

SUBJECT INDEX TO VOLUME 4

<i>N</i> -Acetyl-D-penicillamine	16
as chelating agent	16
Acetylcholine receptor	578
immunotoxins for	578
Acute myelogenous leukemia (AML)	255
genetic abnormalities in	255
targeting FLT3 receptor tyrosine kinase in	255
<i>S</i> -Acyl-2-thioethyl (SATE) pronucleotides	395
antiviral activity of	395
esters of	404
mononucleoside mixed	401
toxicity of	400
Adefovir dipivoxil (hepsera TM)	207
as new drug	207
Alfuzosin hydrochloride	1107
synthesis of	1107
Alzheimer's disease (AD)	157
caspase enzyme in	157
Amine-carboxyboranes	1001
activities of	1013
derivatives of	1001
medicinal chemistry of	1001
recent advances in	1001
α -Aminoboronic acids	1001
derivatives of	1001
medicinal chemistry of	1001
recent advances in	1001
Aminopenicillins	106
as β -lactam	106
Aminopyrazine derivatives	421
as antioxidants	421
chemical reactivity assays of	425
LDL protection inhibition by	428
lipid peroxidation inhibition by	425
theoretical evaluation of	424
toxicity of	429
Amrubicin hydrochloride (calsed)	207
as new drug	207
Amyotrophic lateral sclerosis	139
dihydro-4-oxo-4H-imidazo[1,2-a]indeno[1,2-e] pyrazines series in	139
Angiogenesis	693
heparanase in	693
Anthraquinone derivative	203
as anti- <i>helicobacter pylori</i>	203
Anti- <i>Helicobacter pylori</i>	201
anthraquinone derivatives as	203
arylacetamides as	204
benzimidazoles as	204
cephem derivative as	203
clinically useful drugs in	201
guanidino agents as	201
phthalide derivatives as	203
pyloricidin derivatives as	203
pyrazoles as	204
γ -pyrone derivatives as	203
quinolone compound as	203
Anti-lymphocytes	572
immunotoxins of	572
Anti-protozoa agent	31
semicarbazones as	31
Antibacterial	441
sugar containing agents	441
Antibacterial activity	72
of β -lactam derivatives	72
of lysophospholipid analogues (LPAs)	142,143
Anticancer agents	1077
ampethinile as	1088
aromatic carbamets as	1087
aryl-naphthyridinones as	1091
benzothiophene compounds as	1092
benzoylureas as	1091
chalcones as	1087
chelerythrine as	1090
chelidonine as	1090
chloroethylurea (CEU) as	1092
colchicine/analogue as	1083
comretastatins as	1085
cryptophysin analogues as	1095
curacin A as	1088
development of	1077
diethylstilbsterol as	1089
5,6-dihydroindolo[2,1-A]isoquinoline derivatives as	1091
dolastatin/derivatives as	1095
flavonols as	1086
FR 182877 as	1098
hemistarlines as	1098
indanosine as	1092
IKP-as	1095
KAR derivatives as	1095
LY290181 as	1092
MAPs as	1098
motor proteins as target for	1098
nocodazole as	1092
paclitaxel site binding drug as target of	1081
phenyl-4-quinolones (PQ) as	1090
phomopsin A as	1097
pironetin/derivatives as	1096
podophyllotoxin/analogue as	1084
quinolones/derivatives as	1090
rotenone as	1090
RPR112378 as	1093
RPR115781 as	1093
sanguinarine as	1090
steganacin as	1088
spongistatin as	1096
sulfonamides as	1089
target for	1077
1,2,3,4-tetrahydro-2-phenyl-quinones as	1090

- tricyclic pyron analog (TP) as 1093
tryprostins as 1099
vinca alkaloid site binding drugs as target for 1094
vincdesine as 1094
- Anticancer titanium compounds** 49
antitumor activity of 49
biological transport of 50
bis(4-acyl-5-pyrazolon-5-ato)titanium conformers as 57
budotitane as 49
formulation of 50
interaction with 51
structural parameters of 57
titanocene dichloride as 50
- Anticonvulsant** 31
semicarbazones as 31
- Anticonvulsant activity** 126,137
of dihydro-4-oxo-4H-imidazo[1,2-a]indeno[1,2-e] pyrazine series in 126,137
- Antimicrobial activity** 32
of thiosemicarbazones 32
- Antimicrobial agents** 73
β-lactam derivatives as 73
- Antioxidants** 421
aminopyrazine derivatives as 421
- Antiprotozoal activity** 141
of lysophospholipid analogues (LPAs) 141
- Antitubercular compounds** 74
β-lactam derivatives as 74
- Antitumor activity** 33,49,630
of anticancer titanium compounds 49
of dual COX-2/carbonic anhydrase inhibitors 630
of thiosemicarbazones 33
- Antiviral activities** 395,446
of sugar containing agents 446
of S-acyl-2-thioethyl (SATE) pronucleotides 395
- Antiviral protein** 526
pokeweed as 526
- Apoptosis** 882
genistein in 882
- Aprepitant** 1108
synthesis of 1108
- Arginine** 823
catabolism of 824
cellular effects of 823
effects of 825
effect on cardiovascular system 825
effect on carcinogenesis/tumor growth 829
effects on endocrine system 830
effects on immune system 827
effect on nitrogen balance 830
metabolic pathways of 824
NO-independent effects of 826
other NO-dependent effects of 825
physiological effects of 823
role in wound healing 828
- Aripiprazole (abilify™)** 207
as new drug 207
- Artificial neural network methods** 167
water solubility QSPR Models generated by 167
- Arylacetamides** 204
as anti-*helicobacter pylori* 204
- Aryloxy phosphoramidate triesters** 371
applications of 374
application to acyclic nucleoside phosphonates 375
as protides 371
mechanism of action of 378
of AZT 372
SARs of 376
- Arylureas** 326
as 5-HT_{2B} antagonist 326
- Atazanavir sulfate** 1109
synthesis of 1109
- Atomoxetine hydrochloride** 1110
synthesis of 1110
- Autoimmunity therapy** 742
mycophenolic acid in 742
- Axonal retrograde transport** 519
of ribosome inactivating proteins (RIP) 519
- Azelnidipine** 1111
synthesis of 1111
- AZT** 372
aryloxy phosphoramidate triesters of 372
- Bacteria** 461
ribosome-inactivating proteins (RIP) in 461
- Benzimidazoles** 204
as anti-*helicobacter pylori* 204
- Bioactive carbohydrates** 437
analogues of 437
as chemotherapeutics 437
in influenza 440
in malaria 439
in tuberculosis 438
- Biological activity** 881
of soy flavonoids 881
- Biological adhesives** 185
poly-α-glutamic acid as 185
- Bis(4-acyl-5-pyrazolon-5-ato)titanium conformers** 57
as anticancer titanium compounds 57
- Bispecific antibodies** 573
immunotoxins with 573
- Bladder cancer** 61,66
copper-67 in treatment of 66
diagnosis of 61
rhenium-188 in treatment of 66
therapy of 61
- Bortezomib** 1111
synthesis of 1111

Butyrate	840	properties of.....	493
cellular/physiological effects of.....	840	ribosomes resistant to	498
Cancer	843,882	Chelating agents	15
short chain fatty acids (SCFC) in.....	843	clinically important	14
genistein in	882	chemical structures of.....	11
Cancer therapy.....	273	desferrioxamine (DFOA) as.....	12,16
receptor protein tyrosine kinases (RPTKs) in	273	diethylenetriaminepentaacetic acid (DTPA) as.....	12,16
Carbapenems.....	81	D,L-2,3-dimercapto-1-propanesulfonic acid (DMPS) as	11,16
biological activity of.....	81	2,3-dimercaptopropanol (BAL) as.....	12
synthesis of.....	81	ethylenediaminetetraacetic acid (EDTA) as.....	11,16
Carbonic anhydrases	628	<i>in vivo</i> efficacy of.....	15
inhibition by sulfonamides	628,629	<i>N</i> -acetyl-D-penicillamine (NAPA) as.....	16
Cardiac disease	155	toxicity of.....	15
caspase enzyme in	155	Chemical chelation.....	11
Cardiovascular system	825	effects on metal toxicity	12
effects of arginine on.....	825	in biological systems	14
Carrier molecules	545	in treatment of metal intoxications	11
antibodies as	546	Chemogenomics	235
cytokines/growth factors as	547	computational tools for	240
hormones as	547	data management in	243
RIP as.....	547	example of.....	246
Caspase enzyme.....	153	gene family-based approach to	235
apoptotic inhibition of	163	high-throughput screening in	241
in Alzheimer's disease	157	hit confirmation in	242
in cardiac disease.....	155	in structure-based drug design	235
in drug design	158	inhibitor-based ATP site homology in	244
in Huntington's disease	157	of kinases	236,239
in liver failure.....	157	scaffold morphing in	246
in neurodegeneration	157	selectivity profiling in	243
in Parkinson's disease	157	structural basis for	236
in rheumatoid arthritis	155	target hopping in	246
in sepsis	156	Chlorophenyl piperazine 6 (m-CPP).....	327
in spinal cord injury	156	as 5-HT _{2B} antagonist	327
in stroke	155	Chronic myelogenous leukemia	285
in traumatic brain injury	156	Bcr-Abl in intracellular signaling of	286
indications of	154	imatinib (STI571) resistance in	285,291,296
inhibitors of	153,161	Philadelphia chromosome in	285
CCK receptor ligands	670,677	Colon anastomosis repair	773
of dipeptoids	670,677	MMP inhibition in	775
Cellular signaling networks	319	Colorectal carcinoma	772
in phosphoproteomics	319	epidemiology of	772
Cellular/physiological effects	833,881	Combinatorial chemistry	1067
of glutamine	833	Computational techniques	1029
of soy flavonoids	881	application of	1036
Cephalosporins.....	93	clustering/decision tree techniques as	1033
as β -lactams	93	for compound classification.....	1029
Cephem derivative	203	for diversity analysis.....	1029
as anti- <i>helicobacter pylori</i>	203	in compound classification.....	1036
Cepheems	105	in diversity analysis.....	1036
as β -lactams	105	in virtual screening	1037
Cereal ribosome-inactivating proteins	493	metrics in	1031
activities of	499	neural networks in	1034
as defence strategy in transgenic plants	500	partitioning/cell-based methods as	1034
genetics of	493	QSAR.....	1033
Copper-67	64	Copper	64
applications/biological effectiveness of	64	biological fate of	65

clinical applications of	65
in treatment of bladder cancer	66
radiochemistry of	64
structure of	65
COX-2 inhibition	603
enzyme kinetics of	605
structural approach for	603,606
COX-2 inhibitors.....	617,629
allergy to	624
clinically used-1	625
gastrointestinal safety of	619
of COXIB type	625
pharmacodynamics of	617
pharmacokinetics of	618
second generation of	617
therapeutic efficacy of	618
COX-2 selective inhibitors	597
first generation of	597
second generation of	599
Cyclooxygenase pathways	633
Cyclooxygenases	604
COX binding site of	604
structure of	604
Cytokines/growth factors.....	547
as carrier molecules	547
Cytomegalovirus	527
pokeweed antiviral protein (PAP) for	527
Decision support systems (DSS).....	1019
challenges in	1024
chemical structure processing in	1025
client/sever in	1021
clustering in	1026
currently used	1020
desktop and	1023
in drug discovery	1019
models in	1026
technology in	1024
web-based	1020
Desferrioxamine (DFOA)	12,16
as chelating agent	12,16
Dexmethylphenidate hydrochloride Focalin TM	210
as new drug	210
Diethylenetriaminepentaacetic acid (DTPA)	12,16
as chelating agent	12,16
Dihydro-4-oxo-4H-imidazo[1,2-a]indeno[1,2-e]pyrazine series	123
anticonvulsant activity of	126,137
chemical structure of	123,124
duration of action of	132
in amyotrophic lateral sclerosis	139
in ischemia-induced brain damage	139
in spinal cord function	139
in trauma-induced brain alteration	139
<i>in vivo</i> activities of	124
<i>in vitro</i> binding studies of	134
LY300164 as	123
LY293558 as	123
NBQX as	123
NPQX as	123
8- or/ and 9-substituted-4-oxo-imidazo[1,2-a]indeno [1,2-e]pyrazine derivatives as	131
RPR 117824 as	139
RPR119990 as	139
structure-activity relationships (SAR) of	134
YM872 as	123
D,L-2,3-Dimercapto-1-propanesulfonic acid (DMPS)	11,16
as chelating agent	11,16
2,3-Dimercaptopropanol (BAL)	12
as chelating agent	12
Dipeptoids	669
CCK receptor ligands of	670,677
coformationally constrained analogues of	673
pharmacokinetic profile of	672
structure activity relationships of	670
to design peptidomimetics	669
Diversity analysis	1029
application of	1036
descriptor's in	1029
dissimilarity and	1032
methods of	1032
metrics in	1031
Drug carrier	183
poly- α -glutamic acid as	183
Dual acting antihistaminergic agents	923
dual acting bradykinin B ₂ as	928
dual acting leukotriene modifying agents-H ₁ receptor antagonists	923
dual acting tachykinin/histamine H ₁ receptor antagonists as	927
dual histamine H ₁ -H ₂ receptor antagonists as	929,930
dual histamine H ₁ -H ₄ receptor antagonists as	930
dual histamine H ₁ receptor antagonist-thromboxane A ₂ receptor antagonist as	923
dual histamine H ₁ receptor-PAF antagonists as	930
Dual COX-2/carbonic anhydrase inhibitors	630
antitumor activities of	630
Dual COX/5-LOX inhibitors	633
fenamate derivatives as	635
indomethacin derivatives as	634
pharmacophores combination in	635
pyrrolizine derivative as	636
Dutasteride (avodart TM)	212
as new drug	212
Emcitrabine	1112
synthesis of	1112
Enteric-coated capsules	41
containing insulinomimetic vanadyl compounds	41
trials for	47
Epidermal growth factor receptor (EGF)	273
kinase inhibitors of	273

Epinastine	1113
synthesis of.....	1113
Ertapenem sodium (invanz TM).....	212
as new drug.....	212
Escitalopram oxalate (cipralex [®])	213
as new drug.....	213
Ethylenediaminetetraacetic acid (EDTA)	11,16
as chelating agent.....	11,16
Etoricoxib (arcoxia TM).....	213
as new drug.....	213
Eukaryotic protein kinases.....	301
architecture of.....	301
superfamily of	301
Everolimus.....	1114
synthesis of.....	1114
Extracellular trypanosomatids.....	146
effects on lysophospholipid analogues (LPAs).....	146
Ezetimibe (zetia).....	214
as new drug.....	214
ω3 Fatty acids	659
analogues of.....	659
effect on arachidonic cascade.....	659
metabolism of	660
sources of	659
therapeutic benefits of	659
Ferrocene-chloroquine derivatives.....	27
for malaria	27
FLT3 kinase	255
animal models of	258
biological activities of mutant	260
deficiency of.....	258
molecular mechanisms of.....	261
role in AML.....	259
FLT3 receptor tyrosine kinase	255
in acute myelogenous leukemia (AML)	255
FLT3 TKI inhibitors	261
chemical structures of.....	263
pre-clinical profiles of	261,264
quinazoline compounds as	267
Fondaparinux sodium (arixtra TM).....	215
as new drug.....	215
Fosamprenavir calcium	1115
synthesis of.....	1115
Fosfluconazole	1115
synthesis of.....	1115
Frovatriptan succinate (frova TM)	218
as new drug.....	218
Fuel	836
glutamine as.....	836
Fullerene-containing amino acids	805
biological properties of	805
chemical functionalization of	805
synthesis of	805
Fulvestrant (faslodex [®])	218
as new drug.....	218
Fungal viruses.....	530
pokeweed antiviral protein (PAP) for	530
Fungi	461
ribosome-inactivating proteins (RIP) in	461
GABA _A -benzodiazepine receptor (BZR).....	909
development of radioligands for	909
<i>in vivo</i> imaging of	909
molecular biology/pharmacology of	910
radiolabelled ligands for	910
Ganoderma lucidum (Reishi)	873
cellular/physiological effects of	873
future directions of	878
<i>in vitro</i> effects of polysaccharides from	874,875
<i>in vitro</i> effects of triterpenes from	876,877
other biologically active components of	877
Gastrointestinal absorption features	44
of vanadyl compounds	44
Gastrointestinal stromal tumors (GISTs)	279
kinase inhibitors in.....	279
Gefitinib (iressa).....	218
as new drug.....	218
Gemifloxacin mesylate.....	1116
synthesis of.....	1116
Gene expression.....	497
of maize ribosome-inactivating proteins.....	497
Genistein.....	882
effects on cardiovascular system	884
in apoptosis	882
in cardiovascular disease	884
in cancer	882
in regulation of cell cycle.....	882
in osteoporosis	885
Glutamine	833
as fuel	836
as growth promoting agent.....	836
as neurotransmitter	835
catabolism of	833
cellular/physiological effects of	833
regulates renal acid-base homeostasis	835
regulation of	833
role in critical illness	836
Glycoprotein IIb/IIIa receptor	703
inhibition of	704
inhibitors of	703
GP IIb/IIIa inhibitors	707
Growth factor receptors	573
immunotoxins for	573
Growth promoting agent	836
glutamine as.....	836

Guanidino agent	201	molecular modeling studies of.....	971
as anti- <i>helicobacter pylori</i>	201	neutral antagonists of.....	973
Heparanase.....	693	partial agonists of.....	973
in angiogenesis.....	693	pharmacological aspects of.....	965
in inflammation.....	693	potencies of.....	970
inhibitors of.....	699	QSAR of.....	971
in tumour metastasis.....	693	Histamine H ₄ receptor.....	993
transition state analogues of	699	ligands of	993
Heparin.....	693	therapeutic uses of	993
mimetic polymers	695	5-HT _{2B} Receptor.....	325
Herpes simplex virus.....	527	subtypes of	325
pokeweed antiviral protein (PAP) for	527	Histaprodifen	936,937
Herpes virus proteases (HCMV,HSV) inhibitor	193	as histamine H ₁ -receptor agonists	936,937
sulfonamide derivatives as	193	HIV entry inhibitor	198
Histamine derivatives	935	sulfonamide derivatives as	198
as histamine H ₁ -receptor agonists.....	935	HIV integrase inhibitor	195
Histamine H ₁ -receptor agonists.....	935	sulfonamide derivatives as	195
histamine derivatives as.....	935	HIV protease inhibitor	190
histaprodifen as.....	936,937	sulfonamide derivatives as	190
methylhistaprodifen as	936	Homology-based modelling	793
SAR of	935	alignment in	794
Histamine H ₂ -receptor agonists.....	941	database screening in	799
amines as.....	943	<i>de novo</i> ligand design in	800
guanidines as.....	643	in drug design	797
QSAR of.....	945	model building in	794
SAR of	941	targets for rational drug design	793
species-selectivity of.....	947	template identification in	794
Histamine H ₂ -receptor antagonists.....	949	Human immunodeficiency virus (HIV).....	528
compounds from.....	949	pokeweed antiviral protein (PAP) for	528
pharmacological properties of	951	Human thymidylate kinase (TMPK).....	351
5-HT _{2B} antagonists	325	engineering of.....	360
arylureas as	326	nucleotide analogs phosphorylation by	351
indolonaphthyridines as	327	nucleotide specificity of.....	352
meta-chlorophenyl piperazine 6 (m-CPP) as	327	substrate specificity of.....	352
pyrimidines as	327	Huntington's disease	157
rylpiperazine scaffold as	327	caspase enzyme in	157
tetrahydro-β-carbolines as	328	Ibandronate sodium	1116
Histamine H ₂ -receptor ligands	941	synthesis of.....	1116
QSAR of	945	Imatinib mesylate (ST1571)	288
SAR of	941	as kinase inhibitor	288
Histamine H ₃ receptor agonists	949	Imetit derivatives	960
imetit derivatives as.....	960	as histamine H ₃ receptor agonist.....	960
imifuramine as.....	961	Imidazolylpropylguanidines	945
immepip derivatives as.....	960	molecular modeling of	949
impentamine derivatives as	961	Imifuramine	961
ligands for	955	as histamine H ₃ receptor agonist.....	961
SAR of	955	Immepip derivatives	960
stereoisomer of	961	as histamine H ₃ receptor agonist.....	960
targets of	955	Immobilized metal affinity chromatography	313
Histamine H ₃ receptor antagonists	965	of phosphoproteomics	313
affinities of	970	Immune function	850
and hybrid compounds	974	effects of medium-chain triglycerides (MCT) on.....	850
and radioligands.....	974		
indication for	969		
in human tissues	968		
medicinal/chemical aspects of	965		

Immune system.....	827
effects of arginine on.....	827
Immunomodulating activity.....	518
of ribosome inactivating proteins (RIP).....	518
Immunomodulation.....	143
lysophospholipid analogues (LPAs) in.....	143
Immunotoxins.....	545
as conjugates.....	545
characteristics of.....	545
cocktails of anti-lymphocytes	572
cytotoxicity of.....	554
in neuroscience research.....	588
non-covalent.....	552
potency of.....	554,557
preparation of.....	545,548,557
pre-clinical studies of.....	563
recombinant/fusion.....	552
systemic injections of.....	586
targeting acetylcholine receptor	578
targeting haematological cells.....	563
targeting growth factor receptors.....	573
targeting solid tumour antigens.....	576
to HIV-infected cells.....	577
with bispecific antibodies	573
Immunotoxins.....	585
neuropeptide-toxin conjugates of.....	585
Impentamine derivatives.....	961
as histamine H ₃ receptor agonist.....	961
Indolonaphthyridines.....	327
as 5-HT _{2B} antagonist	327
Indolylpiperazines.....	998
H ₄ receptor affinity of	998
Inducible nitric oxide synthase	741
cell-specific inhibition of	744
inhibition by mycophenolic acid	741
Inflammation	693
heparanase in	693
short chain fatty acids (SCFC) in.....	841
Influenza	440
bioactive carbohydrates in	440
Influenza virus.....	527
pokeweed antiviral protein (PAP) for	527
Insulinomimetic vanadyl compounds.....	41
enteric-coated capsules containing	41
Ischemia-induced brain damage.....	139
dihydro-4-oxo-4H-imidazo[1,2-a]indeno[1,2-e] pyrazineseries in.....	139
Isoxazole-based dual p38/JNK3 inhibitors	250
structures of	250
Kinase inhibitor.....	273,288
imatinib mesylate (STI571) as	288
in gastrointestinal stromal tumors (GISTs).....	279
inhibit tumor angiogenesis.....	277
irreversible.....	273
of epidermal growth factor receptor (EGF).....	273
of FLT3	280
of kinase receptor	279
of vascular endothelial growth factor (VEGF)	277
reversible-.....	273
STI571 as	288
β-Lactams.....	93
biological activity of	93
cephalosporins as	93
cephems as.....	105
oxacephems as.....	105
prodrugs (antibacterial/anticancer) of	103
synthesis of.....	93
β-Lactam derivatives.....	69
antibacterial activity of	72
as antitubercular compounds.....	74
as antimicrobial agents	73
biological activity of	69
monocyclic	73
LDL protection inhibition	428
by aminopyrazine derivatives.....	428
Leishmaniasis	28,146
lysophospholipid analogues (LPAs) in	146
Library design.....	1067
and library optimisation algorithms.....	1069
and optimisation.....	1067
docking methods for	1074
frequency based methods of	1069
methods for	1067
multi-objective methods for	1072
pre-requisites of	1068
products verses reactant based design as	1067
reactant selection methods in	1071
stochastic methods of	1070
Library optimisation algorithms	1069
and library design.....	1069
Lipid peroxidation inhibition.....	425
by aminopyrazine derivatives.....	425
Lipoxygenase	633
Liver failure	157
caspase enzyme in	157
Lock-in cyclodal-pronucleotides	383
as chemical trojan horses	383
antiviral evaluation of	390
chemistry of	390
properties of	390
Lumiracoxib	1117
synthesis of	1117
Lysophospholipid analogues (LPAs)	141
anticancer activities of	142,143
antiprotozoal activities of	141
clinical studies of	142
chemical structures of	143
effects on extracellular trypanosomatids	146
effects on mammalian tumor cells	148
in immunomodulation	143

in leishmaniasis.....	146	isotypes of.....	1078
mechanisms of action of.....	145	role of.....	1078
Maize ribosome-inactivating proteins.....	495	Miglustat	1118
biological role of.....	497	synthesis of.....	1118
features of.....	495	 	
gene expression of.....	497	MMP inhibition.....	775
identifications of.....	495	in colon anastomosis repair.....	775
toxicity of.....	497	 	
Malaria	25,439	Molecular descriptors.....	1031
bioactive carbohydrates in.....	439	classes of.....	1031
ferrocene-chloroquine derivatives for	27	 	
N ₂ O ₂ core complexes for	28	Molecular similarity.....	1029
pentamidine for.....	28	application of	1036
porphyrins for.....	28	descriptors in.....	1029
Matrix metalloproteinases	769	methods of.....	1032
in colon anastomosis repair	769,773	metrics in	1031
in physiology	772	neural networks in	1034
inhibitors of	772	 	
Medium-chain triglycerides (MCT)	847	MT inhibitors	1079
and infectious complications	850	ampethinile as	1088
cellular/physiological effects of.....	847	aromatic carbamets as.....	1087
clinical studies of.....	850	aryl-naphthyridinones as.....	1091
effects on cellular membrane function.....	853	benzothiophene compounds as.....	1092
effect on gene-transcription.....	854	benzoylureas as.....	1091
effects on immune function.....	850	chalcones as	1087
effects on intracellular signal transduction.....	854	chelerythrine as	1090
effects on mononuclear cell/reticulo-endothelial		chelidонine as	1090
system function	852	chloroethylurea (CEU) as	1092
effect on monocyte/reticulo-endothelial system		colchicine/analogue.....	1083
function.....	852	colchicine binding site as	1083
effects on neutrophil function	850	combretastatins as	1085
effects on neutrophil adhesion.....	851	curacin A as	1088
effects on neutrophil migration	851	diethylstilbsterol as	1089
effects on lymphocyte function	852	5,6-dihydroindolo[2,1-A]isoquinoline	
effects on production of lipid mediators.....	854	derivatives as	1091
lipid structure of	847	flavonols as	1086
metabolic effects	847	indanosine as	1092
neutrophil microbial killing capacity of.....	852	LY290181 as	1092
oxygen radical production of	852	nocodazole as	1092
Memantine	1117	paclitaxel site binding drugs	
synthesis of.....	1117	(MT depolymerization inhibitors) as	1079
Metal complexes.....	25	phenyl-4-quinolones (PQ) as	1090
in trypanosomiasis	25	podophyllotoxin/analogue.....	1084
Metal complexes.....	31	quinolones/derivatives as	1090
of semicarbazones.....	31	rotenone as	1090
Metal toxicity	12	RPR112378 as	1093
effect of chemical chelation on.....	12	RPR115781 as	1093
Methylhistaprodifen	936	sanguinarine as	1090
as histamine H ₁ -receptor agonist	936	steganacin as	1088
Microtubules (MTs)	1077	sulfonamides as	1089
as target for developing anticancer drug	1079	1,2,3,4-tetrahydro-2-phenyl-quinones as	1090
binding sites of.....	1077	tricyclic pyron analog (TP) as	1093
classification of inhibitors of.....	1079	vindesine as	1094
components of.....	1077	 	
dynamics of	1078	Multiple linear regression analysis	167
function of.....	1078	water solubility QSPR Models generated by	167
in cell division	1078	 	
		Mycophenolate sodium	1118
		synthesis of.....	1118
		Mycophenolic acid	741
		immunosuppressive action of	741
		influence on iNOS-mediated NO production	741
		in autoimmunity therapy	74
		modulation of NO production	742

Neurodegeneration.....	157
caspase enzyme in	157
Neuronal tracer-toxins.....	592
Neuropeptide-toxin conjugates.....	585
of immunotoxins	585
Neuroscience research.....	588
immunotoxins in	588
Neurotransmitter.....	835
glutamine as.....	835
Neutrophil adhesion	851
effects of medium-chain triglycerides (MCT) on.....	851
Neutrophil function.....	850
effects of medium-chain triglycerides (MCT) on.....	850
New drugs.....	207,1105
adefovir dipivoxil (hepsera TM) as	207
alfuzosin hydrochloride (uroxatral TM) as	1105
amrubicin hydrochloride (calsed) as	207
aprepitant (emend TM) as	1105
aripiprazole (abilify TM) as	207
atomoxetine (strattera TM) as	1109
atzanavir sulfate (reyatez TM) as.....	1108
azelnidipine (calblock TM) as	1110
bortezomib (velcade TM) as	1110
dexmethylphenidate hydrochloride (focalin TM) as	210
dutasteride (avodart TM) as	212
emtricitabine (emtriva TM) as.....	1111
epinastine (alesion TM) as	1113
ertapenem sodium (invanz TM) as.....	212
escitalopram oxalate (cipralex [®]) as.....	213
etoricoxib (arcoxia TM) as	213
everolimus (certican TM) as	1113
ezetimibe (zetia) as	214
fondaparinux sodium (arixtra TM) as	215
fosfluconazole (proflif TM) as.....	1115
fosamprenavir calcium (lexiva TM) as.....	1114
frovatriptan succinate (frova TM) as	218
fulvestrant (faslodex [®]) as	218
gefitinib (iressa) as	218
gemifloxacin (zymar TM) as.....	1116
ibandronate (boniva TM) as.....	1117
lumiracoxib (prexige TM) as	1117
memantine HCl (namenda TM) as	1118
miglustat (zavesca TM) as.....	1119
mycophenolate sodium (myfortic TM) as.....	1119
palonosetron (aloxi TM) as	1119
pitavastatin calcium (livalo TM) as.....	1120
rupatadine fumarate (rupafin TM) as.....	1121
sertaconazole (dermofix TM ,ertaczo TM) as.....	1122
structure of.....	1107
synthetic approaches to.....	207,211
tadalafil (cialis TM) as	1123
vardenafil (levitra TM) as	1123
Nitric oxide	741
in immunity	741
Nitrogen-containing bisphosphonate	711
at cellular level	715
at molecular level	713
at tissue level	717
mechanism of action of	711

pharmacokinetics of	712
structure of	712
toxicology of	717
Non nucleoside HIV reverse transcriptase.....	194
sulfonamide derivatives as	194
Non-imidazole histamine H ₃ antagonists.....	979
based other pharmacophores	986
based on 2-aminoethylbenzofurans.....	987
biological properties of.....	979
medicinal chemistry properties of	979
SAR of	981
structures of	980
therapeutic utility of	988
Nuclear magnetic resonance (NMR) spectroscopy	304
of protein kinase inhibitors	304
Nucleoside analogs affinity	361
for nucleoside diphosphate kinase (NDK).....	361
Nucleoside diphosphate kinase (NDK)	361
active site of.....	363
affinity of nucleotide analogs for	366
antiviral drug analogs of	368
natural substrates of	364
nucleoside analogs phosphorylation by	361
sequences of	361
structure of	363
Nucleoside phosphoramidates.....	417
animal studies of	417
cellular uptake of	417
pharmacokinetics of	417
Omega-3 fatty acids (ω -3 PUFAs)	859
cellular mechanisms of	859
food naturally containing of	863
health benefits of	859
in cytosol-linked apoptosis	864
in diet	859
in mitochondria-linked apoptosis	867
mode of action of	862
supplementation of	860
therapeutic use of	864
Osteoporosis	885
genistein in	885
Oxacephems.....	105
as β -lactams	105
Palonosetron	1119
synthesis of	1119
Parkinson's disease (PD)	157
caspase enzyme in	157
Partial least squares method	167
water solubility QSPR Models generated by	167
Peptide ligand toxins	588
Pharmacokinetic parameters	43
of vanadyl compounds	43

Pheromone biosynthetic enzymes.....	760	Poly(Lysine).....	179
acetyl cholinesterase as	760	biomedical applications of	179,185
cysteine proteinase inhibitors as	763	chemical synthesis of	180
esterases as	760	microbial synthesis of	179,182
juvenile hormone epoxide hydrolases as	762	production of	180
juvenile hormone esterase as	761	structure of	179
oxidoreductases as	762	Poly- α -glutamic acid.....	179
proteases as	762	applications of	183
Pheromone-degrading enzymes	757	as biological adhesives	185
for pest control	757	as drug carrier	183
in biorational approaches	757	biomedical applications of	179
oxidases as	759	chemical synthesis of	180
pheromone esterases as	757	microbial synthesis of	179,181
Philadelphia chromosome.....	285	production of	180
in chronic myelogenous leukemia.....	285	structure of	179
Phosphoproteomics	313	Prebiotics	889
chemical modification enrichment strategies for ..	313,314	clinical consequences of	895
enrichment and MS-based strategies for	315	colonic pH of	894
immobilized metal affinity chromatography of	313	effect on butyrate	894
mass spectrometric characterization of	315	effects on composition of intestinal microflora	894
MS ionization/instrumentation in	315	other SCFA	894
phosphorylated species in	316,317	pharmacology of	894
phosphospecific antibodies for	314	Probiotics	889
profiling cellular signaling networks in	319	and signal transduction	891
stoichiometry of	318	antitoxin effects of	890
Phosphoramidase activity	414	cellular/physiological effects of	889
biological evidence for	416	cellular recognition of	891
chemical evidence for	414	cytokine responses of	891
Phosphospecific antibodies	314	definitions of	889
for phosphoproteomics	314	effects on enterocytes	892
Phthalide derivative.....	203	effects on electrolyte transport	893
as anti- <i>helicobacter pylori</i>	203	effects on gastrointestinal motility	893
Physicochemical descriptors.....	1041	effects on humoral immunity	892
in property-based drug design	1041	effects on immune system/cells	891
intestinal absorption to	1046	effects on innate immunity	892
lipophilicity to	1041	effects in intestinal lumen	893
oral bioavailability to	1049	effects on microorganisms	889
water solubility to	1043	effects on mucus production	892
Pitavastatin calcium	1120	intestinal permeability of	892
synthesis of	1120	interactions with mucus	893
Plant viruses	530	pharmacology of	889
pokeweed antiviral protein (PAP) for	530	protecting effect against atopic eczema (allergy)	892
Platinum complexes	24	Pronucleotide stratagem	409
in trypanosomiasis	24	chemical properties of	410
Pokeweed	526	designing of	409
as antiviral proteins	526	mechanistic studies of	412
Pokeweed antiviral protein (PAP)	527	synthesis of	410
for cytomegalovirus	527	Prostacylin (PGI ₂)/thromboxane A ₂ (TXA ₂)	639
for fungal viruses	530	biosynthesis of	639
for herpes simplex virus	527	catalytic domains of	640
for human immunodeficiency virus (HIV)	528	coordination of	646
for influenza virus	527	in endoplasmic reticulum membrane	639
for poliovirus	527	molecular modeling of	640
for plant viruses	530	N-terminal membrane anchor domains of	642
Poliovirus	527	presentation of	641
pokeweed antiviral protein (PAP) for	527	Protein kinase inhibitors	301

novel leads for	303	neurotoxicity of	519
nuclear magnetic resonance (NMR) spectroscopy of	304	non-RIP activities of	485
structure based drug design of	307	organisation of	488
virtual screening approaches towards	306	phylogenetic relationship of	461,472
Pyloricidin derivative	203	ribosome depurination by	523
as anti- <i>helicobacter pylori</i>	203	structure of	462,481
Pyrazoles	204	toxicity of	513,516,518
as anti- <i>helicobacter pylori</i>	204	Ricin	478
Pyrimidine nucleoside analogues activation	341	entry into mammalian cells	507
by thymidine kinase	341	inhibitor design of	481
γ-Pyrone derivative	203	membrane translocation of	509
as anti- <i>helicobacter pylori</i>	203	paradigm for cell entry	505
Pyrrolizine derivative	636	structures of	478
as dual COX/5-LOX inhibitor	636	Rupatadine fumarate	1121
synthesis of	1121		
Quinazoline compounds	267	Ruthenium complexes	24
as FLT3 TKI inhibitor	267	in trypanosomiasis	24
Radio-pharmacy	37	Rylpiperazine scaffold	327
thiosemicarbazones in	37	as 5-HT _{2B} antagonist	327
Receptor protein tyrosine kinases (RPTKs)	273	Semicarbazones	31
in cancer therapy	273	as anticonvulsants	31
Rhenium-188	62	as anti-protozoa agents	31
biodistribution of	63	bioactivity of	31,32
in treatment of bladder cancer	66	metal complexes of	31
radiochemistry of	62	Sepsis	156
Rheumatoid arthritis	155	caspase enzyme in	156
caspase enzyme in	155	Serine proteases	721
Ribosome inactivating proteins (RIP)	461,505	eukaryotic	721
abortifacient activity of	518	inhibitors of	721
actions on DNA	470	non-peptide inhibitors of	722
activity of	461	peptide inhibitors of	734
activity against viral pathogens	525	prokaryotic	721
antiviral activity of	523	Sertaconazole	1122
as immunotoxins	540	synthesis of	1122
axonal retrograde transport of	519	Short chain fatty acids (SCFC)	839
biosynthesis of	505	cellular/physiological effects of	839
classification of	487	effects on intestinal dysfunction	841
complexes of	483	in cancer	843
cytotoxicity of	513	in inflammation	841
description of	461	in thromboresistance	842
distribution of	461,462	in vitro studies of	843
entry into cells	536	Solid tumour antigens	576
entry into mammalian cells	505	immunotoxins for	576
enzymatic activities of	469	Soy flavonoids	881
genetics of	487	biological activity of	881
gene expression of	490	cellular/physiological effects of	881
gene structure of	488	Spinal cord injury	156
immunomodulating activity of	518	caspase enzyme in	156
in bacteria	461	STI571	289
in fungi	461	effects on autophosphorylation	289
in medicine	523,540	effects on cell proliferation	289
in plants	461	effects on kinase transphosphorylation	289
intracellular routing of	505	Stroke	155
mediated modulation of host factors	537	caspase enzyme in	155
membrane disordering activities of	470		
molecular evolution of	490		

Structure based drug design	307	Thromboxane synthase.....	650
of protein kinase inhibitors	307	inhibitors of.....	650
Structure-based drug design	235	modulators of.....	650
chemogenomics in.....	235	Thymidine analogs.....	353
Sugar containing agents	441	conformationally-locked	355
antibacterial.....	441	sugar-modified.....	353
antiviral activities of.....	446	Thymidine kinase	341
Sulfonamide derivatives.....	189	cytolic.....	341
antiviral.....	189	mitochondrial.....	342
as herpes virus proteases (HCMV,HSV) inhibitors	193	of herpes simplex-1	342
as HIV entry inhibitors.....	198	pyrimidine nucleoside analogues activation by.....	341
as HIV integrase inhibitors.....	195	structures of	343
as HIV protease inhibitors.....	190	substrate activity relationship of.....	343
as non nucleoside HIV reverse transcriptase		Titanocene dichloride.....	50
inhibitors	194	as anticancer titanium compound.....	50
interacting with viral zinc finger proteins.....	197	Toxicity.....	513,516,518
Sulfonamides.....	628,629	of ribosome inactivating proteins (RIP).....	513,516,518
carbonic anhydrases inhibition by.....	628,629	Trace elements supplementation.....	1
Synthesis	805	of chromium	5
of fullerene-containing amino acids	805	of cobalt	6
Synthetic accessibility	681	of copper	3
chemistry-based estimation of.....	685	of iron	2
complexity-based estimation of.....	684	of magnesium.....	5
computational estimation of.....	684	of manganese.....	6
manual estimation of	683	of selenium.....	5
predicting	681	of zinc.....	4
retrosynthesis-based estimation of	688	Transition state analogues.....	699
Synthetic approaches	1105	of heparanase	699
to new drugs	1105	Traumatic brain injury	156
Tachykinin (NK ₂) receptor antagonists.....	331	caspase enzyme in	156
dual antagonists NK ₁ /NK ₂ as	335	Trojan horses	383
dual antagonists NK ₂ /NK ₃ as	337	lock-in cyclosal-pronucleotides as	383
modelling of	338	Trypanosomatids	144
mutational studies of	338	experimental studies on	144
NK ₂ selective	331,332	Trypanosomiasis.....	23
triple antagonists NK ₁ /NK ₂ /NK ₃ as	338	metal complexes in	25
Tadalafil.....	1122	platinum complexes in	24
synthesis of	1122	ruthenium complexes in	24
Thiosemicarbazones.....	32,36	Tetrahydro-β-carbolines	328
antimicrobial activity of	32	as 5-HT _{2B} antagonist	328
antitumoral activity of	33	Tuberculosis	438
antiviral activity of	36	bioactive carbohydrates in	438
bioactivity of	31,32	Tumor angiogenesis	277
in radio-pharmacy.....	37	kinase inhibitors of	277
metal complexes of	32,37	Tumour metastasis	693
Thromboresistance	842	heparanase in	693
short chain fatty acids (SCFC) in	842	Type 1 dehydroquinase	747,755
Thromboxane modulators	649	inhibition of	748
combined.....	654	inhibitors of	747
pharmacological properties of	654	mechanism of	747
Thromboxane receptor antagonists.....	652	Type 2 diabetes therapy.....	897
non-prostanoid.....	653	as small molecule regulators of potential targets of	897
prostanoid.....	652	and gluconeogenesis	897
Thromboxane receptors	651	and glycogenolysis	901
modulators of	651	AMP allosteric site inhibitors in	902

blockade of liver glucocorticoid action as target for.....	897	
catalytic site inhibitors in	901	
fructose-1,6-bisphosphatase (F16BPase) inhibition as target for.....	900	
glucocorticoid receptor (GR) antagonism as target for.....	898	
glycogen phosphorylase (GP) inhibition as target for....	901	
glucose-6-phosphatase (G6Pase) inhibition intervention of hepatic glucose production	897	
glycogen synthase kinase-3 (GSK-3) inhibitor in.....	903	
glucagon receptor (GlucR) antagonism as target for....	904	
G6Pase catalytic enzyme inhibition as target for.....	905	
G6P translocase inhibition as target for	905	
11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD) inhibition as target for.....	899	
new allosteric site inhibitors in.....	902	
as target for.....	904	
Type II dehydroquinase	747	
inhibition of	748	
inhibitors of	747,755	
mechanism of	747	
Tyrosine kinases	256	
in human cancers.....	257	
strategies to inhibit.....	256	
Vanadyl compounds	41	
chemical structure of.....	42	
gastrointestinal absorption features of.....	44	
pharmacokinetic parameters of	43	
Vardenafil.....	1123	
synthesis of.....	1123	
Vascular endothelial growth factor (VEGF).....	277	
kinase inhibitors of.....	277	
Viral pathogens	525	
ribosome inactivating proteins (RIP) against	525	
Viral zinc finger proteins	197	
sulfonamide derivatives interacting with.....	197	
Virtual screening.....	779,1037,1053	
against HSP90.....	788	
building/fast enumeration of virtual libraries	1054	
computational techniques in.....	1037	
database screening applications in.....	1058	
enrichment factors in	783	
flexible receptor docking in.....	1059	
high performance computing in.....	1061	
informatics/computing infrastructure in	1061	
in structure-based drug discovery	779	
integration of.....	1053	
in drug discovery process.....	1053	
<i>in vivo</i> effects by.....	1054	
prediction of drug-likeness by.....	1055	
prediction of intestinal absorption/oral bioavailability	1055	
prediction of CNS activity.....	1056	
predictive drug likeness.....	1054	
recent/popular methods for docking in.....	1056	
structure-based-.....	1056	
scoring function in	1060	
targets selection/gene-families.....	1054	
using experimental data to enhance docking in.....	1059	
validation of	780	
Warhead.....	158	
irreversible binding of.....	158	
reversible binding of.....	158	
Water solubility QSPR Models.....	167	
external validation set of.....	171	
generated by artificial neural network methods.....	167	
generated by multiple linear regression analysis	167	
generated by partial least squares method.....	167	
molecular descriptors for.....	171	
physico-chemical properties of.....	168	
predictive ability of	167	
validation of.....	173	
Wound healing.....	828	
role of arginine in.....	828	

Copyright of Mini Reviews in Medicinal Chemistry is the property of Bentham Science Publishers Ltd. and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use.