
 Melperone 386P, 387P
 Membrane binding 301P
 Membrane potential 202P, 565P
 Memory 48P
 Meptazinol 96P, 127P, 128P, 245P, 507P, 508P, 526P
 Mesenteric artery, rat 470P
 Mesenteric blood flow, dog 73P
 Mesenteric vascular bed, rabbit 146P
 Mesenteric vascular bed, rat 548P
 Mesolimbic system, rat 103P, 296P
 Metabolism 224P, 328P, 329P, 343P
 Metaclopramide 16P
 Methohexitone 186P, 555P
 Methotrexate 553P

Methoxy tetrahydro- β -carboline 365P, 366P
 5-Methoxytryptamine 356P
 Methyl aspartate 52P
 3-Methyl-cholanthrene 485P
 α -Methyl noradrenaline 138P, 534P
 Methyl orange binding 570P
 4-Methyl pyrazole 416P
 α -Methyl-*p*-tyrosine 350P
 Methyl xanthines 116P, 394P, 550P
 N-methyl-xenobiotics 62P, 63P
 O-methylation 21P
 α -Methylflouromethyl dopa 535P
 Metoclopramide 16P 484P, 528P, 539P
 Microcirculation 440P
 Microcomputer teaching aid 596P
 Microcomputers 171P, 578P, 579P, 580P, 581P, 582P, 585P, 586P, 587P, 588P, 589P, 590P, 594P
 Microcomputing 577P
 Microelectrodes 582P
 Microiontophoresis 30P
 Microprocessors 581P, 593P
 Microspheres 440P
 Mitochondria 554P
 Monoamine metabolites 102P
 Monoamine oxidase 293P
 Monoamine oxidase inhibitors 349P
 Monoamine uptake 449P
 Morphine 27P, 28P, 104P, 265P, 266P, 306P, 461P, 506P
 Morphine-like compounds 461P
 Morphine tolerance 130P
 Morphine withdrawal 350P
 Multiple-choice questions 171P, 579P, 583P, 596P
 Multiple dosing 573P
 Muscarinic autoreceptors 19P
 Muscarinic ligands 346P
 Muscarinic receptors 93P, 216P, 482P, 517P
 Muscimol 31P
 Myasthenia gravis 275P
 Mydriasis 49P
 Myocardial contractile structures 75P
 Myocardial effects 384P
 Myocardial infarction 178P
 Myocardial ischaemia 176P, 180P
 Myoclonus 81P
 Myoelectrical activity 11P

N. brasiliensis 192P
 Nalorphine 127P
 Naloxone 128P, 178P, 245P, 266P, 305P, 348P, 460P
 Naltrexone 306P, 496P
 Narcotic cue 105P
 Natriuresis 549P
 Negative inotropic agents 524P
 Negative inotropism 79P
 Neostriatum, rat 46P, 360P
 Neural mechanisms 374P
 Neurochemical effects 101P
 Neurogenic vasodilation 205P
 Neuroleptic drugs 232P, 233P, 291P, 308P, 455P
 Neuroleptics, chronic treatment 309P, 456P
 Neuromuscular junction 187P, 276P, 463P, 565P
 Neuromuscular junction, snake 274P
 Neuronal component 398P
 Neuropeptides 442P
 Neurotensin 336P, 439P, 500P
 Neurotoxicity 501P
 Neurotransmission 404P
 Neurotransmitter receptors 230P
 Nicotine 107P, 227P, 228P, 352P, 586P
 Nifedipine 24P, 197P, 255P, 544P
 Nimodipine 384P
 Nisoldipine 254P, 255P
 Nitroglycerine 326P
p-Nitrophenol 330P
 Nitroprusside 519P
 Nociception 267P
 Non-adrenergic, non-cholinergic nerves 218P
 Non-opiate sites 507P
 Non-vascular smooth muscle 204P
 Noradrenaline 23P, 260P, 304P, 335P, 391P, 514P
 (³H)-noradrenaline 390P
 Noradrenaline, cerebral 350P
 Noradrenaline metabolism 78P, 418P
 Noradrenaline release 155P, 212P, 535P
 (³H)-noradrenaline release 447P
 Noradrenaline uptake 34P, 411P
 Noradrenergic neurotransmission 454P
 Normotensive rats 142P
 Nortriptyline metabolites 420P
 Nuclear magnetic resonance 418P
 Nucleoside transport 301P
 Nucleus accumbens, primate 106P
 Nucleus accumbens, rat 37P, 38P, 231P, 315P

 Oedema 429P, 437P
 Oestriol 117P
 Oestrogens 117P, 283P
 Oestrus cycle 496P
 Olfactory cortex, rat 51P
 On-line control 580P
 Opiate agonists 267P
 Opiate antagonists 268P, 351P
 Opiate binding sites, μ -, δ - and K-, 121P
 Opiate receptor binding 572P
 Opiate receptor partial agonists 118P
 Opiate receptors 29P, 122P, 268P, 269P, 272P, 507P, 508P
 Opioid peptides 27P, 121P
 Opioids 460P
 OR H3088 371P

OR NO676 371P
 Ouabain 321P, 390P
 Outflow pathways 84P, 85P
 Oxotremorine-M binding 93P
 Oxypertine 512P

 Pain 304P
 Pain latencies 496P
 Pancreatic polypeptides 335P
 Pancreatone 542P
 Papaverine 164P
 Papillary muscle, guinea-pig 381P
 Papillary muscle, rabbit 184P, 385P
 Paracetamol 60P, 61P
 Parasympathectomy 410P
 Parotid salivary glands 410P
 Peak integration 584P
 Penile artery 205P
 Pentobarbitone 13P
 Pepstatin 495P
 Peptides 314P
 Pergolide 143P
 Perioral movements 309P
 Peroxidase 282P
 PGI₂ see Prostacyclin
 Pharmacogenetics 196P
 Pharmacokinetics 56P, 62P, 64P, 65P, 110P
 Pharmacology 577P
 Phenobarbitone 226P, 558P
 Phenobarbitone hyperdipsia 351P
 Phenoxybenzamine 207P
 Phentolamine 477P
 Phenylethylamine 406P
 Phosphatidyl inositol 466P
 Phospholipids, cell membrane 183P
 N-(phosphonacetyl)-L-aspartate 556P
 Phosphonic analogues 504P
 Physiological saline 47P
 Physostigmine 28P, 345P
³H-piflutixol 83P
 Pilocarpine 216P
 Pinocytosis 432P
 Piprofurol 172P
 Pithed rats 263P, 318P, 411P, 532P
 Pituitary gland, pars intermedia 41P
 Pituitary gland, rat 225P
 Plasma 8P, 419P
 Plasma, rat 391P, 420P
 Plasma factors 493P
 Plasma glucose 286P
 Plasma proteins 56P
 Plasminogen 428P
 Platelet activating factor 125P, 219P, 466P, 467P
 Platelet activating factor-acether 437P
 Platelet aggregation 125P, 166P, 177P, 219P, 467P, 529P
 Platelets 55P, 151P, 167P, 436P, 547P
 Platelets, human 123P, 124P, 165P, 166P, 202P, 528P, 529P, 546P
 Platelets, mouse 125P
 Platelets, rabbit 546P
 Platelets, rat 164P
 Pleurisy 551P
 Poisoning 279P
 Portal vein 523P
 Portal vein, rabbit 379P, 537P
 Portal vein, rat 174P, 206P, 379P
 Postive inotropic agents 524P
 Postsynaptic receptors 206P
 Potassium ion uptake 559P
 Prazosin 277P, 323P
 Pre-aromatic products 60P
 Preganglionic sympathetic nerve activity 323P
 Pregnancy 436P
 Prenalterol 382P
 Pressure 368P
 Presynaptic β -adrenoceptors 407P
 Presynaptic receptors 404P
 Primaquine 57P
 Primycin 274P
 Prolactin 117P
 Propanolol 99P, 224P, 281P, 486P
 P-propylanisole 328P
 Prostacyclin 8P, 10P, 164P, 165P, 222P, 547P
 Prostaglandin metabolism 3P, 6P, 7P, 220P, 284P
 Prostaglandin 'reciprocal coupling factor' 6P
 Prostaglandins 7P, 9P, 12P, 160P, 161P, 166P, 169P, 220P, 223P, 257P, 443P, 491P, 492P, 493P, 510P, 548P, 549P
 Protein binding 58P, 224P, 423P
 Protein modification 39P
 Prothrombin complex 129P
 Pulmonary reactivity, guinea-pig 393P
 Purine receptors 191P
 Purines 79P, 157P, 537P
 Pyrimidines 556P

 (³H)-quinuclidinyl benzilate 410P
 Quipazine 243P

 Ra purine receptor 157P
 Radio-chromatogram 584P
 Radioligand binding 508P, 571P
 Rauwolscine 261P
 Rebound contraction 218P
 Receptor-mediation 430P
 Receptor subtypes 112P, 480P, 482P, 517P
 Receptors 502P
 Receptors, presynaptic 476P
 Refractory period 248P, 593P
 Regional blood flow 526P
 Regulatory standards 573P
 Reinforcement 104P
 Relaxations 382P

Renal failure 110P
 Renin 131P, 132P
 Renin-angiotensin system 495P
 Renin-inhibition 495P
 Renin release 530P
 Repeated doses 266P
 Reperfusion arrhythmias 221P
 Repolarization 431P
 Reserpination 477P
 Reserpine 152P, 515P
 Respiration 130P
 Respiratory depression 28P, 118P
 Respiratory mucosa 378P
 Respiratory tract 441P
 Retina 366P
 Retina, carp 20P
 Retina, rabbit 19P, 367P
 Retina, rat and mouse 365P
 Retinylacetate 329P
 Retractor penis muscle, bovine 189P
 Ro-8-4650 364P
 Ro 15-1788 240P, 241P, 451P
 RS21361 261P
 RX 781094 532P

 Salbutamol 392P, 407P
 Salicylic acid 489P
 Scatchard plots 570P
 Secretion 14P
 Seizure thresholds 300P
 Seizures 89P
 Selenium 339P
 Self assessment 579P, 596P
 Seminal vesicle, rat 415P
 Septum analeptic 231P
 Serum 8P
 Sex differences 417P
 Sexual differentiation 566P
 Sgd 101/75 543P
 Shock 128P
 Skeletal muscle 116P, 186P, 503P
 Skin, guinea-pig 494P, 550P
 Skin, human 168P, 443P
 Skin, mouse 485P
 Skin, rat 193P
 Skin grafts, rat 68P,
 Sleeping time 555P
 Slow potentials 548P
 Small intestine, rabbit 217P
 Smooth muscle 25P, 190P, 211P, 404P
 Smooth muscle contraction 210P
 Smooth muscle ionic fluxes 15P
 Sodium 295P
 Sodium channels 525P
 Sodium cromoglycate 569P
 Sodium-dependent binding 198P
 Sodium nitroprusside 472P
 Somatostatin 439P, 440P
 Soya bean 552P
 Spasmogen 491P
 Spasmolytic activity 542P

(³H)-spiperone binding 41P, 367P
 Spleen, rat 538P
 Spontaneous contractility 327P
 Spontaneous release 403P
 Spontaneously hypertensive rats 133P,
 438P, 522P
 Stable isotopes 556P
 Stereotypy 31P, 459P
 Steroids secretion 434P
 Stimulus isolation 115P
 Stomach, rat and kitten 562P
 Stomach muscle, guinea-pig 156P
 Stress 32P
 Striatal efferents 362P
 Striatal slices, rat 235P
 Striatum, rat 358P, 505P
 Structure/activity 252P, 433P, 459P
 Substance P 378P, 441P
 Substance P analogues 112P, 113P, 114P,
 337P
 Substantia nigra, rat 31P
 Sucrose-gap 565P
 Sulfinpyrazone 423P
 Sulphasalazine 7P
 Sulphydryl groups 39P
 Sulpiride 82P, 83P, 462P
 Superfusion 585P
 Superior cervical ganglion, rat 18P,
 113P, 298P
 Superior colliculus, rat 457P
 Supersensitivity 214P
 Sympathetic ganglia 17P
 Sympathetic neurotransmission 134P
 Sympathetic nerves 478P
 Sympathetic transmission 403P
 Sympathetic vasoconstriction 335P
 Synaptic excitation 52P

 T₃, 435P
 Tachycardia 250P
 Tail immersion test 267P
 Tamoxifen 282P
 Tanshinone 149P
 Taurine derivative 341P, 342P, 343P,
 344P
 Teaching 171P
 Teaching Aid 583P
 Temperature regulation 452P
 Terbutaline 213P, 399P, 402P
 Tetraethylammonium 186P
 Tetrahydroisoquinolines 54P
 Tetrahydropapaveroline 54P
 Theophylline 144P
 Thermogenesis 111P
 Thermometer 581P
 Thiorphan 105P, 120P
 Thioureas 574P
 Threshold test 369P
 Thromboxane 221P, 492P
 Thromboxane A₂ 167P, 177P
 Thromboxane B₂ 3P

Thromboxane receptors 546P
 Thromboxane synthetase inhibition 547P
 Thymus, rat 275P
 Thyroid 417P
 Thyroidectomy 173P
 Thyrotrophin releasing hormone 231P,
 499P, 500P
 Tissue bath 589P
 Tissue culture 435P
 Tissues, guinea-pig 259P
 α -Tocopherol 523P
 Tolerance 244P, 265P
 Tolmesoxide 200P
 Toxicology 343P
 Trachea, cat 22P
 Trachea, guinea-pig 157P, 158P, 402P
 Trachea, rabbit 401P
 Trachea, rat 396P
 Transmitter substance 189P
 Transmitter uptake 23P
 Trazodone 108P
 Tremor 345P
 Triamterine 377P
 Trifluoperazine 25P
 5,12,20-Trihydroxy-6,8,-1,14-eicosatet-
 raenoic acid 163P
 Trimetaphan 187P
 Tritium release 513P
 Tryptamine 81P, 242P, 521P
 Tryptophan, low dietary levels 356P

 UK-14,304 249P
 UK-37,248 221P
 UK-37,248-O1 285P
 Ultraviolet 169P
 Uptake 365P
 Urapidil 316P
 Urethane anesthesia 391P
 Urine 215P, 419P
 Uterus 282P

 Vagus nerve, rat 16P
 Vas deferens, guinea-pig 564P
 Vas deferens, mouse 155P, 196P, 212P
 Vas deferens, rabbit 268P
 Vas deferens, rat 29P, 211P, 319P,
 414P, 475P, 476P, 477P, 543P
 Vascular activity 5P
 Vascular contractions 326P
 Vascular muscle 472P
 Vascular permeability 144P, 399P, 441P
 Vascular smooth muscle 173P, 204P,
 414P
 Vasculature, dog 200P
 Vasoactive intestinal polypeptide
 278P, 314P, 334P
 Vasoconstriction 137P
 Vasodilatation 9P, 146P, 174P, 200P,
 253P, 337P, 374P, 375P, 386P, 405P
 Vasopressin 122P, 123P, 466P, 468P
 Vasopressin receptor, subtype 468P
 Vasopressin V₁ receptors 123P
 Vasopressin release 159P
 Ventricular arrhythmias 178P, 182P
 Ventricular dysrhythmias 179P
 Ventricular fibrillation 181P
 Ventilation 262P
 Verapamil 24P, 197P, 467P, 544P
 Video recording 575P
 Vitamin K 129P, 558P

 Water, secretion 160P
 Weight loss 111P
 Wet-dog shaking 500P
 Withdrawal syndromes 74P
 WY 26002 506P

 Yohimbine 154P, 264P, 340P, 532P
 Yohimbine and its diastereoisomers 533P

 Zimelidine 357P, 506P