

Index

Page numbers in *italic*, e.g. 38, indicate references to figures.

- abciximab 38, 39
absences 50
absorption of drugs 6–7
acamprosate 63
acarbose 72, 73
ACE inhibitors 30, 31, 36
acebutolol 18
acetazolamide 20, 21, 28, 29
acetylator phenotype 8, 9, 71
acetyl cholinesterase 2
acetylcholine 2, 12, 13, 15, 35, 45
acetylcholine receptors 13, 15
acetylcysteine 33, 92, 93
aciclovir 82, 83
acid secretion in stomach 25
action potentials 10, 11
activated charcoal 93
active transport processes 3
adalimumab 90
adenosine 34, 35
Addisonian crisis 66, 67, 101
adefovir 83
administration routes for drugs 6, 7
adjuvant chemotherapy 88, 89
adrenaline 8, 15
adrenoreceptors 14, 15
 antagonists 66, 67, 94
adverse effects/reactions of drugs 3, 94–5
 anion exchange resins 41
 anti-cancer drugs 89
 benzodiazepines 49
 fibrates 41
 glucocorticoids 67
 local anaesthetics 11
 loop diuretics 29
 nitrates 33
 NSAIDs 65
 oestrogens 69
 oral contraceptives 69
 statins 41
 sulphonamides 75
affective disorders 56–7
affinity constant 5
affinity of drugs 2, 5
age-related macular degeneration (AMD) 21
agonists 2, 4
 inverse 49
 partial agonists 4, 5
albendazole 85
alcohol (ethanol) 6, 8, 44, 62, 63, 92
aldosterone 2, 28, 29, 66
aledronate 67
alfentanil 47, 59
alimemazine 23
alkylating agents 88, 89
allergens 22
allergy 95
allopurinol 65
alpha-blockers 19, 30, 31
alprazolam 48
alteplase 38, 39
altitude sickness 29
aluminium hydroxide 25
Alzheimer's disease 45
amantadine 53, 82, 83
amfetamine 8, 18, 19, 62, 63
amikacin 78, 79, 28
amiloride 29
amine oxidase 8
amino acids 44–5
aminoglycosides 12, 13, 78, 79
aminosalicylates 26, 27
amiodarone 34, 35
amisulpride 54
amitriptyline 56, 57
amlodipine 30, 31, 32, 33
amoebiasis 87
amoebic dysentery 86
amoxicillin 24, 76, 77
amphotericin 80, 81, 86
ampicillin 76, 77
anabolic steroids 68
anaemia 42–3
anaesthetics
 general 46–7
 local 10–11
anakinra 90
anandamide 45
anaphylactic reactions 77
anaphylaxis 22–3, 95
anastrozole 89
androgens 68
angina 32–3
 angina pectoris 32
angiotensin converting enzyme (ACE)
 inhibitors 30, 31, 36
angiotensin receptor blockers (ARBs) 30,
 31, 36
anthelmintics 84–5
anionic exchange resins 40, 41
antacids 24, 25
antagonists 2, 4, 5
 chemical antagonists 5
 competitive antagonists 4, 5, 12
 irreversible antagonists 4, 5
 non-competitive antagonists 5
 physiological antagonists 5
antiangina drugs 32–3
antiarrhythmic drugs 34–5
antibacterial drugs 74–5, 76–7,
 78–9
antibiotics 27
anticholinesterases 2, 12, 16, 17
anticoagulants 38, 39
anticonvulsants 51
anticytokine drugs 91
antidepressants 48, 49, 56–7
antidiabetic agents 72–3
antidiarrhoeal drugs 27
antiemetics 60–1
antiepileptic drugs 50–1
antifungal drugs 80–1
antihistamines 22, 23, 61
antihypertensive drugs 30–1
antimetabolites 88, 89
antimotility drugs 26, 27
antimuscarinics 46, 47, 52, 53, 60
antiplatelet drugs 32, 38, 39
antiproliferative drugs 91
antipseudomonal penicillins 76–7
antipsychotic drugs 54–5
antirheumatoid drugs 90–1
antispasmodics 26
antithyroid drugs 70–1
antiviral drugs 82–3
anxiety states 48
anxiolytics 48–9
apolipoproteins 40
apomorphine 52
apraclonidine 21
aprepitant 60, 61
arachis oil 26
aripipazole 54, 55
artemether 87
artemisinin 87
artesunate 86, 87
artether 87
Ascaris lumbricoides 84, 85
Aspergillus fumigatus 80, 81
aspirin 8, 32, 38, 39, 64, 93
asthma 22–3
atenolol 18, 30, 33, 34, 71
atherosclerosis 40, 41
atorvastatin 40
atovaquone 86, 87
atracurium 12, 13
atrial fibrillation 35, 36, 38, 39
atropine 16, 17, 20, 26, 34, 92
atypical antipsychotics 54, 55
aurothiomalate 90, 91
autonomic nervous system 14–15
azathioprine 27, 90, 91
azithromycin 78, 79
aztreonam 76
baclofen 45
bactericidal agents 75
Bacteriodes 75
bacteriostatic agents 75
barbiturate receptor 49
barbiturates 8, 45, 48, 62
basal ganglia 52
basiliximab 90, 91
beclomethasone 22, 23
beclomethasone dipropionate 67
bendroflumethiazide 28, 29, 30, 36
benign prostate hypertrophy (BPH) 19, 69
benserazide 52
benzatropine 16
benzocaine 10
benzodiazepines 45, 46, 48, 49,
 62, 63
benzylpenicillin 76
beta-blockers 18, 19, 20, 31, 32, 33, 36,
 37, 48
betahistine 61
betamethasone 66, 67
bethanecol 16, 17
bevacizumab 20, 21, 89
bezafibrate 40, 41
bicarbonate 3, 21, 25, 29, 65, 93
biguanides 73
bile acids 26
biliary excretion of drugs 7
binding assays 5
binding of drugs 4–5
bioassays 4, 5
bioavailability of drugs 7
bismuth chelate 24, 25
bisocodyl 26
bisphosphonates 67
bisoprolol 30, 36
bleomycin 88, 89
blood coagulation 38–9
blood dyscrasias 95
Borrelia burgdorferi 79
botulinum toxin 12, 13

- bran supplement 26
- brimonidine 20, 21
- broad-spectrum penicillins 76
- bromocriptine 52, 53
- bronchial asthma 22
- bronchodilators 22, 23
- Brugia malayi* 85
- budesonide 22, 23, 27, 67
- bulk laxative 26
- bumetanide 28, 36
- bupivacaine 10
- buprenorphine 58, 59, 63
- bupropion 63
- buserelin 89
- buspirone 48
- busulphan 88
- butyrophenones 55

- cabergoline 52
- caffeine 44
- calcineurin inhibitors 91
- calcium channel blockers 2, 30, 31, 32, 33
- Campylobacter* 75
- cancer drugs 88–9
- Candida albicans* 79
- cannabinoids 60
- cannabis 62, 63
- capecitabine 88
- carbamazepine 50, 51, 56
- carbidopa 52
- carbimazole 70, 71, 94–5
- carbon monoxide 92
- carbonic anhydrase inhibitors 21, 28, 29
- carcinogenesis 95
- cardiac action potential 34–5
- cardiac glycosides 2, 3
- cardioselectivity 18, 19, 31, 33, 37
- carvedilol 18, 36
- casprofungin 80, 81
- cataracts 20, 67, 72
- catechol-O-methyltransferase (COMT) 19
- cefadroxil 76, 77
- ceftazidime 76, 77
- ceftriaxone 76, 77
- cefuroxime 76, 77
- celecoxib 64, 65
- central transmitter substances 44–5
- cephalosporins 76, 77, 94–5
- cestodes 84, 85
- cetirizine 22, 23
- Chagas disease 87
- charcoal, activated 93
- chelating agents 42, 92
- chemical antagonists 5
- chemoreceptor trigger zone (CTZ) 60
- Chlamydia* 9
- chlomethiazole 62
- chloral hydrate 48, 49, 62
- chlorambucil 88
- chloramphenicol 78, 79
- chlordiazepoxide 63
- chlormethiazole 63
- chloroquine 20, 86, 87
- chlorphenamine 22, 23
- chlorpromazine 54, 55
- chlortalidone 30, 31
- choline esters 17
- cholinergic nerve terminals 17
- cholinergic synapses 16–17
- cholinomimetics 16, 17, 26
- chylomicrons 40, 41
- ciclosporin 90, 91
- ciliary body 21
- cimetidine 8, 24, 25
- cinnarizine 60, 61
- ciprofloxacin 74, 75
- cisatracurium 13
- cisplatin 88
- citalopram 56
- clarithromycin 24, 78, 79
- clavulanic acid 77
- clearance of drugs 7

- clindamycin 87
- clobazam 50
- clomethiazole 48, 49
- clomifene 68, 69
- clonazepam 61
- clonidine 18, 30, 63
- clopidogrel 32, 38, 39
- Clostridium difficile* 77
- clotrimazole 80, 81
- clozapine 54, 55, 94–5
- co-amoxiclav 77
- cocaine 10, 18, 19, 62
- codeine 26, 58, 59
- colchicine 65
- colestipol 40, 41
- colestyramine 40, 41
- competitive antagonists 4, 5, 12
- concentration-response curves 4
- concentration-time curve, exponential 6, 7
- conjugation 8
- constant fraction elimination 6
- contraceptives, oral 69
- cornea of the eye 20
- coronary artery bypass grafting (CABG) 33
- corticosteroids 20, 22, 23, 26, 27, 66–7, 91
- corticotrophin (ACTH) 67
- corticotrophin-releasing hormone (CRH) 66
- cortisol 2
- co-trimoxazole 75, 86
- Crohn's disease 27
- cromoglicate 22, 23
- Cryptococcus neoformans* 80
- cycle-specific drugs 88
- cyclizine 60, 61
- cyclo-oxygenase (COX) 2
- cyclo-oxygenase inhibitors 64
- cyclopentolate 20, 21
- cyclophosphamide 88, 89
- cycloplegia 20
- cytotoxic antibiotics 89
- cytarabine 88
- cytochrome P450 monooxygenase system 8, 9

- dabigatran 38, 39
- dactinomycin 88
- dalfopristin 78, 79
- dalteparin 38
- dapsone 87
- darbepoetin 43
- darifenacin 17
- dependence 48, 49, 58
- depolarizing blockers 12
- depression 56–7
- depressive states 56
- dermatophytes 80
- desensitization 5
- desferrioxamine 42, 92
- desflurane 46, 47
- desmopressin 29
- desogestrel 68
- dexamethasone 61, 66, 67
- dexamfetamine 19, 62
- dextropropoxyphene 58
- diabetes mellitus 72
- diabetes type-I 72
- diabetes type-II 72
- diacetylglycerol 3, 17
- diamorphine (heroin) 58, 59, 62, 63
- diazepam 48, 50
- diclofenac 47, 64, 65
- dicycloverine 26
- didanosine 83
- diethylcarbamazine 84
- diethylstilbestrol 68, 89
- differential block 10
- digoxin 34, 36
- dihydrocodeine 58
- diloxanide 86
- diltiazem 32, 33
- dimethyltryptamine (DMT) 62
- diphenoxylate 26
- Diphylobothrium latum* 85
- dipyridamole 38, 39

- disatracurium 12
- disease modifying antirheumatic drugs (DMARDs) 91
- disopyramide 34, 35
- distigmine 12, 16
- distribution of drugs 7
- disulfiram 63
- diuretics 28–9
- dobutamine 18, 36, 37
- docusate 26
- dolutegravir 82
- domperidone 27, 52, 60, 61
- donepezil 45
- dopamine 2, 37, 45, 52
- dopamine agonists 52, 53
- dopamine antagonists 60
- dopamine receptors 55
- dopaminergic drugs 53
- dorzolamide 20, 21
- dosage of drugs 7
- dose-related adverse effects 94
- dosulepin 56, 57
- doxazosin 18, 30, 31
- doxorubicin 88
- doxycycline 78, 87
- droperidol 47
- drug dependence 62
- drug interactions 95
- drug misuse 62–3
- drug resistance 5, 89
- drug-acetylating enzymes 9
- drug-receptor interactions 4–5
- duodenal ulcer 24, 96
- dynorphins 58, 59
- dyskinesia 53, 54

- echinocandins 80, 81
- econazole 81
- ectopic focus 34
- edrophonium 12, 16, 17
- efavirenz 83, 82
- emesis 92
- emtricitabine 82
- enalapril 30, 36, 37
- endocannabinoid 45
- endogenous opioids 58
- endorphins 58, 59, 67
- enflurane 47
- enfuvirtide 82
- enkephalins 44, 45, 58, 59
- enoxaparin 38
- entacapone 52, 53
- Entamoeba histolytica* 75
- Enterobius vermicularis* 85
- enzymes 3
 - induction 8, 9
 - inhibition 8, 9
- ephedrine 18
- epilepsy 50–1
- epinephrine 8, 14, 18, 19, 22
- epplerone 36
- epoetins 43
- eptifibatid 32, 38, 39
- equilibrium dissociation constant 5
- erectile dysfunction 27
- erythromycin 78, 79
- erythropoietin 42, 43
- Escherichia coli* 75, 77
- escitalopram 48
- estradiol 2, 68, 69
- etanercept 90
- ethambutol 79
- ethanol see alcohol
- ethinylestradiol 68
- ethosuximide 50
- ethylene glycol poisoning 92
- etidronate 67
- etomidate 46, 47
- etoricoxib 64, 65
- everolimus 33
- excretion of drugs 7
- exenatide 72, 73
- exocytosis 12, 13
- exponential curves 6

- extrapyramidal side-effects of antipsychotics 54
 eye, structure of 20
 ezetimibe 40, 41
- faecal softeners 26
 fenbufen 65
 fenofibrate 40
 fentanyl 47, 58, 59
 ferrous fumarate 42
 ferrous gluconate 42
 ferrous sulphate 42
 fexofenadine 22, 23
 fibrates 40
 fibrinolytic drugs 38, 39
 filarial infection 85
 finasteride 69
 first order elimination kinetics 6
 flecainide 34, 35
 flucloxacilin 76
 fluconazole 80, 81
 flucytosine 80, 81
 fludrocortisone 66, 67
 flukes 85
 flumazenil 49
 fluorescein 20
 fluorouracil 88, 89
 fluoxetine 56
 flupenthixol 54, 55
 fluphenazine 54, 55
 flutamide 89
 focal seizures 50
 5-CH₃-H₄ folate-homocysteine methyltransferase 43
 folic acid 42, 43
 follicle-stimulating hormone (FSH) 68
 fomepizole 92
 fondaparinux 38, 39
 fungal infections 80-1
 furosemide 28, 29, 36
- gabapentin 50, 45
 galantamine 45
 gallstone dispersants 27
 gamma-aminobutyric acid (GABA) 2, 44
 GABA receptors 49
 ganciclovir 82, 83
 ganglion blockers 16
 ganglion stimulants 16
 gastric acid reduction 24
 gastrin 24, 25
 gastrointestinal tract
 motility and secretions 26-7
 peptic ulcer 24-5
 gemfibrozil 41
 general anaesthetics 46-7
 genetic factors in drug metabolism 8
 genetic polymorphisms 9
 gentamicin 78, 79
Giardia lamblia 75, 87
 giardiasis 87
 glaucoma 20, 21
 glibenclamide 72
 glicazide 72
 glipizide 72
 glitazones 73
 glomerular filtration rate (GFR) 9
 glucocorticoids 66, 67, 88
 glucose tolerance 29
 glutamate 2, 44, 45
 glycerol 26
 glyceryl trinitride 32, 33
 glycine 45
 gonadorelin 89
 gonadotrophins 68, 69
 gout 65
 granisetron 60
 Graves' disease 70
 griseofulvin 80
 guanosine triphosphate (GTP)-binding proteins (G-proteins) 3
- Haemophilus influenzae* 77
 half-life of drug concentration 7
- hallucinogenic drugs 63
 haloperidol 54, 55
 halothane 46, 47
 hay fever 22-3
 heart failure 36-7
 helminths 84-5
 hemicholinium 12
Helicobacter pylori 24, 96
 heparin 38, 39, 94-5
 herpes simplex virus (HSV) 83
 histamine 2, 22, 45
 hookworms 84-5
 hormones 2, 3
 human chorionic gonadotrophin 68
 hydralazine 30, 31
 hydrochloroquine 90, 91
 hydrocortisone 22, 26, 66, 67
 hydrolysis of drugs 8, 9
 hydrophilic drugs 8
 hydroxycobalamin 42
 hyoscine 16, 17, 45, 47, 60, 61
 hypercholesterolaemia 41
 hyperglycaemia 67, 72, 73
 hyperlipidaemias 41
 hypersensitivity 77, 95
 hypertension drugs 30-1
 hyperthyroidism 71
 hyperuricaemia 29
 hypnotics 48-9
 hypoglycaemia 78, 94
 hypokalaemia 29
 hypothyroidism 71
- ibuprofen 64, 65
 imidazoles 81
 imipramine 48, 56, 57
 immunoglobulins 82
 immunosuppressants 90-1
 incretin analogues 72, 73
 indapamide 30, 31
 indometacin 64, 65
 infertility treatment 69
 inflammatory bowel disease (IBD) 27
 infliximab 27, 90
 inhalation administration of drugs 7
 inhaled steroids 22
 inositol triphosphate 3, 17, 19, 31
 inotropic agents 36, 37
 insulin 2, 72, 73
 integrase inhibitors 82, 83
 interferons (IFNs) 82, 83
 intermolecular forces 4-5
 international normalized rate (INR) 100
 intramuscular injection of drugs 7
 intraocular pressure (IOP) 20, 21
 intravenous injection of drugs 6, 7
 intrinsic efficacy 4, 5
 intrinsic factor 42
 inverse agonists 49
 iodides 71
 iodine 70
 ion channels 3
 ipecacuanha syrup 92
 ipratropium 16, 22, 23
 iron 43
 iron dextrin 43
 iron toxicity 43
 irreversible antagonists 4, 5
 isocarboxazid 56
 isoflurane 46, 47
 isoniazid 79
 isoprenaline 19
 isosorbide dinitrate 32, 33
 isosorbide mononitrate 32, 33
 ispaghula 26
 itraconazole 80, 81
 ivermectin 84, 85
- ketamine 46, 47
 ketoacidosis 71
 ketoconazole 80, 81
 kidneys 28-9
- labyrinthitis 61
 lactulose 26
 lamivudine 83
 lamotrigine 50, 51
 lansoprazole 24, 25
 laser trabecular surgery 21
 latanoprost 21
 laxatives 26
 Leishmaniasis 87
 lenograstim 42, 89
 lens of the eye 20
 less active metabolites 8
 letrozole 89
 leucotrienes 22
 levamisole 84
 levetiracetam 50
 levobupivacaine 10
 levodopa 52, 53
 levonoreggestrel 68
 levothyroxine 70, 71
 lidocaine 8, 10, 34, 35
 linezolid 78
 liothyronine 70, 71
 lipid solubility of drugs 6
 lipid-lowering drugs 40-1
 lipoprotein lipase 40, 41
 lipoproteins 40, 41
 liraglutide 72, 73
 lisinopril 30, 36
 lithium 56
 liver drug metabolism 9
 local anaesthetics 10-11
 lofepramine 56, 57
 log concentration-response curves 4
 loop diuretics 28, 29
 loperamide 26, 27
 loratadine 23
 lorazepam 48, 50
 lormetazepam 48
 losartan 30, 31, 36
 low-density lipoproteins (LDLs) 32, 40
 lubricants 26
 Lugol's solution 70
 lumefantrine 87
 lumiracoxib 64, 65
 luteinizing hormone (LH) 44, 89
 lvothyroxine 2
 lymphatic filariasis 85
 lysergic acid diethylamide (LSD) 62, 63
 Lyme disease 79
- macrolides 78, 79
 magnesium hydroxide 25
 magnesium sulphate 26
 mania 56
 mast cells 23
 mebendazole 84, 85
 mediators of inflammation 22, 23
 mefloquine 86
 melarsoprol 86
 Ménière's disease 61
 menotrophin 68, 69
 mercaptopurine 27, 88
 meropenem 76, 77
 mesalazine 26, 27
 mescaline 62
 mesterolone 68
 mestranol 68
 metabolism of drugs 8-9
 methadone 8, 58, 59, 63
 methicillin 76
 methimazole 70
 methotrexate 27, 88, 89, 90, 91
 methyl dopa 18, 30, 31
 methylenedioxymethamphetamine (MDMA; ecstasy) 62, 63
 methylmalonyl-CoA mutase 43
 methylphenidate 19
 methylprednisolone 66
 metoclopramide 27, 60, 61
 metolazone 28
 metoprolol 18, 30, 36
 metronidazole 24, 74, 75, 86

- mexiletine 34
 miconazole 80, 81
 microsomal drug metabolism 8, 9
 midazolam 9, 49
 migraine 60, 61
 miltefosine 86
 mineralocorticoids 66, 67
 minocycline 78
 minoxidil 30, 31
 miosis 20
 mirtazepine 56, 57
 misoprostol 24, 65
 misuse of drugs 62–3
 mivacurium 12
 moclobemide 56, 57
 modafinil 19
 monoamine oxidase (MAO) 2, 19
 monoamine oxidase inhibitors (MAOIs) 56, 57
 monoamine theory of depression 56–7
 monoamines 44, 45
 monobactams 38
 monoclonal antibodies 88, 89, 91
 montelukast 64
 morphine 8, 26, 58, 59, 62
 motility stimulants 26–7
 motion sickness 60, 61
 moulds 81
 movement disorders 54, 55
 mucosal protectants 24
 mucosal resistance 24
 mucus layer 25
 muscarinic agonists 16
 muscarinic antagonists 16, 17
 muscarinic effects 15
 muscarinic receptors 15, 16
 myasthenia gravis 12, 13
Mycobacterium tuberculosis 79
 mycophenolate mofetil 90, 91
Mycoplasma pneumoniae 79
 mydriasis 20, 21
 myocardial infarction 30, 32, 33
 myxoedema 71
- nabilone 60, 61
 nabumetone 64
 nadolol 18
 nalbuphine 59
 nalidixic acid 74, 75
 naloxone 8, 59, 92
 naltrexone 63
 nandrolone 68
 naproxen 64, 65
 nausea 60–1
Necator americanus 84
 nematodes 84–5
 neomycin 78
 neostigmine 12, 16, 17
 nerve block 11
 netilmicin 78, 79
 neuraminidase inhibitors 82, 83
 neuroleptic drugs 54–5
 neuroleptic malignant syndrome 55
 neuromuscular junction drugs 12–13
 neuropathic pain 51, 57, 58
 neuropeptides 45
 neurotransmitters 2
 neutropenia 42
 nevirapine 82, 83
 niclosamide 84
 nicotine 16, 44, 62
 nicotine replacement therapy (NRT) 63
 nicotinic acid 40, 41
 nicotinic agonists 16
 nicotinic effects 15
 nicotinic receptors 15
 nifedipine 30, 31, 32, 33
 nigrostriatal tract 52
 nitrates 32, 33
 adverse effects 33
 nitrazepam 48
 nitric oxide (NO) 45
 5-nitroimidazoles 44–5
 nitroprusside 30, 31
- nitrous oxide 46, 47
 nocardiasis 75
 non-competitive antagonists 5
 non-nucleoside reverse transcriptase inhibitors (NNRTIs) 82
 non-specific drug actions 2
 non-steroidal anti-inflammatory drugs (NSAIDs) 47, 64–5, 90
 noradrenaline 15
 norepinephrine 2, 14, 18, 19, 35, 45
 norepinephrine transport 3
 norethisterone 68
 norfloxacin 74, 75
 nucleoside reverse transcriptase inhibitors (NRTIs) 82
 nystatin 80
- ocular pharmacology 20–1
 oestrogens 68, 69
 olanzapine 54, 55
 olsalazine 27
 omeprazole 24, 25
 onchocerciasis 85
 ondansetron 60, 61
 opioid receptors 58, 59
 opioids 46, 47, 58–9, 62, 63, 93
 oral administration of drugs 6, 7
 oral contraceptives 8, 69
 organophosphorus compounds 16, 17
 orphenadrine 52
 oseltamavir 82, 83
 osmotic diuretics 28
 osmotic laxatives 26
 ototoxicity 79
 oxidation of drugs 8, 9
 oxprenolol 18
 oxybuprocaine 10
 oxycodone 58
 oxygen 20, 21, 33
- pacemaker cells 34, 35
 pacemakers, artificial 35
 paclitaxel 33, 88, 89
 palivizumab 83
 pancreatic supplements 26, 27
 pancreatin 26, 27
 pancuronium 12, 13
 paracetamol 64, 92, 93
 parasitism 84–5, 86–7
 parasympathetic nervous system 13, 14–15, 16–17
 paravertebral ganglia 14
 parenteral iron 43
 parietal cells 15, 24, 25, 43
 Parkinson's disease 52–3
 paromycin 93
 paroxetine 48, 56
 partial agonists 4, 5
 partial seizures 50
 pegaptanib 20, 21
 penicillamine 90, 91
 penicillins 76, 77, 94–5
 pentamidine 86
 pentazocine 58, 59
 peptic ulcer 24–5
 peptides 44
 percutaneous coronary intervention (PCI) 33
 pergolide 52
 pericyazine 54
 perphenazine 54
 pethidine 58, 59, 62
 pharmacodynamics 2
 pharmacogenetics 8, 9
 pharmacokinetics 2
 phase-specific drugs 88
 phenelzine 56, 57
 phenobarbital 8, 50
 phenothiazines 55
 phenoxybenzamine 18
 phenoxymethylpenicillin 76, 77
 phenolamine 18
 phenylephrine 20, 21
 phenytoin 6, 8, 50, 51, 94–5
 physiological antagonists 5
 physostigmine 17
- phytomenadione 39
 pilocarpine 16, 17, 20, 21
 pindolol 18
 pioglitazone 72
 piperacillin 76, 77
 piperazine 84
 pipotiazine 54
 piroxicam 65
 plasma pseudocholinesterase 9
 plasmids 75, 76, 79
Plasmodium 86, 87
 platelet activating factor (PAF) 22
 pneumocytosis 87
 poisoning 92–3
 polyenes 81
 polymorphisms 9
 posaconazole 80
 potassium channel blockers 30
 potassium-sparing diuretics 28, 29
 pralidoxime 17, 92
 pramipexole 52
 prasugrel 39
 pravastatin 40
 praziquantel 84, 85
 prazosin 18, 19, 31
 prednisolone 22, 26, 27, 66, 67, 89, 90
 pregabalin 51
 pregnancy 51, 61
 premedication 47, 47
 presynaptic agents 13
 prevertebral ganglia 14
 prilocaine 10
 primaquine 86, 87
 primary generalized seizures 50
 principles of drug action 2–3
 probenecid 65, 77
 procainamide 34, 35
 procaine 8, 10
 prochlorperazine 60, 61
 procyclidine 52
 prodrugs 8
 prodynorphin 59
 proenkephalin 58
 progesterone 68
 proguanil 86, 87
 promethazine 22, 23
 promethazine 60, 61
 pro-opiomelanocortin (POMC) 59, 87
 propantheline 26
 propofol 46, 47, 50
 propranolol 8, 18, 34, 48, 71
 propylthiouracil 70, 71
 prostaglandin analogue 20
 prostaglandins 2, 22
 protease inhibitors 82, 83
 protective factors in peptic ulcers 25
 proton pump inhibitors 24, 25
 protozoa 84
 proxymetacaine 10
 psilocin 62
 pseudocholinesterase 9, 11, 13
Pseudomonas aeruginosa 75
 psychedelic drugs 63
 pyrazinamide 79
 pyridostigmine 12, 16, 17
 pyrimethamine 86, 87
- Q-fever 79
 quetiapine 54
 quinidine 94–5
 quinine 86, 87
 quinolones 74, 75
 quinupristin 78, 79
- raltitrexed 88
 ramipril 36
 ranibizumab 20, 21
 ranitidine 24, 25
 rasagiline 52, 53
 rashes 95
 ratelgravir 82
 reboxetine 56

- receptors 2, 3, 4–5
- rectal administration of drugs 7
- reduction of drugs 8, 9
- rehydration therapy 27
- remifentanyl 59
- renal excretion of drugs 7
- repaglinide 72
- reserpine 56
- resistance to drugs 5
- reteplase 38
- reticular activating system (RAS) 47
- retina of the eye 21
- retinopathy 20, 91
- revascularization 33
- rheumatoid arthritis (RA) 90
- Riamet 86, 87
- ribavirin 82, 83
- rifampicin 74, 79
- rimonabant 20
- riotigotine 52
- risperidone 54, 55
- ritonavir 82, 83
- rituximab 88, 89
- rivaroxiban 38
- rivastigmine 45
- rocuronium 12, 13
- ropinirole 52
- ropivacaine 10
- roundworms 84–5
- routes of drug administration 6, 7

- salbutamol 18, 22, 23
- salmeterol 22, 23
- Salmonella* 27, 75, 77
- saquinavir 82, 83
- sarin 17
- saxagliptin 73
- scabies 85
- schistosomiasis 85
- schizonticides 86, 87
- second messengers 2, 3
- secondary generalized seizures 50
- seizures 50
- selective serotonin reuptake inhibitors (SSRIs) 49, 56
- selectivity 89
- selegiline 52, 53
- senna 26
- serotonin 2, 45
- serum sickness 95
- sevoflurane 46, 47
- sex hormones 68–9
- sildenafil 15
- simvastatin 40
- sleep disorders 56
- smoking 33, 63
- sodium (Na⁺) channels 10–11
- sodium bicarbonate 25
- sodium pump 3
- solifenacin 17
- somatostatin 44
- sotalol 34
- spasmogens 23
- specificity of drugs 3
- spironolactone 28, 29, 30, 36
- stable angina 32
- statins 40
- status epilepticus 49, 50, 51
- stavudine 83
- Streptococcus* 39, 75, 77
- streptokinase 38
- steroid hormones 88
- stibogluconate 86
- stimulant laxatives 26
- stomach acid secretion 25
- streptogramins 79
- streptokinase 39
- streptomycin 78, 79
- subcutaneous injection of drugs 7
- sublingual administration of drugs 6, 7
- substance P 44
- sucralfate 24, 25

- suicide attempts/behaviours 57, 92, 97, 99
- sulfadiazine 74
- sulfadoxine 74, 87
- sulfamethoxazole 74
- sulfasalazine 26, 27, 90, 91
- sulfinpyrazone 65
- sulphonamides 75, 94–5
- sulphonylureas 72, 73
- sulpiride 54, 55
- sumatriptan 45
- supraventricular arrhythmias 34
- suramin 86
- surface anaesthesia 10
- suxamethonium 12, 13
- sympathetic nervous system 14–15
- sympathetic nervous system drugs 18–19
- sympathomimetics 18, 19
- synaptobrevin 13

- tachyphylaxis 5
- tacrolimus 90, 91
- Taenia* 85
- tamoxifen 68, 69, 89
- tamsulosin 18, 19
- tapeworms 85
- taxanes 88, 89
- teicoplanin 76
- temazepam 48
- tenecteplase 99
- tenofovir 82
- teratogenesis 95
- terbinafine 80
- terbutaline 18, 22
- testosterone 2, 68, 69
- tetracaine 10
- tetracycline 78
- theophylline 22, 23
- therapeutic index 79, 94, 95
- thiamine 63
- thiazide diuretics 28, 29, 31, 94–5
 - adverse effects 29
- thionamides 71
- thiopental 46, 47, 50
- threadworms 85
- trichomoniasis 87
- thrombolytic drugs 39
- thrombus 38–9
- thymidine kinase 2
- thyroid drugs 70–1
- thyroid replacement therapy 71
- thyrotoxic crisis 71
- thyrotoxicosis 71
- thyrotrophin (TSH) 70, 71
- thyrotrophin-releasing hormone (TRH) 71
- thyroxine 70, 71
- tiabendazole 84, 85
- tiagabine 50, 51
- ticarcillin 76, 77
- ticagrelor 39
- tigecycline 78, 79
- timolol 18, 20, 21
- tinidazole 74, 75
- tioguanine 88
- tirofiban 32, 38, 39
- tissue plasminogen activator (tPA) 38
- tobacco smoking 33, 63
- tobramicin 78
- tolbutamide 72
- tolcapone 52
- tolerance 5
 - to drugs of misuse 62
 - to nitrates 33
 - to opioids 58
- tonic-clonic seizures 50
- topical administration of drugs 7
- topiramate 50, 51
- toxicity of drugs 9
- toxocariasis 85
- Toxoplasma gondii* 75
- toxoplasmosis 75
- trabecular meshwork 21
- transducer molecules 5

- transmitter substances 2, 3
- transport systems 2, 3
- trastuzumab 88, 89
- travoprost 20
- trazodone 56, 57
- trematodes 84, 85
- triamcinolone 66, 67
- triamterene 28, 29
- triazoles 81
- Trichomonas vaginalis* 75
- trichomoniasis 86, 87
- Trichuris trichiura* 85
- tricyclic antidepressants (TCAs) 2, 56, 93
- trifluoperazine 55
- triiodothyronine 70, 71
- trimetaphan 16
- trimethoprim 74, 75
- tropicamide 16, 20, 21
- Trypanosoma gambiense* 87
- tryptosomiasis 87
- tuberculosis 79
- tubocurarine 12
- tyramine 18

- ulcerative colitis 27
- unstable angina 32
- unwanted effects from drugs *see* adverse effects/ reactions of drugs
- uric acid 29
- uricosuric drugs 65
- urinary incontinence 17
- ursodeoxycholic acid 27

- valaciclovir 82, 83
- valproate 45, 50, 51, 56
- van der Waals forces 4
- vancomycin 76, 77
- varicella zoster virus 83
- vasoconstriction 10, 19, 21, 30, 31
 - autonomic drugs 14, 15
 - local anaesthesia 11
- vasodilators 30, 31
- vasopressin (ADH) 29
- vecuronium 12, 13
- venlafaxine 48, 56, 57
- ventricular arrhythmias 34
- verapamil 32, 33, 34, 35
- verteporfin 20, 21
- vertigo 60–1
- very-low-density lipoproteins (VLDLs) 40
- vestibular disease 60, 61
- vigabatrin 45, 50, 51
- vinblastine 88, 89
- vinca alkaloids 88, 89
- vincristine 88, 89
- viruses 82–3
- vitamin B₁₂ 42, 43
- volume of distribution 6, 7
- voltage-gated ion channels 3, 10, 85
- vomiting centre 60, 61
- voriconazole 80, 81

- warfarin 8, 38, 39
- whipworms 85
- worms 84–5
- Wuchereria bancrofti* 85

- xanthines 22, 23, 65
 - adverse effects 94

- yeasts 81

- zalcitabine 83
- zaleplon 48, 49
- zanamivir 82, 83
- zero order elimination kinetics 6
- zidovudine 81, 83
- ziprasidone 54
- zolpidem 48, 49
- zopiclone 48, 49
- zotatarolimus 33

