

Subject Index to Volume 11 (1994)

- (+)-limonene, 377
(-)-carbovir, intestinal absorption, 267
(Asu^{1,7})-eel calcitonin, pulmonary absorption, 909
(GM-CSF), ELISA, 365
(HMG-CoA) reductase inhibitors, 305
1-deoxymannojirimycin, 144
2-hydroxypropyl- β -cyclodextrin, 1766
2',3'-dideoxyinosine, cerebrospinal fluid, 312
2',3'-dideoxyinosine, transdermal, 809
5-fluorouracil, liquid scintillation spectrometry, 1315
16-membered macrolides, 458
2,5-diphenyloxazole, fluorescence, 331
[D-Ala²,D-Leu⁴]enkephalin, 1367
 α 1-acid glycoprotein fluorescent probe, 566
absorption enhancer, 1625
absorption enhancer, decanoic acid, 388, 1401
acetaminophen crystals, 616
acetaminophen, transport rates 283
acidic fibroblast growth factor, 65
active ion transport, 1148
acyclovir prodrugs, 243
acyclovir, nasal delivery, 237
aerosol inhalation, detirelix, 1056
aerosols, 221
aerosols, rhDNase, 491
agglomerate dispersion, 1557
aggregation pathway, 1581
albuterol, dosing reproducibility, 580
alfentanyl, heart rate, 128
aliphatic alcohols, FT-IR, 561
altered enzyme hypothesis, 420
alternative complement pathway, 372
alveolar epithelium, permeability, 513
alveolar macrophages, 1110
aminoglycoside 3'-phosphotransferase II, 609
aminoglycoside nephrotoxicity, 609
aminopropylguanidine, 1211
amiodarone, intestinal absorption, 1042
amiodarone.HCl, ¹³C solid state NMR, 1088
amorphous solid, water content, 471
amoxicillin, 860
amoxicillin absorption, 1346
ampicillin, nanoparticles, 38
amylodextrin, 384, 499
amylodextrin, suppository, 108
Anderson cascade impactor, 604
anisotropy, 616
anticonvulsant activity, 1429
antigen, sustained delivery, 2
antihyperkeratinization, 192
antioxidant enzyme catalase, 1110
antipyrine, permeability, 1540
aqueous colloidal dispersions, 882
aqueous polymeric dispersion, 1562
arginine, transport rates, 283
Asp-hexapeptide, solid state chemical stability, 901
aspartyl residues, degradation, 751
astrocytes, chloride transport, 47
atovaquone, 1545
atrial natriuretic peptide, 60
atrial natriuretic peptide, 1726
azidothymidine, central nervous system, 324
azo polymers, 1737
azole antifungal agents, 961
azole probes, 951
AZT, blood brain barrier, 324
 β -cyclodextrin, 1207
 β -estradiol, freshly excised human skin, 1777
 β -estradiol, transport, 1777
 β -lactam antibiotic B02669, 1363
BDNF, transport, 738
benazeprilat, site differential absorption, 432
benzoic acid, transcellular transport, 30
bile salts, 1755
bile salts, absorption, 243
bioequivalence, 715, 966, 831, 1330
bioerodible polymer, 1607
bioinversion, ibuprofen enantiomers, 824
biorelevant dissolution, 800
brain microvessel endothelium, 1367
brain natriuretic peptide, 60
buccal drug delivery, 83
calcitonin, nasal delivery, 747
carbidopa, pharmacokinetics, 549
carbonic anhydrase inhibitors, 438
carboplatin, cytotoxicity, 1265
CCK-A receptor antagonist, 1704
ceftibuten, Caco-2 uptake, 1761
celiprolol, dose-dependent absorption, 648
celiprolol, intestinal secretion, 648
cell proliferation assays, 1127
cell toxicity assays, 1127
cetirizine 295
chemoembolization, 1792
chimeric antibody, stability, 764
chiral derivatization, 449
chiral separation, 449
chitosan, nasal delivery, 1186
chlorhexidine, 1207
chlorpromazine permeability, 665
cholinergic stimulus, 794
cimetidine, 295, 1419
cimetidine, intestinal uptake, 1601
cimetidine, pharmacokinetics, 341
ciprofloxacin, 917, 1424
ciprofloxacin, solubility, 522
cisplatin, cytotoxicity, 1265
cisplatin, microspheres, 1792
co-compressate, 1391
colloidal drug carrier, 869
colloidal drug carrier system, 589
colon specific drug delivery, 1737
colonic absorption, insulin like growth factor, 226
colonic drug delivery, 1707
comparative molecular field analysis, 47, 257
complement activation factor, 372
controlled release, 111
convective diffusion, 1288, 1391
convective solvent flow, 929
crosslinking agent, 1588
crystal structure, 1549
crystallinity, 1363
cutaneous and percutaneous absorption, local anesthetic, 1593
cyclodextrin, equilibrium model, 1698
cyclodextrins, 1174, 1443
cyclosporin, intestinal absorption, 1458

- cyclosporine, food effect, 151
cyclosporine, pharmacokinetics, 301
cytoprotection, 77
- D-methionine absorption, 1771
dalvastatin, 165
deamidation, human insulin, 784
decanoic acid, pharmacokinetics, 388
degradation kinetics, 1712
dermal sampling, 1631
detirelix, pharmacokinetics, 1056
detirelix, pulmonary delivery, 1048
deuterium, drug delivery, 1069
dichlorophenyl-bis-triazolylpropanol, 951
diclofenac, 1689
diclofenac sodium, pharmacokinetics, 698
dielectric method, 585
differential scanning calorimetry, 1023
diffusion coefficient, alcohols, 561
dihydroergotamine, intranasal delivery, 1530
dihydroergotamine, pharmacokinetics, 1530
dipyridamole, elderly, 136
direct tabletting, 478
dopamine reuptake site, 407
dose-dependent pharmacokinetics, 1190
double-emulsion-evaporation, 1479
doxorubicin, drug delivery, 1180
drug binding, 984
drug delivery, avidin, biotin, 1257
drug delivery, entrapping efficiency, 503
drug dissolution, 979
drug interactions, theophyllin, cimetidine, 945
drug permeation, intestinal epithelium, 1648
drug stability, degradation rate, 777
- EAB 515, distribution, 1223
EC latex coating system, 1474
elastomeric bladders, 984
elderly, drug absorption, 136
electroporation, 687
electroporation, 1834
emulsifiable glass, 1301
enoxacin, 1424
enzyme kinetics, 921
epidermal growth factor, 1712
ethyl icosapentate, 1077
ethylcellulose, film coating, 1474
eutectic melting, 1098
extent of absorption, 715
extrusion-spheronization process, 355
- Fc receptor, 518
felodipine ER, 1093
fibrinogen receptor antagonist, 426
fibroblast growth factor, HPLC, 485
film coating, 882
FK 506, HPLC, 844
FK 506, in vitro metabolism, 844
FK-480, optical isomerization, 1704
flow through diffusion cell, mathematical model, 595
fluconazole pharmacokinetics, rats, 961
flumequine, bioavailability, 117
fluorescein isothiocyanate-labeled dextrans, 83
fluoromisonidazole, 466
follicular deposition, 1419
freeze drying, 1023
freeze-drying, 995
- G-CSF, intratracheal instillation, 1101
gamma radiation sterilization, 1485
gastric epithelium, 77
gastric pH, pigs, 592
gemfibrozil, 1755
gene delivery, 1731
- glass transition temperature, 471
glycerolipidic prodrugs, 1082
glycine conjugates, 1829
guanidine derivatives, 1211
- H₁-antagonist, 975, 1516
heart failure, experimental, rats, 1726
hepatic cirrhosis, 772
herpes simplex virus-1, 1035
hexadecylphosphocholine, 589
hot-stage microscopy, 600
HSA, ELISA, 365
human serum albumin, nanospheres, 1588
human skin, 1356
hydrodynamic pore theory, 654
hydrogen bonding potential, 412
hydrophilic matrix tablets, 1093
hydroxymethylglutaryl coenzyme A reductase inhibitor, 165
hydroxypropyl methylcellulose acetate succinate, 1563
hydroxypropyl- β -cyclodextrin, 90
hydroxypropylmethyl cellulose (HPMC), release mechanism, 1379
hydroxypropylmethylcellulose, 1663
hydroxyzine, 295
hypoxic tumor, 466
- ibuprofen, 1069
ibuprofen, enantiomers, pharmacokinetics, 824
ibuprofen, sustained release, 575
immunization, single shot, 2
immunosuppression, 704, 848
impedance spectroscopy, 1356
in vitro/in vivo correlation, 800
in vitro/in vivo skin penetration, 185
in vivo/in vitro blood brain barrier transport, 305
indocyanine green, pharmacokinetics, 1511
inhalation powder, 1320
insulin degradation, 1496
insulin fragments, carrier for peptides, 1681
insulin like growth factor, colon, 226
insulin, absorption, 1174
insulin, acyl derivatives, 1115
insulin, intranasal administration, 1623
insulin, lyophilization, aggregation, 12
insulin, pharmacokinetic equivalence, 1505
interactive mixtures, 1558
interfacial transfer, 1325
interleukin 11, 72
interleukin-4, precipitation, 1492
interleukin-7, 633
interspecies scaling, 945
intestinal permeability, 1654
intestinal permeability enhancement, 1132
intestinal transport, 1148
iontophoresis, 929, 1000
iontophoresis, model peptide, 1296
iontophoresis, octreotide, 1742
iontophoresis, pathway, 251
iontophoresis, skin alteration, recovery, 687
iontophoretic drug delivery, 251
iso-aspartate, detection, 936
isolated perfused heart, 1820
isoprinosine, 181
- jet nebulizers, 491
- keratinocyte growth factor, 1582
ketoprofen, pharmacokinetics, 1669
ketoprofen-omeprazole, 1669
kinetics, denaturation, 1721
- L-693,612, nonlinear pharmacokinetics, 438
L-703,014, pharmacokinetics, pharmacodynamics, 426
L-methionine absorption, 1771
laminar flow, 1288

- latex, infrared spectroscopy, 674
 latex, isotherm, 680
 leuprorelin, three month depot microspheres, 1143, 1199
 levodopa, permeability, 1540
 levodopa, pharmacokinetics, 549
 LHRH, iontophoresis, 1809
 lipolysis, effects of cholesterol, 1283
 lipophilic basic drugs, 1516
 liposomes, 1593
 liposomes, enhanced hepatic uptake, 402
 liquid crystals, 1352
 long circulating liposome, 1180
 loracarbef, transcellular transport, 1405
 lymph-blood partition ratio, 508
 lymphopoietic activity, 633
 lyophilization, 889

 matrix drug release, 575
 MDCK epithelial cells, 1250
 medium-chain glycerides, 1385
 membrane diffusion prediction, 257
 membrane fluidity, 288
 menthol- β -D-glucuronide, 1707
 mepitiostane, 508
 metabolism, first pass, 1524
 metal cations, 917
 metered dose inhalers, 580, 604
 methotrexate, microdialysis, 684
 methotrexate, transdermal absorption, 684
 methylphenidate enantiomers, stereospecific distribution, 407
 methylprednisolone, 848
 metkephamid, 528
 metkephamid, bioavailability, 1640
 metoprolol, transdermal delivery, 1657
 metronidazole, controlled release, 1605
 Michaelis-Menten kinetics, 545
 microbial and mammalian metabolism, 990
 microcalorimetry, pharmaceutical applications, 777
 microdialysis, sampling, 1631
 microdialysis, protein binding, 835
 microencapsulation, 478, 1479, 1568
 microspheres, coating, 1569
 microwave vacuum drying, 728
 middle ear antimicrobial, pharmacokinetics, 855
 misazolam, 921
 misoprostol, 1652
 mivacurium, 772
 mixed fluorocarbon/hydrocarbons, 122
 mobile order theory, 201
 moisture analysis, 728
 moisture sorption on storage, 1233
 monoclonal antibodies, protein stability, 624
 Monte Carlo simulation, 1330
 mucoadhesion, latexes, 674
 mucociliary transport, 1785
 mucus gel thickness, 794
 multiple administration routes, 1524

 N-methyl-1-deoxynojirimycin, 144
 nafamostat, 1244
 nanoparticles, 1270
 nanoparticles, uptake mesangial cells, 1160
 nasal delivery, peptides, 1698
 neurotoxicity, 1519
 niacinamide, molecular complex, 398
 nicorandil, 1190
 nifedipine, 1766
 nitroglycerin, pharmacodynamic modeling, 816
 NM Win, 709
 non-ionic detergent, 1501
 nonlinear mixed effect model, 545
 NONMEM, 709
 norfloxacin, solubility, 522
 noverapamil, stereoselective metabolism, 1815

 O⁶-benzylguanine, degradation, 1060
 octreotide, iontophoresis, 1742
 octreotide, somatostatin analogue, 442
 octreotide, transport, 442
 ointment, rheology, 875
 oleic acid, 377, 513
 oligodeonucleotides, 1371
 oligodeoxynucleotides, antisense, 455
 ondansetron, 156
 oral β -lactam, transcellular transport, 1405
 otitis media models, 855

 p-aminohippurate, 1829
 paracetamol, controlled release, 384
 penetration enhancement, 288
 penetration enhancer, 809
 pentoxifylline, controlled drug release, 351
 pentylene tetrazol, 536
 peptidase inhibitors, 1617
 peptide degradation, 901
 peptide degradation, chemical pathways, 751
 peptide delivery, 747
 peptide drug, nasal absorption, 278
 peptide flux, 1296
 peptides, 1082, 1352
 peptides, oral absorption, 528
 percutaneous absorption, drugs, 654
 percutaneous absorption, retinol, 1155
 percutaneous absorption, vehicles, 1396
 permeability enhancement, 1501
 Peyer's patches, absorption, 361
 pH-dependent carrier-mediated transport, 30
 phagocytosis, liposome, 518
 pharmaceutical scientist, 171
 pharmacodynamic model, 128
 pharmacodynamic modeling, nitroglycerin, 816
 pharmacodynamic system analysis, 1825
 phenobarbital overdose, 318
 phenobarbital, detoxification, charcoal, 318
 phenobarbital, pharmacodynamics, 536
 phenobarbital, pharmacokinetics, 1204
 photoirradiation, 1077
 phthaloyl glycine, 1429
 pilocarpine, nanoparticle delivery system, 1435
 pilocarpine, pharmacokinetics, 1435
 plasma bioconversion, 237
 PMEA, prodrug, oral bioavailability, 835
 poly(alkylcyanoacrylate), nanoparticles, 869
 poly(ϵ -caprolactone)accelerated degradation, 1030
 poly(lactide)-poly(ethylene glycol) copolymers, 1800
 poly(lactide-co-glycolide), microspheres, 1009
 poly-(vinylpyrrolidone), 624
 polydimethylsiloxane glass beads, 503
 polyethylene glycol, drug delivery, 1016
 polyhedral boron compounds, FTRI, 723
 polyisobutylcyanoacrylate nanoparticles, 585
 polyisohexylcyanoacrylate nanoparticles, 1371
 polymeric drug carrier, 1270
 polypeptides, absorption, 361
 polypeptides, pulmonary absorption, 221
 polystyrene nanospheres, 1800
 prednisolone farnesylate, metabolism, 393
 prednisolone, controlled release, 272
 prednisolone, inflammation, 541
 prednisolone, pharmacokinetics, 541
 pressure sensitive adhesive, 104
 probenecid, 181
 prodrug, antiarthritic agent, 345
 propranolol, accumulation kinetics, 420
 propylthiouracil, sustained release, 1663
 protease inhibitor, 1239
 protease inhibitors, 1496
 protein analysis, 1492
 protein binding, 90

- protein binding, microdialysis, 835
protein degradation, 784
protein drugs, denaturation, 1721
protein phosphatase, colorimetric assay, 759
protein stability, 485, 995, 1004
protein, poly(L-lactide) microspheres, 337
pulmonary absorption, 1121
pulmonary deposition, 1320
pulsatile release type wax matrix tablets, 351

quality control, 556
quinaldine red, 566
quinidine, capillary permeability, 1820

ranitidine, 1519
ranitidine, intestinal uptake, 1599
receptor-mediated endocytosis, 1211
receptor-mediated endocytosis, 1731
receptor-mediated transport, 1681
recombinant human IL-11 degradation, 72
recombinant human transforming growth factor beta, 213
recombinant methionyl human growth hormone, 12
rectal absorption, 1401
renin inhibitor, 1443
renin inhibitor, transport mechanism, 1448
retinoid alcohols, 1064
retinoid lactones, 1064
retinoids, dermatology, 192
retinyl palmitate, metabolism, 1155
reversed micelles, 337
RMP-7, plasma metabolism, 1673

salicylic acid, distribution kinetics, 1337
salmon calcitonin, 1239
salmonella typhimurium, 38
salt formation, 1550
self-emulsification, 1301
serotonin type 3 inhibitor, 156
shelf-life, 1462
side-by-side diffusion cells, 1325
skin diffusion model, 377
skin metabolism, 393
skin penetration, *in vitro*, 1747
skin permeability, 1306
slow release formulation, 733
sodium lauryl sulfate, 1042, 1414
solubility predictions, 201
spherical crystallization, 478
spiramycins, 458
stability testing, 1462
stratum corneum, lipid organization, 1414
streptococcus pneumonia, otitis media, 860

succinimide, detection, 936
sucrose, crystallization, amorphous, 1166
supercritical fluid extraction, 1545
superoxide dismutase, 1244
suppression of pituitary-gonadal axis, 1199
swelling, release mechanism, 1379
synovial drug distribution, 1689

tablets, tensile strength, 1233
taxol, liposomes, 889
taxol, mixed micelles, 206
taxol, parenteral administration, 206
tetracosactide (ACTH₁₋₂₄), 278
theophylline, controlled release, 499
thermal analysis, 54, 1467
thermal analysis, human stratum corneum, 1612
thermal optical analysis, 875
thermoelectric cooling, 1098
time-variant pharmacodynamics, 1825
timolol, ocular drug delivery, 1270
tirilazad mesylate, pharmacokinetics, 341
tissue binding, 1337
tissue-type plasminogen activator, 12
total body irradiation, immunosuppression, 704
transdermal delivery, 1000, 1306
transdermal delivery, acyclovir, 1035
transdermal drug delivery, 1809
transdermal drug delivery, 1834
transdermal therapeutic system, 104
transepithelial transport, 1250
TRH metabolism, 1575
tritium isotopes and carbon-14, human ADME studies, 925

urokinase, thermal stability, 1004

valproic acid metabolism, 571
vasopressin transport, 1617
verapamil, stereoselective metabolism, 1815
videomicroscopy, 600
viscoelastic property, 1785
vitrification, 54

water penetration rate, 733
water-in-oil microemulsions, 1385
wound healing, 65
wound healing, 213

x-ray diffraction, 1467

zidovudine, 181
zidovudine, cerebrospinal fluid, 312