

Subject Index of Volume 53

A₁ and A_{2A} binding activity
 synthesis and A₁ and A_{2A} adenosine binding activity of some pyrano[2,3-c]pyrazol-4-ones, 189

Acetoxymethylthienocoumarins
 synthesis and biological activity of linear and angular 4-methoxy-methylthienocoumarins and 4-acetoxymethylthienocoumarins, 313

Acyclic glycosidoindoles
 glycosidopyrroles. Part 3. Effect of the benzocondensation on acyclic derivatives: 1-(2-hydroxyethoxy)methylindoles as potential antiviral agents, 409

Acyclic glycosidopyrroles
 glycosidopyrroles. Part 1. Acyclic derivatives: 1-(2-hydroxyethoxy)-methylpyrroles as potential anti-viral agents, 33

Adducts
 molecular toxicology and the medicinal chemist, 287

Adenosine receptor ligands
 synthesis and A₁ and A_{2A} adenosine binding activity of some pyrano[2,3-c]pyrazol-4-ones, 189

Adrenergic receptors
 molecular mechanisms involved in the activation and regulation of the α_1 -adrenergic receptor subtype, 273

α_1 -Adrenoceptor antagonist
 pyrazole analogues of prazosin, 519

α_1 -Adrenoreceptors
 search for selective antagonists at α_1 -adrenoreceptors: neutral or negative antagonism?, 278

Agonist-antagonist discrimination
 receptor binding thermodynamics as a tool for linking drug efficacy and affinity, 249

Aldose reductase inhibitors
 synthesis and aldose reductase inhibitory activity of new N-(benzyloxy)glycine derivatives, 369

synthesis and aldose reductase inhibitory activity of benzoyl-amino acid derivatives, 439

Amidinohydrazines
 new derivatives of imidazole as potential anticancer agents, 342

1-Aminocyclopropane-1-carboxylic acid (ACPC)
 1-aminocyclopropane-1-carboxylic acid derivatives as ligands at the glycine-binding site of the N-methyl-D-aspartate receptor, 181

1-Aminoindan-1,5-dicarboxylic acid (AIDA)
 modulation of glutamate receptor pathways in the search for new neuroprotective agents, 255

4-Aminosubstituted 2,6,7-trimethyl-1,5-dioxo-1,2,5,6-tetrahydropyrido[3,4-d]pyridazines
 investigations on the synthesis and properties of 4-aminosubstituted 2,6,7-trimethyl-1,5-dioxo-1,2,5,6-tetrahydropyrido[3,4-d]-pyridazines, 475

Aminothiol
 2-mercapto-propylamine: radiopharmacology in mice, pharmacokinetic studies in mice and in rats, mutagenicity and differential distribution between tissues and EMT6 tumour in mice, 118

Ampicillin

synthesis, analysis and in vitro antibacterial activity of new metal complexes of sulbactam, 737

Amyrin
 synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Analgesia
 further studies on analgesic activity of cyclic imides, 55

Analgesic activity
 synthesis of certain unsubstituted, 9-exo-(dialkylaminomethyl)-, and 9-endo-(aralkyl)-tricyclo[5.2.1.0^{2,6}]decane-8-ketoxime esters and ethers with local anesthetic and analgesic activities, 197

synthesis and pharmacological evaluation of 1-methyl-5-[substituted-4(3H)-oxo-1,2,3-benzotriazin-3-yl]-1H-pyrazole-4-acetic acid derivatives, 350

synthesis and pharmacological properties of some quinoline derivatives, 399

synthesis and μ -opioid receptor affinity of a new series of nitro substituted 3,8-diazabicyclo[3.2.1]octane derivatives, 557

benzocondensed derivatives as rigid analogues of the μ -opioid agonist 3(8)-cinnamyl-8(3)-propionyl-3,8-diazabicyclo[3.2.1]octanes: synthesis, modeling, and affinity, 667

Analgesic agents
 synthesis of 1-methyl-4-(N-aryl)-piperidinamides with anti-inflammatory and analgesic activities, 233

Analgesic and antipyretic activity
 new cycloalkylpyrazoles as potential cyclooxygenase inhibitors, 698

Angelicin heteroanalogues
 synthesis of angelicin heteroanalogues: preliminary photobiological and pharmacological studies, 602

Angiotensin converting enzyme (ACE) inhibitors
 structural characterization and solution rotational isomerism of delapril hydrochloride, a dipeptide angiotensin-converting enzyme inhibitor, 214

Anthelmintic activity
 synthesis and pharmacological properties of some quinoline derivatives, 399

Antibacterial
 hydroxyamino sugar derivatives: sugar nitrones, 623

Antibacterial activity
 a new class of *cis*-monobactam derivatives bearing a sulfamoyloxy-methyl or an N-alkylsulfamoyloxy-methyl group at position 4: synthesis and antibacterial activity, 173

synthesis and microbiological activity of some novel 5- or 6-methyl-2-(2,4-disubstituted phenyl)benzoxazole derivatives, 337

synthesis of some new biologically active thiadiazolotriazinones, 395

studies on arylfuran derivatives. Part VII. Synthesis and characterization of some Mannich bases carrying halophenylfuryl moieties as promising antibacterial agents, 531

synthesis, analysis and in vitro antibacterial activity of new metal complexes of sulbactam, 737

Antibacterial agents
 synthesis and antimicrobial activity of N-[$(\alpha$ -methyl)benzylidene]- (3-substituted-1,2,4-triazol-5-yl-thio)acetohydrazides, 773

Antibacterial drugs
synthesis and antimicrobial activity of some 5-aryl-2-[*(N,N*-disubstituted thiocarbamoylthio)acylamino]-1,3,4-oxadiazoles, 541

Antibacterial properties
studies on some N-bridged heterocycles derived from bis-[4-amino-5-mercaptop-1,2,4-triazol-3-yl] alkanes, 574

Antibiotic activity
new esters of *R*-(+)-usnic acid, 718

Anticancer activity
quinoxaline chemistry. Part 9. Quinoxaline analogues of trimetrexate (TMQ) and 10-propargyl-5,8-dideazafolic acid (CB 3717) and its precursors. Synthesis and evaluation of in vitro anticancer activity, 139
synthesis and in vitro anticancer activity evaluation of biscarbamic esters of 2,3-bis(hydroxymethyl)-1-methyl-7- and 7,8-substituted benzo[g]indoles, 161
new derivatives of imidazole as potential anticancer agents, 342
synthesis of substituted 2-ethoxycarbonyl- and 2-carboxyquinoxalin-3-ones for evaluation of antimicrobial and anticancer activity, 455

Anticancer agents
quinoxaline chemistry. Part 10. Quinoxaline 10-oxa-analogues of trimetrexate (TMQ) and of 5,8-dideazafolic acid. Synthesis and evaluation of in vitro anticancer activity, 150
quinoxaline chemistry. Part 11. 3-Phenyl-2[phenoxy- and phenoxy-methyl]-6(7) or 6,8-substituted quinoxalines and *N*-[4-(6(7)-substituted or 6,8-disubstituted-3-phenylquinoxalin-2-yl)hydroxy or hydroxymethyl]benzoylglutamates. Synthesis and evaluation of in vitro anticancer activity and enzymatic inhibitory activity against dihydrofolate reductase and thymidylate synthase, 480
quinoxaline chemistry. Part 12: 3-Carboxy-2[phenoxy]-6(7) substituted quinoxalines and *N*-[4-(6(7) substituted-3-carboxyquinoxalin-2-yl)hydroxybenzoylglutamates. Synthesis and evaluation of in vitro anticancer activity, 594

Antidepressant activity
synthesis, lipophilicity and biological evaluation of indole-containing derivatives of 1,3,4-thiadiazole and 1,2,4-triazole, 320

Antifungal agents
quinoxaline chemistry. Part 11. 3-Phenyl-2[phenoxy- and phenoxy-methyl]-6(7) or 6,8-substituted quinoxalines and *N*-[4-(6(7)-substituted or 6,8-disubstituted-3-phenylquinoxalin-2-yl)hydroxy or hydroxymethyl]benzoylglutamates. Synthesis and evaluation of in vitro anticancer activity and enzymatic inhibitory activity against dihydrofolate reductase and thymidylate synthase, 480

Antifungal activity
synthesis and microbiological activity of some novel 5- or 6-methyl-2-(2,4-disubstituted phenyl)benzoxazole derivatives, 337
new cyclohexylidenehydrazide and 4-aza-1-thiaspiro[4.5]decan-3-one derivatives of 3-phenyl-4(3*H*)-quinazolinones, 346
facile synthesis of some new pyrazolo[3,4-b]pyrazines and their antifungal activity, 383

Antifungal agents
synthesis and antimicrobial activity of *N*-[(α -methyl)benzylidene]- (3-substituted-1,2,4-triazol-5-yl-thio)acetohydrazides, 773

Anti-HIV activity
evaluation of anti-HIV activity of 5-(2-phenyl-3'-indolal)-2-thiohydantoin, 525

Antihypertensive activity
synthesis and antihypertensive activity of 2,4-dioxoimidazolidin-1-yl and perhydro-2,4-dioxopyrimidin-1-yl ergoline derivatives, 293

Antihypertensive agents
structural characterization and solution rotational isomerism of delapril hydrochloride, a dipeptide angiotensin-converting enzyme inhibitor, 214

Anti-inflammatory activity
anti-nociceptive and anti-inflammatory activity of some (2-benzoxazolone-3-yl and 2-benzothiazolone-3-yl)acetic acid derivatives, 80
synthesis and pharmacological evaluation of 1-methyl-5-[substituted-4(3*H*)-oxo-1,2,3-benzotriazin-3-yl]-1*H*-pyrazole-4-acetic acid derivatives, 350
synthesis and pharmacological properties of some quinoline derivatives, 399
acute and chronic antiinflammatory effects of plant flavonoids, 421

Anti-inflammatory agents
synthesis of 1-methyl-4-(*N*-aryl)-piperidinamides with anti-inflammatory and analgesic activities, 233
preparation of new 5-arylamino substituted 3-nicotinoyl/isonicotinoyl-1,3,4-thiadiazol-2(3*H*)-ones with anti-inflammatory activity, 586
synthesis and anti-inflammatory activity of esters derived from 5-aryl-1,2-dihydro-2-(2-hydroxyethyl)-3*H*-1,2,4-triazole-3-thiones, 590

Antileukemic studies
synthesis and preliminary antileukemic studies of cyclic mitoguazone analogues, 244

Antimicrobial activity
stereoisomeric effect on antimicrobial activity of a series of quaternary ammonium salts, 41
synthesis, antimicrobial activity and bleaching effect of some reaction products of 4-oxo-4*H*-benzopyran-3-carboxaldehydes with amino-benzothiazoles and hydrazides, 224
synthesis of some new benzimidazolecarboxamides and evaluation of their antimicrobial activity, 415
synthesis and antimicrobial activity of coumarin 7-substituted cephalosporins and sulfones, 425
synthesis of substituted 2-ethoxycarbonyl- and 2-carboxyquinoxalin-3-ones for evaluation of antimicrobial and anticancer activity, 455
synthesis, structure elucidation and antimicrobial activity of some 3-hydroxy-2-naphthoic acid hydrazide derivatives, 462

Antimycobacterial activity
2-substituted-3-oxoisothiazolo[5,4-b]pyridines as potential central nervous system and antimycobacterial agents, 504

Anti-nociceptive activity
anti-nociceptive and anti-inflammatory activity of some (2-benzoxazolone-3-yl and 2-benzothiazolone-3-yl)acetic acid derivatives, 80
further structure-activity relationships in the series of tropanyl esters endowed with potent antinociceptive activity, 764

Antioxidant activity
antioxidant activity of some ascorbic and cinnamic acids derivatives, 85

Anti-Parkinson activity
synthesis and in vitro and in vivo evaluation of dopaminergic ergoline derivatives, 65

Antiproliferative activity
synthesis and biological activity of linear and angular 4-methoxy-methylthienocoumarins and 4-acetoxymethylthienocoumarins, 313 pyran derivatives. XX. 2-Aminochromone benzo-fused derivatives with antiproliferative properties, 494

Antisense
antisense activity of an anti-HIV oligonucleotide conjugated to linear and branched high molecular weight polyethylene glycols, 634

Antithrombotic activity
synthesis and pharmacological evaluation of a new class of bicyclic phospholipids, designed as platelet activating factor antagonists, 327

Anti-trypanosomal activity
synthesis and anti-trypanosomal activity of novel 5-nitro-2-furaldehyde and 5-nitrothiophene-2-carboxaldehyde semicarbazone derivatives, 89

Antituberculosis activity
synthesis and antituberculosis activity of some new 2-quinoxaline-carbonitriles, 570

Anti-ulcer
synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Anti-viral agents
 glycosidopyrroles. Part 1. Acyclic derivatives: 1-(2-hydroxyethoxy)-methylpyrroles as potential anti-viral agents, 33
 glycosidopyrroles. Part 3. Effect of the benzocondensation on acyclic derivatives: 1-(2-hydroxyethoxy)methylindoles as potential antiviral agents, 409

Anxiolytics
 synthesis of *N*-(4-aryl-1-piperazinylbutyl)-substituted 7,8-benzo-1,3-diazaspiro[4,5]decane-2,4-dione derivatives with potential anxiolytic activity, 169

Aqueous diluted solutions
 influence of temperature on the degradation of climbazol in aqueous diluted solutions, 405

5-Aryl-1,2,4-triazoline-3-thiones
 synthesis and anti-inflammatory activity of esters derived from 5-aryl-1,2-dihydro-2-(2-hydroxyethyl)-3*H*-1,2,4-triazole-3-thiones, 590

5-Aryl-2-[*N,N*-disubstituted thiocarbamoylthio)acylamino]-1,3,4-oxadiazole
 synthesis and antimicrobial activity of some 5-aryl-2-[*N,N*-disubstituted thiocarbamoylthio)acylamino]-1,3,4-oxadiazoles, 541

Arylfuran derivatives
 studies on arylfuran derivatives. Part VII. Synthesis and characterization of some Mannich bases carrying halophenylfuryl moieties as promising antibacterial agents, 531

Ascorbic acid derivatives
 antioxidant activity of some ascorbic and cinnamic acids derivatives, 85

Aspirin
 prodrugs. Part 3. 2-Formylphenyl esters of indomethacin, ketoprofen and ibuprofen and 6-substituted 2-formyl and 2-acylphenyl esters of aspirin, 95

Bacteria G⁺ and G⁻
 synthesis, antimicrobial activity and bleaching effect of some reaction products of 4-oxo-4*H*-benzopyran-3-carboxaldehydes with amino-benzothiazoles and hydrazides, 224

Benzamide
 chemical oxidation of an anticonvulsant *N*-(5'-methylisoxazol-3-yl)-2,6-dimethylbenzamide (D2916), 513

Benzimidazolecarboxamides
 synthesis of some new benzimidazolecarboxamides and evaluation of their antimicrobial activity, 415

7,8-Benzo-1,3-diazaspiro[4,5]decane-2,4-dione derivatives
 synthesis of *N*-(4-aryl-1-piperazinylbutyl)-substituted 7,8-benzo-1,3-diazaspiro[4,5]decane-2,4-dione derivatives with potential anxiolytic activity, 169

Benzodiazepine receptor
 structure-activity relationship investigations of the modulating effect of core substituents on the affinity of pyrazoloquinolinone congeners for the benzodiazepine receptor, 579

Benzodiazepine receptor activity
 tricyclic heteroaromatic systems. Synthesis and benzodiazepine receptor affinity of 2-substituted-1-benzopyrano[3,4-d]oxazol-4-ones, -thiazol-4-ones, and -imidazol-4-ones, 375

Benzodiazepine receptor binding
 1,2,3-triazolo[1,5-a][1,4]- and 1,2,3-triazolo[1,5-a][1,5]benzodiazepine derivatives: synthesis and benzodiazepine receptor binding, 305

1,5-Benzodiazepines
 diastereomeric separation of 1,5-benzodiazepines due to the presence of a chiral centre on the N-5 alkylidic chain, 49

Benzo-fused 2-aminochromones
 pyran derivatives. XX. 2-Aminochromone benzo-fused derivatives with antiproliferative properties, 494

1-Benzopyrano[3,4-d]imidazol-4-ones
 tricyclic heteroaromatic systems. Synthesis and benzodiazepine receptor affinity of 2-substituted-1-benzopyrano[3,4-d]oxazol-4-ones, -thiazol-4-ones, and -imidazol-4-ones, 375

1-Benzopyrano[3,4-d]oxazol-4-ones
 tricyclic heteroaromatic systems. Synthesis and benzodiazepine receptor affinity of 2-substituted-1-benzopyrano[3,4-d]oxazol-4-ones, -thiazol-4-ones, and -imidazol-4-ones, 375

1-Benzopyrano[3,4-d]thiazol-4-ones
 tricyclic heteroaromatic systems. Synthesis and benzodiazepine receptor affinity of 2-substituted-1-benzopyrano[3,4-d]oxazol-4-ones, -thiazol-4-ones, and -imidazol-4-ones, 375

1,4-Benzothiazine-1,1-dioxides
 synthesis of 2-substituted-6,8-dichloro-3,4-dihydro-3-oxo-2*H*-1,4-benzothiazine-1,1-dioxides and 1-oxides as glycine-NMDA receptor antagonists, 752

1,4-Benzothiazine-1-oxides
 synthesis of 2-substituted-6,8-dichloro-3,4-dihydro-3-oxo-2*H*-1,4-benzothiazine-1,1-dioxides and 1-oxides as glycine-NMDA receptor antagonists, 752

Benzothiazolinone derivatives
 anti-nociceptive and anti-inflammatory activity of some (2-benzoxazolone-3-yl and 2-benzothiazolone-3-yl) acetic acid derivatives, 80

5-(1,2,3-Benzotriazinyl)-1*H*-pyrazole-4-acetic acid derivatives
 synthesis and pharmacological evaluation of 1-methyl-5-[substituted 4(3*H*)-oxo-1,2,3-benzotriazin-3-yl]-1*H*-pyrazole-4-acetic acid derivatives, 350

Benzotriazole derivatives
 synthesis and preliminary pharmacological investigation of some 2-[4-(dialkylaminoalkoxy)phenyl]benzotriazoles and their N-oxides, 102

Benzotriazole N-oxides
 synthesis and preliminary pharmacological investigation of some 2-[4-(dialkylaminoalkoxy)phenyl]benzotriazoles and their N-oxides, 102

Benzoxazoles
 synthesis and microbiological activity of some novel 5- or 6-methyl-2-(2,4-disubstituted phenyl)benzoxazole derivatives, 337

Benzoxazolinone derivatives
 anti-nociceptive and anti-inflammatory activity of some (2-benzoxazolone-3-yl and 2-benzothiazolone-3-yl) acetic acid derivatives, 80

Benzoyl-L-amino acid derivatives
 synthesis and aldose reductase inhibitory activity of benzoyl-amino acid derivatives, 439

Benzo[g]indole carbamates
 synthesis and in vitro anticancer activity evaluation of carbamic esters of 2,3-bis(hydroxymethyl)-1-methyl-7- and 7,8-substituted-benzo[g]indoles, 161

N-(Benzoyloxy)glycine derivatives
 synthesis and aldose reductase inhibitory activity of new *N*-(benzoyloxy)glycine derivatives, 369

Bezafibrate metabolism
 determination of bezafibrate concentration by high performance liquid-chromatography in serum of rats treated with lead nitrate, 690

Binding thermodynamics
 receptor binding thermodynamics as a tool for linking drug efficacy and affinity, 249

Biochemical parameters
 variations in rat biochemical parameters after buckshot implant, 209

Bis-[4-amino-5-mercapto-1,2,4-triazol-3-yl] alkanes
 studies on some N-bridged heterocycles derived from bis-[4-amino-5-mercapto-1,2,4-triazol-3-yl] alkanes, 574

Buckshot
 variations in rat biochemical parameters after buckshot implant, 209

Carbohydrates
 hydroxyamino sugar derivatives: sugar nitrones, 623

Carbon suboxide
 synthesis and antimicrobial activity of coumarin 7-substituted cephalosporins and sulfones, 425

synthesis of 2H,9H-naphtho[2,3-b:7,6-b']dipyran-2,9-diones as potential DNA-reactive agents, 675

one-step synthesis of new 3-oxa- or 3-azabicyclo[3.2.0]hept-5-en-2,7-dione and 5,9-dioxa- or 5,9-diazabicyclo[5.3.0]dec-1-en-3-methyliden-6,8-dione derivatives, 680

synthesis via carbon suboxide and pharmacological activity of coumarin derivatives, 693

2-(2'-Carboxy-3'-phenylcyclopropyl)glycine (PCCG) stereoisomers
 modulation of glutamate receptor pathways in the search for new neuroprotective agents, 255

Carrageenan-induced mouse paw edema
 acute and chronic antiinflammatory effects of plant flavonoids, 421

Carumonam
 a new class of *cis*-monobactam derivatives bearing a sulfamoyloxy-methyl or an *N*-alkylsulfamoyloxymethyl group at position 4: synthesis and antibacterial activity, 173

Cellular signalling
 csk-mediated phosphorylation of substrates is regulated by substrate tyrosine phosphorylation, 266

Cephalosporins
 FSQ spectrophotometric and HPLC analysis of some cephalosporins in the presence of their alkali-induced degradation products, 132

synthesis and antimicrobial activity of coumarin 7-substituted cephalosporins and sulfones, 425

Chlorpheniramine maleate
 simultaneous high performance liquid chromatographic and derivative ratio spectra spectrophotometry determination of chlorpheniramine maleate and phenylephrine hydrochloride, 617

Cholecystokinin (CCK)
 diastereomeric separation of 1,5-benzodiazepines due to the presence of a chiral centre on the N-5 alkyl chain, 49

Chromosome aberrations
 synthesis and biological properties of a new series of *N*-pyrido substituted tetrahydrocarbazoles, 431

Cinnamic acid derivatives
 antioxidant activity of some ascorbic and cinnamic acids derivatives, 85

Climbazol
 influence of temperature on the degradation of climbazol in aqueous diluted solutions, 405

2:1 Complex
 further insight into the Zn^{2+} -mediated binding of streptonigrin to DNA, 645

Conjugation
 molecular toxicology and the medicinal chemist, 287

Coumarins
 synthesis via carbon suboxide and pharmacological activity of coumarin derivatives, 693

Cyclic imides
 further studies on analgesic activity of cyclic imides, 55

Cycloalkyl-3-(*N*-substituted carbamoyl)-1-phenylpyrazoles
 new cycloalkylpyrazoles as potential cyclooxygenase inhibitors, 698

Cyclohexylidenehydrazides
 new cyclohexylidenehydrazide and 4-aza-1-thiaspiro[4.5]decan-3-one derivatives of 3-phenyl-4(3*H*)-quinazolinones, 346

Cyclopentene-psoralens
 photobiological studies of new cyclopentene-psoralens, 638

Cysteine
 design and synthesis of glutathione analogues, 721

Cytoprotection
 synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Cytostatic activity
 synthesis and in vitro anticancer activity evaluation of biscarbamic esters of 2,3-bis(hydroxymethyl)-1-methyl-7- and 7,8-substituted-benzo[g]indoles, 161

cytostatic activity of some compounds from the unsaponifiable fraction obtained from virgin olive oil, 448

Cytotoxic activity
 synthesis and in vitro anticancer activity evaluation of biscarbamic esters of 2,3-bis(hydroxymethyl)-1-methyl-7- and 7,8-substituted-benzo[g]indoles, 161

synthesis and cytotoxic activity of *N*-substituted thiosemicarbazones of 3-(3,4-methylenedioxy)phenylpropanal, 241

D_2 -like receptor binding affinity
 synthesis and D_2 -like binding affinity of 4,5-dihydro-1*H*-benzo[g]-indole-3-carboxamide derivatives as conformationally restricted 5-phenyl-pyrrole-3-carboxamide analogs, 684

D_2 receptor affinity
 synthesis and in vitro and in vivo evaluation of dopaminergic ergoline derivatives, 65

Degradation products
 FSQ spectrophotometric and HPLC analysis of some cephalosporins in the presence of their alkali-induced degradation products, 132

Delapril
 structural characterization and solution rotational isomerism of delapril hydrochloride, a dipeptide angiotensin-converting enzyme inhibitor, 214

Densitometry
 melatonin: quantitative analysis in pharmaceutical oral dosage forms using thin-layer chromatography (TLC) densitometry, 443

Derivative ratio spectra spectrophotometry
 simultaneous high performance liquid chromatographic and derivative ratio spectra spectrophotometry determination of chlorpheniramine maleate and phenylephrine hydrochloride, 617

Detoxication
 molecular toxicology and the medicinal chemist, 287

Diastereoisomeric organic ammonium bromides
 stereoisomeric effect on antimicrobial activity of a series of quaternary ammonium salts, 41

Diazabicyclooctane
 synthesis and μ -opioid receptor affinity of a new series of nitro substituted 3,8-diazabicyclo[3.2.1]octane derivatives, 557

Diazabicyclooctanes
 benzocondensed derivatives as rigid analogues of the μ -opioid agonist 3(8)-cinnamyl-8(3)-propionyl-3,8-diazabicyclo[3.2.1]octanes: synthesis, modeling, and affinity, 667

5,8-Dideazafolic acid analogues
 quinoxaline chemistry. Part 10. Quinoxaline 10-oxa-analogues of trimetrexate (TMQ) and of 5,8-dideazafolic acid. Synthesis and evaluation of in vitro anticancer activity, 150

Differentiation
 characterization and applications of human epidermis reconstructed in vitro on de-epidermized derma, 125

Diffusion
 phospholipid-detergent systems: effects of polysorbates on the release of liposomal caffeine, 650

4,5-Dihydro-1*H*-benzo[g]indole-3-carboxamide derivatives
 synthesis and D_2 -like binding affinity of 4,5-dihydro-1*H*-benzo[g]-indole-3-carboxamide derivatives as conformationally restricted 5-phenyl-pyrrole-3-carboxamide analogs, 684

Dihydrofolate reductase
 quinoxaline chemistry. Part 11. 3-Phenyl-2[phenoxy- and phenoxy-methyl]-6(7) or 6,8-substituted quinoxalines and *N*-[4-(6(7)-substituted or 6,8-disubstituted-3-phenylquinoxalin-2-yl)hydroxy or hydroxymethyl]benzoylglutamates. Synthesis and evaluation of in vitro anticancer activity and enzymatic inhibitory activity against dihydrofolate reductase and thymidylate synthase, 480

Dipeptides
structural characterization and solution rotational isomerism of delapril hydrochloride, a dipeptide angiotensin-converting enzyme inhibitor, 214

Direct resolution
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Dissolution rate
dissolution properties of flurazepam capsules, 662

DNA
further insight into the Zn^{2+} -mediated binding of streptonigrin to DNA, 645

DNA synthesis
synthesis and biological properties of a new series of *N*-pyrido substituted tetrahydrocarbazoles, 431

Dopaminergic activity
synthesis and *in vitro* and *in vivo* evaluation of dopaminergic ergoline derivatives, 65

Dosage forms
determination of ethylenediaminetetraacetic acid (EDTA) in pharmaceutical dosage forms using flame atomic absorption spectroscopy, 365

Double-strand breaks
synthesis and biological properties of a new series of *N*-pyrido substituted tetrahydrocarbazoles, 431

Drug analysis
first analytical chemistry study on drug abuse in the Buenos Aires (Argentina) University students, 389

Drug release
dissolution properties of flurazepam capsules, 662

EMT6 tumor
2-mercapto-propylamine: radiopharmacology in mice, pharmacokinetic studies in mice and in rats, mutagenicity and differential distribution between tissues and EMT6 tumour in mice, 118

Enantioselectivity
properties of methoxy(polyethylene glycol)-lipase from *Candida rugosa* in organic solvents, 758

Endothelin
toward the rational development of peptidomimetic analogs of the C-terminal endothelin hexapeptide: development of a theoretical model, 545

Enthalpy-entropy compensation
receptor binding thermodynamics as a tool for linking drug efficacy and affinity, 249

Enzyme inhibition
quinoxaline chemistry. Part 11. 3-Phenyl-2[phenoxy- and phenoxy-methyl]-6(7) or 6,8-substituted quinoxalines and *N*-[4-(6(7)-substituted or 6,8-disubstituted-3-phenylquinoxalin-2-yl)hydroxy or hydroxymethyl]benzoylglutamates. Synthesis and evaluation of *in vitro* anticancer activity and enzymatic inhibitory activity against dihydrofolate reductase and thymidylate synthase, 480

Enzymes in organic solvents
properties of methoxy(polyethylene glycol)-lipase from *Candida rugosa* in organic solvents, 758

Epidermal lipids
characterization and applications of human epidermis reconstructed *in vitro* on de-epidermized derma, 125

Epidermis reconstructed *in vitro*
characterization and applications of human epidermis reconstructed *in vitro* on de-epidermized derma, 125

Ergolines
synthesis and *in vitro* and *in vivo* evaluation of dopaminergic ergoline derivatives, 65

synthesis and antihypertensive activity of 2,4-dioxoimidazolidin-1-yl and perhydro-2,4-dioxopyrimidin-1-yl ergoline derivatives, 293

Ester derivatives
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Esterification
properties of methoxy(polyethylene glycol)-lipase from *Candida rugosa* in organic solvents, 758

ET(16-21)
toward the rational development of peptidomimetic analogs of the C-terminal endothelin hexapeptide: development of a theoretical model, 545

ETA receptor
toward the rational development of peptidomimetic analogs of the C-terminal endothelin hexapeptide: development of a theoretical model, 545

ETB receptor
toward the rational development of peptidomimetic analogs of the C-terminal endothelin hexapeptide: development of a theoretical model, 545

Ethylenediaminetetraacetic acid (EDTA)
determination of ethylenediaminetetraacetic acid (EDTA) in pharmaceutical dosage forms using flame atomic absorption spectroscopy, 365

(*R*)-Ethyl mandelate
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Euglena gracilis
synthesis, antimicrobial activity and bleaching effect of some reaction products of 4-oxo-4*H*-benzopyran-3-carboxaldehydes with amino-benzothiazoles and hydrazides, 224

Flame atomic absorption spectroscopy
determination of ethylenediaminetetraacetic acid (EDTA) in pharmaceutical dosage forms using flame atomic absorption spectroscopy, 365

Flavonoids
acute and chronic antiinflammatory effects of plant flavonoids, 421

Flurazepam capsules
dissolution properties of flurazepam capsules, 662

3-Formylchromone
synthesis, antimicrobial activity and bleaching effect of some reaction products of 4-oxo-4*H*-benzopyran-3-carboxaldehydes with amino-benzothiazoles and hydrazides, 224

Free radicals
modulation of glutamate receptor pathways in the search for new neuroprotective agents, 255

Fullerene
modulation of glutamate receptor pathways in the search for new neuroprotective agents, 255

Full spectrum quantitation
FSQ spectrophotometric and HPLC analysis of some cephalosporins in the presence of their alkali-induced degradation products, 132

Functionalization
molecular toxicology and the medicinal chemist, 287

Furan-2-ones derivatives
antioxidant activity of some ascorbic and cinnamic acids derivatives, 85

Genetics
obesity genes: molecular genetic approaches to drug target identification, 262

γ -Glutamyl peptides
design and synthesis of glutathione analogues, 721

Glutathione analogues
design and synthesis of glutathione analogues, 721

Glycine-NMDA receptor antagonists
synthesis of 2-substituted-6,8-dichloro-3,4-dihydro-3-oxo-2*H*-1,4-benzothiazine-1,1-dioxides and 1-oxides as glycine-NMDA receptor antagonists, 752

Glycyl-leucyl-phenylalanine
validation of the high performance liquid chromatography separation of GLF and related di- and tripeptides, 747

Glycyrrhetic acid
synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

G-protein coupled receptors
receptor binding thermodynamics as a tool for linking drug efficacy and affinity, 249

G proteins
molecular mechanisms involved in the activation and regulation of the α_1 -adrenergic receptor subtype, 273

Granuloma
acute and chronic antiinflammatory effects of plant flavonoids, 421

H_2 antagonists
SAR studies on H_2 antagonists containing alkylamino substituted 1,2,5-thiadiazole 1-oxide moieties, 536

Hetero Diels-Alder cycloaddition
stereoselective synthesis of new β -lactams by cyclocondensation of 1-methoxy-3-(trimethylsilyloxy)-1,3-butadiene with 4-formyl substituted azetidinones, 629

High-performance liquid chromatography
FSQ spectrophotometric and HPLC analysis of some cephalosporins in the presence of their alkali-induced degradation products, 132
simultaneous high performance liquid chromatographic and derivative ratio spectra spectrophotometry determination of chlorpheniramine maleate and phenylephrine hydrochloride, 617
validation of the high performance liquid chromatography separation of GLF and related di- and tripeptides, 747

HIV
antisense activity of an anti-HIV oligonucleotide conjugated to linear and branched high molecular weight polyethylene glycols, 634

HPLC determination
determination of bezafibrate concentration by high performance liquid chromatography in serum of rats treated with lead nitrate, 690

3-Hydroxy-2-naphthoic acid hydrazide derivatives
synthesis, structure elucidation and antimicrobial activity of some 3-hydroxy-2-naphthoic acid hydrazide derivatives, 462

1-(2-Hydroxyethoxy)methylindoles
glycosidopyrroles. Part 3. Effect of the benzocondensation on acyclic derivatives: 1-(2-hydroxyethoxy)methylindoles as potential antiviral agents, 409

1-(2-Hydroxyethoxy)methylpyrroles
glycosidopyrroles. Part 1. Acyclic derivatives: 1-(2-hydroxyethoxy)-methylpyrroles as potential anti-viral agents, 33

4-Hydroxyquinoline
a high-sensitive spectrofluorimetric method for the determination of micromolar concentrations of iron(III) in bovine liver with 4-hydroxyquinoline, 611

3 α -Hydroxysteroid dehydrogenase inhibition
synthesis and pharmacological evaluation of 1-methyl-5-[substituted-4(3H)-oxo-1,2,3-benzotriazin-3-yl]-1H-pyrazole-4-acetic acid derivatives, 350

Hyoscine butylbromide
simultaneous determination of medazepam and hyoscine butylbromide in tablets by second-derivative ultraviolet spectrometry, 62

Hypocholesterolemic agents
synthesis and preliminary pharmacological investigation of some 2-[4-(dialkylaminoalkoxy)phenyl]benzotriazoles and their N-oxides, 102

Ibuprofen
prodrugs. Part 3. 2-Formylphenyl esters of indomethacin, ketoprofen and ibuprofen and 6-substituted 2-formyl and 2-acylphenyl esters of aspirin, 95

Imidazole
synthesis and anti-microbial activity of some imidazo[1',2':5,6]-pyrimido[4,5-c]pyridazines and related heterocycles, 113

Imidazole derivatives
new derivatives of imidazole as potential anticancer agents, 342

Imidazolopyrimidopyridazine
synthesis and anti-microbial activity of some imidazo[1',2':5,6]-pyrimido[4,5-c]pyridazines and related heterocycles, 113

Imide derivatives
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Immobilized artificial membranes
chromatographic indexes on immobilized artificial membranes for the prediction of transdermal transport of drugs, 655

Indole
synthesis, lipophilicity and biological evaluation of indole-containing derivatives of 1,3,4-thiadiazole and 1,2,4-triazole, 320
evaluation of anti-HIV activity of 5-(2-phenyl-3'-indolal)-2-thiohydantoin, 525

Indomethacin
prodrugs. Part 3. 2-Formylphenyl esters of indomethacin, ketoprofen and ibuprofen and 6-substituted 2-formyl and 2-acylphenyl esters of aspirin, 95

Intercalation
synthesis of 2H,9H-naphtho[2,3-b:7,6-b']dipyran-2,9-diones as potential DNA-reactive agents, 675

Inverse agonism
search for selective antagonists at α_1 -adrenoreceptors: neutral or negative antagonism?, 278

Ion-exchange resin
determination of ethylenediaminetetraacetic acid (EDTA) in pharmaceutical dosage forms using flame atomic absorption spectroscopy, 365

Iron
a high-sensitive spectrofluorimetric method for the determination of micromolar concentrations of iron(III) in bovine liver with 4-hydroxyquinoline, 611

Iothiazolo[5,4-b]pyradines
2-substituted-3-oxothiazolo[5,4-b]pyridines as potential central nervous system and antimycobacterial agents, 504

Isoxazole
chemical oxidation of an anticonvulsant *N*-(5'-methylisoxazol-3-yl)-2,6-dimethylbenzamide (D2916), 513

Ketoprofen
prodrugs. Part 3. 2-Formylphenyl esters of indomethacin, ketoprofen and ibuprofen and 6-substituted 2-formyl and 2-acylphenyl esters of aspirin, 95

β -Lactam antibiotics
synthesis and activity of cephalosporins containing an oxyiminomethylene functionality in the *ortho*-position of a phenyl- or phenoxyacetic acid C-7 side chain substituent, 709

β -Lactamase inhibitor
synthesis, analysis and in vitro antibacterial activity of new metal complexes of sulbactam, 737

β -Lactams
a new class of *cis*-monobactam derivatives bearing a sulfamoyloxy-methyl or an *N*-alkylsulfamoyloxy-methyl group at position 4: synthesis and antibacterial activity, 173
stereoselective synthesis of new β -lactams by cyclocondensation of 1-methoxy-3-(trimethylsilyloxy)-1,3-butadiene with 4-formyl substituted azetidinones, 629

Lck
csk-mediated phosphorylation of substrates is regulated by substrate tyrosine phosphorylation, 266

Lead
variations in rat biochemical parameters after buckshot implant, 209

Lead nitrate
determination of bezafibrate concentration by high performance liquid-chromatography in serum of rats treated with lead nitrate, 690

Leukotriene D₄ antagonists
synthesis and preliminary pharmacological investigation of some 2-[4-(dialkylaminoalkoxy)phenyl]benzotriazoles and their N-oxides, 102

Ligand-gated ion channel receptors
receptor binding thermodynamics as a tool for linking drug efficacy and affinity, 249

Lipase
properties of methoxy(polyethylene glycol)-lipase from *Candida rugosa* in organic solvents, 758

Lipophilicity
stereoisomeric effect on antimicrobial activity of a series of quaternary ammonium salts, 41

synthesis, lipophilicity and biological evaluation of indole-containing derivatives of 1,3,4-thiadiazole and 1,2,4-triazole, 320

chromatographic indexes on immobilized artificial membranes for the prediction of transdermal transport of drugs, 655

Liposomes
phospholipid-detergent systems: effects of polysorbates on the release of liposomal caffeine, 650

Liver
a high-sensitive spectrofluorimetric method for the determination of micromolar concentrations of iron(III) in bovine liver with 4-hydroxyquinoline, 611

Liver hyperplasia
determination of bezafibrate concentration by high performance liquid-chromatography in serum of rats treated with lead nitrate, 690

Local anesthetic activity
synthesis of certain unsubstituted, 9-*exo*-(dialkylaminomethyl)-, and 9-*endo*-(aralkyl)-tricyclo[5.2.1.0^{2,6}]decane-8-ketoxime esters and ethers with local anesthetic and analgesic activities, 197

Mannich bases
studies on arylfuran derivatives. Part VII. Synthesis and characterization of some Mannich bases carrying halophenylfuryl moieties as promising antibacterial agents, 531

Medazepam
simultaneous determination of medazepam and hyoscine butylbromide in tablets by second-derivative ultraviolet spectrometry, 62

Melatonin
melatonin: quantitative analysis in pharmaceutical oral dosage forms using thin-layer chromatography (TLC) densitometry, 443

2-Mercapto-propylamine
2-mercaptopropylamine: radiopharmacology in mice, pharmacokinetic studies in mice and in rats, mutagenicity and differential distribution between tissues and EMT6 tumour in mice, 118

Metabotropic glutamate receptors
modulation of glutamate receptor pathways in the search for new neuroprotective agents, 255

Metal complexes of sulbactam
synthesis, analysis and in vitro antibacterial activity of new metal complexes of sulbactam, 737

Methoxymethylthienocoumarins
synthesis and biological activity of linear and angular 4-methoxy-methylthienocoumarins and 4-acetoxymethylthienocoumarins, 313

Methoxy(polyethylene glycol)
properties of methoxy(polyethylene glycol)-lipase from *Candida rugosa* in organic solvents, 758

N-Methyl-D-aspartate (NMDA) receptor
1-aminocyclopropane-1-carboxylic acid derivatives as ligands at the glycine-binding site of the *N*-methyl-D-aspartate receptor, 181

(*S*)-4-(1-Methylethyl)-2-oxazolidinone
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Metronidazole
multifunctional derivatives of metronidazole, 58

Mice
further studies on analgesic activity of cyclic imides, 55

Microbiology
synthesis and antimicrobial activity of some 5-aryl-2-[*(N,N*-disubstituted thiocarbamoylthio)acylamino]-1,3,4-oxadiazoles, 541

Mineralocorticoid
synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Mitoguazone analogues
synthesis and preliminary antileukemic studies of cyclic mitoguazone analogues, 244

Mixed micelles
phospholipid-detergent systems: effects of polysorbates on the release of liposomal caffeine, 650

MLV
phospholipid-detergent systems: effects of polysorbates on the release of liposomal caffeine, 650

Modulators
studies on propafenone-type modulators of multidrug resistance. VI. Synthesis and pharmacological activity of compounds with varied spacer length between the central aromatic ring and the nitrogen atom, 357

Molecular dynamics
molecular mechanisms involved in the activation and regulation of the α_1 -adrenergic receptor subtype, 273

Molecular modelling
pyrazole analogues of prazosin, 519

Molecular targets
obesity genes: molecular genetic approaches to drug target identification, 262

α -Monoalkyl α -aryloxyacetic acids
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Monobactams
a new class of *cis*-monobactam derivatives bearing a sulfamoyloxy-methyl or an *N*-alkylsulfamoyloxyethyl group at position 4: synthesis and antibacterial activity, 173

Multidrug resistance
studies on propafenone-type modulators of multidrug resistance. VI. Synthesis and pharmacological activity of compounds with varied spacer length between the central aromatic ring and the nitrogen atom, 357

Muscarinic receptors
pentatomic cyclic antagonists and muscarinic receptors: a 30-year review, 1

Mutagenesis
photobiological studies of new cyclopentene-psoralens, 638

Mycobacteria
synthesis, antimicrobial activity and bleaching effect of some reaction products of 4-oxo-4*H*-benzopyran-3-carboxaldehydes with amino-benzothiazoles and hydrazides, 224

Naphthopyrone
synthesis of 2H,9H-naphtho[2,3-b:7,6-b']dipyran-2,9-diones as potential DNA-reactive agents, 675

1,8-Naphthyridines
synthesis and evaluation of antimycobacterial activity of 4-phenyl-1,8-naphthyridine derivatives, 741

N-brided heterocycles
studies on some *N*-brided heterocycles derived from bis-[4-amino-5-mercaptop-1,2,4-triazol-3-yl] alkanes, 574

Neuroprotective agents
modulation of glutamate receptor pathways in the search for new neuroprotective agents, 255

Neutral antagonism
search for selective antagonists at α_1 -adrenoreceptors: neutral or negative antagonism?, 278

Nidation inhibitory activity
synthesis and in vitro and in vivo evaluation of dopaminergic ergoline derivatives, 65

synthesis and antihypertensive activity of 2,4-dioxoimidazolidin-1-yl and perhydro-2,4-dioxopyrimidin-1-yl ergoline derivatives, 293

5-Nitrofurfural and 5-nitrothiophene-2-carboxaldehyde derivatives
synthesis and anti-trypanosomal activity of novel 5-nitro-2-furaldehyde and 5-nitrothiophene-2-carboxaldehyde semicarbazone derivatives, 89

Nitroimidazoles
multifunctional derivatives of metronidazole, 58

Nitrones
hydroxyamino sugar derivatives: sugar nitrones, 623

NSAI analogues
synthesis of angelicin heteroanalogues: preliminary photobiological and pharmacological studies, 602

NSAID
prodrugs. Part 3. 2-Formylphenyl esters of indomethacin, ketoprofen and ibuprofen and 6-substituted 2-formyl and 2-acylphenyl esters of aspirin, 95

Nucleic acids
synthesis of 2H,9H-naphtho[2,3-b:7,6-b']dipyran-2,9-diones as potential DNA-reactive agents, 675

Obesity
obesity genes: molecular genetic approaches to drug target identification, 262

Oleanolic acid
synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Oleuropein
cytostatic activity of some compounds from the unsaponifiable fraction obtained from virgin olive oil, 448

Oligonucleotide
antisense activity of an anti-HIV oligonucleotide conjugated to linear and branched high molecular weight polyethylene glycols, 634

Oligopeptides
validation of the high performance liquid chromatography separation of GLF and related di- and tripeptides, 747

Olive oil
cytostatic activity of some compounds from the unsaponifiable fraction obtained from virgin olive oil, 448

Opioid receptors
synthesis and μ -opioid receptor affinity of a new series of nitro substituted 3,8-diazabicyclo[3.2.1]octane derivatives, 557

benzocondensed derivatives as rigid analogues of the μ -opioid agonist 3(8)-cinnamyl-8(3)-propionyl-3,8-diazabicyclo[3.2.1]octanes: synthesis, modeling, and affinity, 667

Optical resolution
diastereomeric separation of 1,5-benzodiazepines due to the presence of a chiral centre on the N-5 alkyl chain, 49

Oral dosage forms
melatonin: quantitative analysis in pharmaceutical oral dosage forms using thin-layer chromatography (TLC) densitometry, 443

Overlay kinase assay
csk-mediated phosphorylation of substrates is regulated by substrate tyrosine phosphorylation, 266

2-Oxabicyclo[3.3.0]octane system
synthesis and pharmacological evaluation of a new class of bicyclic phospholipids, designed as platelet activating factor antagonists, 327

3-Oxa- or 3-diazabicyclo[3.2.0]hept-1-en-2,7-dione and 5,9-dioxa- or 5,9-diazabicyclo[5.3.0]dec-1-en-3-methyliden-6,8-dione derivatives
one-step synthesis of new 3-oxa- or 3-diazabicyclo[3.2.0]hept-5-en-2,7-dione and 5,9-dioxa- or 5,9-diazabicyclo[5.3.0]dec-1-en-3-methyliden-6,8-dione derivatives, 680

Oxidation
chemical oxidation of an anticonvulsant *N*-(5'-methylisoxazol-3-yl)-2,6-dimethylbenzamide (D2916), 513

Oxyacetamido cephalosporins
synthesis and activity of cephalosporins containing an oxyimino-methylene functionality in the *ortho*-position of a phenyl- or phenoxyacetic acid C-7 side chain substituent, 709

Oximino-methylene cephalosporins
synthesis and activity of cephalosporins containing an oxyimino-methylene functionality in the *ortho*-position of a phenyl- or phenoxyacetic acid C-7 side chain substituent, 709

(*R*)-Pantolactone
direct resolution of α -monoalkyl- α -aryloxyacetic acids via ester or imide derivatives, 73

Pentacyclic triterpenes
synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Pentatomic cyclic antagonists
pentatomic cyclic antagonists and muscarinic receptors: a 30-year review, 1

P-glycoprotein
studies on propafenone-type modulators of multidrug resistance. VI. Synthesis and pharmacological activity of compounds with varied spacer length between the central aromatic ring and the nitrogen atom, 357

Pharmaceutical analysis
determination of ethylenediaminetetraacetic acid (EDTA) in pharmaceutical dosage forms using flame atomic absorption spectroscopy, 365

Pharmaceutical formulations
three approaches to the analysis of zinc (II) in pharmaceutical formulations by means of different spectrometric methods, 563

simultaneous high performance liquid chromatographic and derivative ratio spectra spectrophotometry determination of chlorpheniramine maleate and phenylephrine hydrochloride, 617

Pharmacological activity
synthesis via carbon suboxide and pharmacological activity of coumarin derivatives, 693

Phase transfer catalysis
synthesis and activity of cephalosporins containing an oxyimino-methylene functionality in the *ortho*-position of a phenyl- or phenoxyacetic acid C-7 side chain substituent, 709

Phenoxyquinoxalines
quinoxaline chemistry. Part 12: 3-Carboxy-2[phenoxy]-6(7)substituted quinoxalines and *N*-(4-(6(7)substituted-3-carboxyquinoxalin-2-yl)hydroxybenzoyl)glutamates. Synthesis and evaluation of in vitro anticancer activity, 594

N-Phenyl derivatives
investigations on the synthesis and properties of *N*-phenyl derivatives of 1,4-dioxo(1,4,5-trioxo)-1,2,3,4-tetra(1,2,3,4,5,6-hexa)-hydropyrido[3,4-d]pyridazines and allied compounds, 468

3-Phenyl-4(3H)-quinazolinones
new cyclohexylidenehydrazide and 4-aza-1-thiaspiro[4.5]decan-3-one derivatives of 3-phenyl-4(3H)-quinazolinones, 346

Phenylephrine hydrochloride
simultaneous high performance liquid chromatographic and derivative ratio spectra spectrophotometry determination of chlorpheniramine maleate and phenylephrine hydrochloride, 617

Photosensitizers
synthesis of angelicin heteroanalogues: preliminary photobiological and pharmacological studies, 602

Phototoxicity

synthesis and biological activity of linear and angular 4-methoxy-methylthienocoumarins and 4-acetoxymethylthienocoumarins, 313

photobiological studies of new cyclopentene-psoralens, 638

Piperazine derivatives

synthesis and evaluation of antimycobacterial activity of 4-phenyl-1,8-naphthyridine derivatives, 741

Piperidinamides

synthesis of 1-methyl-4-(*N*-aryl)-piperidinamides with anti-inflammatory and analgesic activities, 233

Platelet activating factor (PAF) antagonists

synthesis and pharmacological evaluation of a new class of bicyclic phospholipids, designed as platelet activating factor antagonists, 327

Polyethylene glycol

antisense activity of an anti-HIV oligonucleotide conjugated to linear and branched high molecular weight polyethylene glycols, 634

Prazosin analogues

pyrazole analogues of prazosin, 519

Prodrugs

prodrugs. Part 3. 2-Formylphenyl esters of indomethacin, ketoprofen and ibuprofen and 6-substituted 2-formyl and 2-acylphenyl esters of aspirin, 95

Propafenone

studies on propafenone-type modulators of multidrug resistance. VI. Synthesis and pharmacological activity of compounds with varied spacer length between the central aromatic ring and the nitrogen atom, 357

Propargyl-dideazafolic acid analogues

quinoxaline chemistry. Part 9. Quinoxaline analogues of trimetrexate (TMQ) and 10-propargyl-5,8-dideazafolic acid (CB 3717) and its precursors. Synthesis and evaluation of in vitro anticancer activity, 139

Protein modification

properties of methoxy(polyethylene glycol)-lipase from *Candida rugosa* in organic solvents, 758

Pyranos[2,3-c]pyrazol-4-ones

synthesis and A₁ and A_{2A} adenosine binding activity of some pyranos[2,3-c]pyrazol-4-ones, 189

Pyrazine

facile synthesis of some new pyrazolo[3,4-b]pyrazines and their antifungal activity, 383

Pyrazole

facile synthesis of some new pyrazolo[3,4-b]pyrazines and their antifungal activity, 383

Pyrazole derivatives

pyrazole analogues of prazosin, 519

Pyrazolopyrazine

facile synthesis of some new pyrazolo[3,4-b]pyrazines and their antifungal activity, 383

Pyrazoloquinolinones

structure-activity relationship investigations of the modulating effect of core substituents on the affinity of pyrazoloquinolinone congeners for the benzodiazepine receptor, 579

Pyridazine

synthesis and anti-microbial activity of some imidazo[1',2':5,6]-pyrimido[4,5-c]pyridazines and related heterocycles, 113

Pyridotetrahydrocarbazoles

synthesis and biological properties of a new series of *N*-pyrido substituted tetrahydrocarbazoles, 431

Pyrido[3,4-d]pyridazines

investigations on the synthesis and properties of *N*-phenyl derivatives of 1,4-dioxo(1,4,5-trioxo)-1,2,3,4-tetra(1,2,3,4,5,6-hexa)-hydropyrido[3,4-d]pyridazines and allied compounds, 468

QSAR

structure-activity relationship investigations of the modulating effect of core substituents on the affinity of pyrazoloquinolinone congeners for the benzodiazepine receptor, 579

Quinoline derivatives

synthesis and pharmacological properties of some quinoline derivatives, 399

2-Quinoxalinecarbonitriles

synthesis and antituberculosis activity of some new 2-quinoxaline-carbonitriles, 570

Quinoxaline derivatives

quinoxaline chemistry. Part 9. Quinoxaline analogues of trimetrexate (TMQ) and 10-propargyl-5,8-dideazafolic acid (CB 3717) and its precursors. Synthesis and evaluation of in vitro anticancer activity, 139

quinoxaline chemistry. Part 10. Quinoxaline 10-oxa-analogues of trimetrexate (TMQ) and of 5,8-dideazafolic acid. Synthesis and evaluation of in vitro anticancer activity, 150

quinoxaline chemistry. Part 12: 3-Carboxy-2[phenoxy]-6(7) substituted quinoxalines and *N*-[4-(6(7) substituted-3-carboxyquinoxalin-2-yl)hydroxybenzoyl]glutamates. Synthesis and evaluation of in vitro anticancer activity, 594

Quinoxalinones

synthesis of substituted 2-ethoxycarbonyl- and 2-carboxyquinoxalin-3-ones for evaluation of antimicrobial and anticancer activity, 455

Radioprotection

2-mercapto-propylamine: radiopharmacology in mice, pharmacokinetic studies in mice and in rats, mutagenicity and differential distribution between tissues and EMT6 tumour in mice, 118

Ranitidine analogues

SAR studies on H₂ antagonists containing alkylamino substituted 1,2,5-thiadiazole 1-oxide moieties, 536

Rat

variations in rat biochemical parameters after buckshot implant, 209

Reactive metabolites

molecular toxicology and the medicinal chemist, 287

Receptor classification

search for selective antagonists at α_1 -adrenoreceptors: neutral or negative antagonism?, 278

Regioselectivity

chemical oxidation of an anticonvulsant *N*-(5'-methylisoxazol-3-yl)-2,6-dimethylbenzamide (D2916), 513

Rotational isomerism

structural characterization and solution rotational isomerism of delapril hydrochloride, a dipeptide angiotensin-converting enzyme inhibitor, 214

Safrole

synthesis and cytotoxic activity of *N*-substituted thiosemicarbazones of 3-(3,4-methylenedioxy)phenylpropanal, 241

SAR in H₂ antagonists

SAR studies on H₂ antagonists containing alkylamino substituted 1,2,5-thiadiazole 1-oxide moieties, 536

Schiff bases

studies on arylfuran derivatives. Part VII. Synthesis and characterization of some Mannich bases carrying halophenylfuryl moieties as promising antibacterial agents, 531

Second-derivative ultraviolet spectrometry

simultaneous determination of medazepam and hyoscine butylbromide in tablets by second-derivative ultraviolet spectrometry, 62

Semicarbazones

synthesis and anti-trypanosomal activity of novel 5-nitro-2-furaldehyde and 5-nitrothiophene-2-carboxaldehyde semicarbazone derivatives, 89

Sister chromatid exchanges

synthesis and biological properties of a new series of *N*-pyrido substituted tetrahydrocarbazoles, 431

Skin permeation

chromatographic indexes on immobilized artificial membranes for the prediction of transdermal transport of drugs, 655

Spectrofluorimetric determination
a high-sensitive spectrofluorimetric method for the determination of micromolar concentrations of iron(III) in bovine liver with 4-hydroxyquinoline, 611

Spectrometric methods
three approaches to the analysis of zinc(II) in pharmaceutical formulations by means of different spectrometric methods, 563

Spirothiazolidinones
new cyclohexylidenehydrazide and 4-aza-1-thiaspiro[4.5]decan-3-one derivatives of 3-phenyl-4(3H)-quinazolinones, 346

Src
csk-mediated phosphorylation of substrates is regulated by substrate tyrosine phosphorylation, 266

Stereochemistry
synthesis of certain unsubstituted, 9-*exo*-(dialkylaminomethyl)-, and 9-*endo*-(aralkyl)-tricyclo[5.2.1.0^{2,6}]decane-8-ketoxime esters and ethers with local anesthetic and analgesic activities, 197

Stereoisomerism
stereoisomeric effect on antimicrobial activity of a series of quaternary ammonium salts, 41

Stereoselectivity
stereoselective synthesis of new β -lactams by cyclocondensation of 1-methoxy-3-(trimethylsilyloxy)-1,3-butadiene with 4-formyl substituted azetidinones, 629

Sterols
cytostatic activity of some compounds from the unsaponifiable fraction obtained from virgin olive oil, 448

Streptonigrin
further insight into the Zn²⁺-mediated binding of streptonigrin to DNA, 645

Structure-activity relationships
synthesis of certain unsubstituted, 9-*exo*-(dialkylaminomethyl)-, and 9-*endo*-(aralkyl)-tricyclo[5.2.1.0^{2,6}]decane-8-ketoxime esters and ethers with local anesthetic and analgesic activities, 197

studies on propafenone-type modulators of multidrug resistance. VI. Synthesis and pharmacological activity of compounds with varied spacer length between the central aromatic ring and the nitrogen atom, 357

synthesis and D₂-like binding affinity of 4,5-dihydro-1H-benzo[g]-indole-3-carboxamide derivatives as conformationally restricted 5-phenyl-pyrrole-3-carboxamide analogs, 684

further structure-activity relationships in the series of tropanyl esters endowed with potent antinociceptive activity, 764

Strychnine-insensitive glycine site
1-aminocyclopropane-1-carboxylic acid derivatives as ligands at the glycine-binding site of the N-methyl-D-aspartate receptor, 181

Student drug abuse
first analytical chemistry study on drug abuse in the Buenos Aires (Argentina) University students, 389

Substituent effects
structure-activity relationship investigations of the modulating effect of core substituents on the affinity of pyrazoloquinolinone congeners for the benzodiazepine receptor, 579

Substituted 1,2,4-triazoline-3-thiones
synthesis and anti-inflammatory activity of esters derived from 5-aryl-1,2-dihydro-2-(2-hydroxyethyl)-3H-1,2,4-triazole-3-thiones, 590

Substituted thiadiazolones
preparation of new 5-arylamino substituted 3-nicotinoyl/isonicotinoyl-1,3,4-thiadiazol-2(3H)-ones with anti-inflammatory activity, 586

Substituted-triazole derivatives
synthesis and antimicrobial activity of N-[α -methylbenzylidene]-3-substituted-1,2,4-triazol-5-yl-thio)acetohydrazides, 773

Sulbactam
synthesis, analysis and in vitro antibacterial activity of new metal complexes of sulbactam, 737

Sulfones
synthesis and antimicrobial activity of coumarin 7-substituted cephalosporins and sulfones, 425

Sustained release
phospholipid-detergent systems: effects of polysorbates on the release of liposomal caffeine, 650

SUV
phospholipid-detergent systems: effects of polysorbates on the release of liposomal caffeine, 650

Synthesis
synthesis and antimicrobial activity of some 5-aryl-2-[*N,N*-disubstituted thiocarbamoylthio)acylamino]-1,3,4-oxadiazoles, 541

photobiological studies of new cyclopentene-psoralens, 638

T2 bacteriophage
synthesis and biological properties of a new series of *N*-pyrido substituted tetrahydrocarbazoles, 431

Technological characteristics
dissolution properties of flurazepam capsules, 662

Tetracyclo
synthesis of 2H,9H-naphtho[2,3-b:7,6-b']dipyran-2,9-diones as potential DNA-reactive agents, 675

Theoretical model
toward the rational development of peptidomimetic analogs of the C-terminal endothelin hexapeptide: development of a theoretical model, 545

Thermodegradation
influence of temperature on the degradation of climbazol in aqueous diluted solutions, 405

1,3,4-Thiadiazol-2(3H)-ones
preparation of new 5-arylamino substituted 3-nicotinoyl/isonicotinoyl-1,3,4-thiadiazol-2(3H)-ones with anti-inflammatory activity, 586

1,3,4-Thiadiazole
synthesis, lipophilicity and biological evaluation of indole-containing derivatives of 1,3,4-thiadiazole and 1,2,4-triazole, 320

Thiadiazolotriazinones
synthesis of some new biologically active thiadiazolotriazinones, 395

Thin-layer chromatography
melatonin: quantitative analysis in pharmaceutical oral dosage forms using thin-layer chromatography (TLC) densitometry, 443

Thiohydantoin
evaluation of anti-HIV activity of 5-(2-phenyl-3'-indolal)-2-thiohydantoin, 525

Thiols
design and synthesis of glutathione analogues, 721

Thiophene derivatives
synthesis and pharmacological properties of some quinoline derivatives, 399

Thiosemicarbazones
synthesis and cytotoxic activity of *N*-substituted thiosemicarbazones of 3-(3,4-methylenedioxy)phenylpropanal, 241

Thromboxane A₂ antagonists
synthesis and preliminary pharmacological investigation of some 2-[4-(dialkylaminoalkoxy)phenyl]benzotriazoles and their N-oxides, 102

Toxication
molecular toxicology and the medicinal chemist, 287

1,2,4-Triazole
synthesis, lipophilicity and biological evaluation of indole-containing derivatives of 1,3,4-thiadiazole and 1,2,4-triazole, 320

1,2,3-Triazolo[1,5-a][1,4]benzodiazepine
1,2,3-triazolo[1,5-a][1,4]- and 1,2,3-triazolo[1,5-a][1,5]benzodiazepine derivatives: synthesis and benzodiazepine receptor binding, 305

1,2,3-Triazolo[1,5-a][1,5]benzodiazepine
1,2,3-triazolo[1,5-a][1,4]- and 1,2,3-triazolo[1,5-a][1,5]benzodiazepine derivatives: synthesis and benzodiazepine receptor binding, 305

Tricyclo[5.2.1.0^{2,6}]decane-8-ketoxime esters and ethers
synthesis of certain unsubstituted, 9-*exo*-(dialkylaminomethyl)-, and 9-*endo*-(aralkyl)-tricyclo[5.2.1.0^{2,6}]decane-8-ketoxime esters and ethers with local anesthetic and analgesic activities, 197

Tricyclo[6.2.2.0^{1,6}]dodecane
synthesis of *N,N'*-bis-substituted diimides related to tricyclo[6.2.2.0^{1,6}]dodecane with an expected activity on the central nervous system, 451

Trimetrexate analogues
quinoxaline chemistry. Part 9. Quinoxaline analogues of trimetrexate (TMQ) and 10-propargyl-5,8-dideazafolic acid (CB 3717) and its precursors. Synthesis and evaluation of in vitro anticancer activity, 139

quinoxaline chemistry. Part 10. Quinoxaline 10-oxa-analogues of trimetrexate (TMQ) and of 5,8-dideazafolic acid. Synthesis and evaluation of in vitro anticancer activity, 150

Tropanyl esters
further structure-activity relationships in the series of tropanyl esters endowed with potent antinociceptive activity, 764

Trypanothione
design and synthesis of glutathione analogues, 721

Tuberculosis
synthesis and antituberculosis activity of some new 2-quinoxalinecarbonitriles, 570

Tuberculostatic agents
synthesis and evaluation of antimycobacterial activity of 4-phenyl-1,8-naphthyridine derivatives, 741

Tyrosine kinase
csk-mediated phosphorylation of substrates is regulated by substrate tyrosine phosphorylation, 266

Tyrosol
cytostatic activity of some compounds from the unsaponifiable fraction obtained from virgin olive oil, 448

Urine analysis
first analytical chemistry study on drug abuse in the Buenos Aires (Argentina) University students, 389

Ursolic acid
synthesis and anti-ulcer activity of new derivatives of glycyrrhetic, oleanolic and ursolic acids, 22

Usnic acid
new esters of *R*-(+)-usnic acid, 718

Usnic acid esters
new esters of *R*-(+)-usnic acid, 718

Validation
validation of the high performance liquid chromatography separation of GLF and related di- and tripeptides, 747

Writhing test
further studies on analgesic activity of cyclic imides, 55

Zinc
further insight into the Zn²⁺-mediated binding of streptonigrin to DNA, 645

Zinc(II)
three approaches to the analysis of zinc(II) in pharmaceutical formulations by means of different spectrometric methods, 563