

Subject Index

- Acetylcholine 137
 Activation (Mechanical) of Pharmaceutical Systems 302
 β -Adrenoreceptor Agonists 156
 Alaproclate 264
 Albuterol 156
 Ambelline, 11-*O*-Acetyl- and 11-*O*-Acetyl-1,2- β -epoxy- 251
 Amiloride: Analysis 143
 Amrinone: Pharmacokinetics 176
 Anipamil 130
 Anti-Leishmanial Agents: Inosine Analogs 217
 Antimicrobial Agents: 5-Nitrofurantoin Derivatives 42
 Antitumor Antibiotics 77
 Arachidonic Acid: Metabolism 253
 Aspirin 148, 264
- Bambuterol 156
 Benserazide 315
 Bitolterol 156
 Bronchodilators, Sympathomimetic 156
 Brush Border Membrane Vesicles: Use for Studying Drug Transport 284
 Buciclovir 264
 Buprenorphine 178
- Carbapenems 3
 Cefmetazole
 - Possible Mechanism Regulating Barrier Function of Intestinal Mucosa against Permeation of the Hydrophilic Drug 307
 - Uptake into Brain under the Influence of Salicylate 243
 Cefotaxime: Pharmacokinetics 124
 Cefoxitin: Uptake Studies 293
 Cellulose Derivatives as Film Formers 14, 19
 Cephalosporins 3, 124
 Cephamycins 3
p-Chlorophenylalanine 315
 Chlorpromazine 119
 Cholesterol Levels Under the Influence of Furan-carboxylic and Furylacrylic Acids 233
 Cholinergic Modulation (Central) of Peripheral Inflammation 137
 Clenbuterol 156
 Colterol 156
 Computer Modeling of Pharmacokinetics: Fluorouracil and Thymine 211
 Copper (I) Complexes with *N*-Heteroarenes Related to 2,2'-Bipyridine: Partition Coefficients 181
Crinum latifolium as a Source of Immunoregulating Alkaloids 251
 7-Cyano-7-deazainosine 217
 Cyanonaphthylidomycin: Interaction with DNA 77
 γ -Cyclodextrin: Effect on Solubility of Progesterone in Phosphate Buffer, Dependence on Derivatization 309
- 7-Deazainosine and its 7-Aminocarbonyl- and 7-Bromo-Derivatives 217
 Depo-nit TTS 23
- Desoxycorticosterone Acetate/NaCl Hypertension: Role of Peripheral Adrenergic Responsiveness 298
 Dextran: Effect on Release of Gonadotropin-Releasing Hormone 198
 Diazepam: Intestinal Absorption 221
 Diclofenac: Rectal Absorption from a Gel Preparation and Bioavailability 166
 Dicumarol 97
 5,6-Dihydroxytryptamine 313, 315
 Dipivefrine 156
 DNA: Interaction with Cyanonaphthylidomycin 77
 Drugs (General) *see also*: Drug Release
 - Absorption in Small Intestine: The Potential Role of Mucus 162
 - Avoidance of First-Pass Metabolism as a Function of the Absorption Site in Rectum 53
 - Bioavailability Dependence on Site of Application 99
 - Computer-Supported Drug Development 30
 - Correlation of Uptake in Cells and Rings with *in vivo* Bioavailability 293
 - Cutaneous Absorption 23, 202, 206
 - Dissolution from Tablets 75
 - Dissolution Kinetics in Preformulation 262
 - *in vitro* Drug Absorption Models 284, 293
 - Intestinal Absorption: Modification by Lipoidal Adjuvants 108
 - *in situ* Intestinal Absorption of a Poorly Water-Soluble Drug 221
 - Liposome-Encapsulated Drugs: Lymphatic Transport after Intraperitoneal Administration 271
 - Lymphotropic Delivery 116
 - Mechanical Activation of Pharmaceutical Systems 302
 - Molecular Weight of Free and Drug-Loaded Nanoparticles 36
 - Peptides and Proteins 151
 - Preformulation: Dissolution Kinetics 262
 - Uptake and Response: Dependence on Endogenous and Exogenous Factors 97
 Drug Analysis and Determination
 - Amiloride 143
 - Aspirin + Salicylic Acid, Simultaneously 148
 - Nitroglycerol 25
 - Thimerosal 73
 - Tiaramide 140
 - Tocainide 311
 Drug Release
 - from Suppositories 61
 - from Transdermal Therapeutic Systems 23
 - Sustained Release Pellets 30
- Epinephrine 156
 Etoposide; Absorption in Small Intestine 162
 Eudragit 14
 Everted Intestinal Rings: Use for Studying Drug Transport 284
- Fenoterol 156
 Film Formers for Tablets Manufacture 14
- 5-Fluoro-5'-deoxyuridine: Effect of Age (of Rats) on Disposition and Tissue Clearance 279
 Fluorohydrocarbons: Use of Lymphoblastoid Namalva Cell Cultures in a Toxicity Test 246
 2'-Fluoro-*ara*-hypoxanthine 217
 Fluorouracil
 - Computer Modeling of Pharmacokinetics 211
 - Effect of Age (of Rats) on Disposition and Tissue Clearance 279
 - Kinetic Interaction with Thymine 211
 5-Fluorouracil Prodrugs: Effect on Central Nervous System 83
 Fluphenazine 119
 Formycin B 217
 Furan-carboxylic Acids: Hypolipidemic Activity 233
 Furans, 2-Iminomethyl-5-nitro-: Synthesis and Antimicrobial Activity 42
 Furylacrylic Acid: Hypolipidemic Activity 233
- Gelatin Nanocapsules: Preparation and Characterization 239
 Gonadotropin-Releasing Hormone: Effect of Dextran on Release 198
- Hemicholinium 137
 Hexoprenaline 156
 5-Hydroxytryptophan 315
 Hypolipidemic Agents 233
- Immuno-regulant Alkaloids 251
In Vitro-in Vivo Correlation: An Unrealistic Problem 97
 Indomethacin
 - Cutaneous Absorption 202
 - Salivary Levels after Intravenous Administration 185
 Inflammation, peripheral: Possible Central Cholinergic Modulation 137
 Inosine Analogs as Anti-Leishmanial Agents 217
 Inosine, Carbocyclic 217
 Interferon α : Enhancement of Enteral Absorption and Transfer into Lymphatics 249
 Iron Chelators as Lipoxygenase Inhibitors 253
 Isoetharine 156
 Isoproterenol 156, 298
 Isosorbide Dinitrate: Effect on Platelet Aggregation and Thromboxane Formation 87
 Isosorbide 2-Nitrate 87
 Isosorbide 5-Nitrate 30, 87
- KWD 2131 156
- Labeled Drugs: Comparison of ^{14}C - and ^{131}I -Labeled Somatostatin Analogs 80
 β -Lactam Antibiotics
 - Cleavage by β -Lactamases 55
 - Mode of Action and Mechanism of Resistance 3
 β -Lactamase: Molecular Basis of Catalysis and Inhibition 55
 Leukotriene Biosynthesis Inhibitors 253

- Lipid Surfactant Mixed Micelles: Effect on Intestinal Absorption of Drugs 111
- Liposome-Encapsulated Drugs: Lymphatic Transport after Intraperitoneal Administration 271
- Liposomes: Preparation 272
- 5-Lipoxygenase Enzyme Mechanism 253
- Lymphoblastoid Namalva Cell Cultures, Use in a Toxicity Test 246
- Metaproterenol 156
- Metergoline 315
- α -Methyl dopa: Uptake Studies 293
- 1- and 2-Methylformycin B 217
- Methysergide 313, 315
- Mucosal Cells, Isolated: Use for Studying Drug Transport 284
- Naltrexone 266
- Naxolone 266
- Nitroglycerol: Transdermal Delivery 23, 206
- Nitroxyls ("Nitroxides"): Pharmacokinetics 69
- Opioid Receptor Probes, Fluorescent: Synthesis and Characterization 266
- Oxygen: Determination of Dissolved Oxygen in Heterogeneous Systems 44
- Oxymorphone 266
- Papaverine: pH-Dependence of Solubility 65
- Paracetamol 75
- PCA (Spin Label) 69
- Penicillins 3
- Pentobarbital 264
- Peptides as Drugs 151
- Peripheral Adrenergic Responsiveness in DOCA/NaCl Hypertension 298
- Perturbed Angular Correlation Technique 75
- Phenacetin 75
- Phenobarbitone 313
- Phenothiazines: Partitioning between Phosphate Buffer and Cyclohexane, Octanol, or DMPC Liposomes 119
- Phenytoin 313
- Phosphinic Acid, 1-Aminoalkyl-: Synthesis and Antibacterial Activity 135
- Phosphinic Acid Analogs of Amino Acids: Antibacterial Activity 135
- Pirazolac: Pharmacokinetics 188
- Platelet Aggregation Inhibition: by Isosorbide Nitrates 87
- Poly[alkyl cyanoacrylates]: Molecular Weight of Free and Drug-Loaded Nanoparticles 36
- Polymethacrylate Copolymers: as Film Formers 14
- Preformulation of Drugs: Dissolution Kinetics 262
- Primaquine 231
- Primaquine I, Acylation 46
- Primaquine Metabolites in Bile 231
- Procaterol 156
- Prochlorperazine Mesylate 119
- Promethiazine 119
- Propantheline Bromide: Adsorption and Stability on Silica Surfaces in Aqueous Dispersions 170
- Propranolol 53
- Prostaglandins: Effect on Central Serotonergic Activity 195
- Prostaglandin D₂ - Induced Potentiation of Anticonvulsant Actions of Phenobarbitone and Phenytoin 313
- Proteins as Drugs 151
- Pyridine, 1-Methyl-4-phenyl-1,2,3,6-tetrahydro-, Hydrochloride: Structure 192
- Pyrimidines, 6-Chloro-5-nitro-: Antifungal Activity and Synthesis 146
- Quipazine 315
- Raclopride 264
- Remoxipride 264
- Reproterol 156
- Resistance: β -Lactam Antibiotics 1, 55
- Rimiterol 156
- Ronipamil 130
- Salicylic Acid
 - Determination in the Presence of Aspirin 148
 - Dissolution from Tablets 75
 - Effect on Uptake of Cefmetazole into the Brain 243
 - Thermodynamics of Distribution in Semi-Solid Ointment Bases 225
 - Uptake Studies 284, 293
- Salicylic Esters: Thermodynamics of Distribution in Semi-Solid Ointment Bases 225
- Serotonin 313, 315
- 7-Selenoformycin B 217
- Serotonergic Activity (Central) of Prostaglandins 195
- Serotonergic Modulation (Central) of Peripheral Inflammation 315
- Solubility of Organic Bases: pH Dependence 65
- Somatostatin Analogs, Cyclic 80
- Spin Labels: Pharmacokinetics 69
- Sulfamethizole 264
- Suppositories: Drug Release 6f
- Sustained Release Pellets 30
- Suxamethonium Chloride 98
- Tablet-Coating Materials 14, 29
- Terbutaline 156
- TES (Spin Label) 69
- Tiaramide
 - pH Dependence of Solubility 65
 - Determination 140
- Tiaramide Metabolites: Determination 140
- Theophylline
 - Clearance 99
 - Uptake Studies 293
- Thimerosal: Analysis 73
- 7-Thioformycin B 217
- Thymine
 - Computer Modeling of Pharmacokinetics 211
 - Kinetic Interaction with Fluorouracil 211
- Transdermal Therapeutic Systems 23
- Traumatic Shock: Salutary Effects of Verapamil Analogs 130
- Tremorine 137
- Triamterene Derivatives: Antimagnesiuretic Effect 90
- Triazene *N*-Oxides: Anticonvulsant and Monoamine Oxidase Inhibitory Activities 49
- Trifluoperazine 119
- Trimeprazine Tartrate 119
- Trimethoprim 265
- Verapamil, Stereoselective Interaction with Muscarinic Receptor 94
- Verapamil Analogs: Salutary Affects in Traumatic Shock 130