

Subject Index to Volume 21 (2004)

- 1,4-dihydropyridine, 428
 1,4-dihydropyridines, 1750
 2,3-benzodiazepines, 317
 2-*tert*-butyl-4-methoxy-phenol (BHA), 185
 3,3'-diethyloxadicyanone iodide, 93
 5-ALA, 1680
 5-ALA ester derivatives, 2247
 5-aminolevulinic acid, 2247
 5-fluorouracil, 1558
- A**
- A431 cells, 458
 A549 and Calu-3, 524
 α_1 -acid glycoprotein, 1648
 ABC proteins, 719
 ABCB1, 904
 Absorption, 68, 443, 641, 1160, 1398, 1457, 1567, 1862
 Absorption bioavailability, 1405
 Absorption kinetics, 1345
 ABT-378, 1622
 Activator protein-1(AP-1), 649
 Active secretion, 635
 Acute renal failure, 330
 Adenovirus, 1895
 Adhesion, 1826
 Adhesive mixtures, 2158, 2167
 Adjuvants, 1519
 Advanced glycation end products, 1079
 Aerosol, 1607, 1662, 2213
 Aerosol dispersion, 1200, 1207
 AERx, 1776
 AFM, 1591
 Aggregation, 897, 1274, 2369
 Aging, 867
 Air classifier, 2158, 2167
 Albumin binding, 1498
 Albumin microspheres, 1445
 Alkyl polyglycosides, 2347
 AM188, 982
 Amino acid esters, 1303
 Amino acid transporter ATB^{0,+}, 1303
 Aminolevulinic acid, 1871
 Aminolevulinic acid uptake, 2253
 Amorphous, 136, 149, 185, 1167, 1440, 1554
 Amorphous systems, 2025, 2031
 Amorphous trehalose, 867
 AMPA antagonists, 317
 Amphiphilic diblock copolymers, 1489
 Amphiphilogs, 1852
 Amphotericin B, 2336
 Amphotericin B lipid complex, 2336
 Amyloid- β , 1094
 Angiogenesis, 1880
 Animal models, 897
 Anti-angiogenic activities, 2112
 Anticancer action, 2307
 Anticancer agent, 2001
 Anticancer drug carriers, 1985
 Antifungal activity, 1564
 Antigen delivery, 271
 Antigen-presenting cells, 1018, 1240
 Antigens and DNA vaccines, 127
 Antinociception, 1867
 Antioxidant activity, 1924
 Antioxidants, 2377
 Antisense oligodeoxynucleotide, 458
 Antiviral, 914, 2079
 Antiviral nucleoside analog, 982
 Apoptosis, 271, 2307
 Aptamer, 2234
 Arteriogenesis, 683
 Arthrotropism, 1741
 Artificial lipoprotein, 675
 Artificial membrane, 749
 Artificial neural network, 1692, 2360
 Ascorbic acid, 2377
Aspergillus fumigatus, 1564
 Asthma, 1539
 Astrocytic factors, 761
 Atherosclerosis, 1531
 Atom transfer radical polymerization, 160, 1471
 Atomic Force Microscope (AFM), 1826
 Atomic force microscopy, 492
 Atomic force microscopy (AFM), 953
 Atomization, 372
 Atorvastatin, 1686
 ATPase activity, 2226
 Automation, 177
 Average bioequivalence, 1331
- B**
- β -blockers, 1103
 β -gal expression, 1656
 B-type natriuretic peptide, 2105
 Baicalein, 2120
 Baicalin, 2120
 Basic drugs, 2327
 BCH, 1257
 BCH transfer, 1257
 BCRP, 1263
 BCRP/ABCG2, 1895
 Berries, 1904
 Bicistronic vector, 15
Bidens pilosa Linn., 2112
 Bile salts, 55, 1505
 Biliary excretion, 467, 742, 1294
 Binding mode, 2270
 Binding site, 1648
 Bioactive excipients, 2320
 Bioadhesive, 1871
 Bioanalysis, 26
 Bioavailability, 781, 1127, 1457, 1797
 Biocompatibility, 1362
 Biodegradable, 50, 827
 Biodegradable and biocompatible polymers, 354
 Biodegradable triblock copolymer, 339
 Biodegradation, 170
 Biodistribution, 476, 1153, 2234
 Bioequivalence, 1539, 1933
 Bioequivalence studies, 1331
 Biomaterial, 1362
 Biopharmaceutical classification, 1567
 Biopharmaceutical Classification System (BCS), 293
 Biotransformation, 891, 1146
 Biowaivers, 1567
 Bisphosphonates, 608
 Block copolymer, 1573
 Blood-brain barrier, 756, 1382, 1698, 1993
 Blood compatibility, 1362
 Bone binding, 608
 Bone substitutes, 1790
 Botulinum neurotoxin, 1353
 Brain, 1313
 Breast cancer resistance protein, 2261
 Breast-feeding, 555
 Bsep/Spgp, 467
 Buffering capacity, 365
 Bunazosin, 770
 Buserelin, 1034
 Busulfan, 598
 Busulfan-cyclodextrin complex, 598
- C**
- Caco-2, 278, 293, 819, 1398, 1917, 2320
 Caco-2 cells, 1026, 2085
 Caco-2 monolayer, 749
 Caco-2 monolayers, 2196
 Caco-2 permeability, 1904
 Calcium ion, 1257
 Calorimetry, 1642
 Calu-3 cells, 1034
 Camptothecin, 2001
 Cancer therapy, 354
 Capsule, 144
 Capsules, 793
 Carbopol, 1192
 Carrier residue, 2158
 Cationic copolymers, 160
 Cationic liposomes, 15
 Cationic polymers, 8
 Cationized gelatin, 1109
 Caveolae, 625
 CD4, 2148
 CD-DST, 406
 Celecoxib, 1762, 1797
 Cell adhesion, 1362
 Cell-association, 1917
 Cell culture, 675, 1294
 Cell cycle mediators, 2112
 Cell entry, 2185
 Cell fractionation, 26
 Cell penetrating peptides, 33, 389, 1248
 Cell uptake, 33
 Cellular translocation, 1248
 Cellular uptake, 1257
 Central nervous system, 811
 Cerebral ischemia, 317
 Cerebrospinal fluid, 799
 Cerebrospinal fluid bioavailability, 706
 CF-1 mice, 1867
 Characterization, 1762, 2137
 Charged liposomes, 447
 Chemopreventive compounds, 649
 Chemosensitivity, 406
 Chemosensitizer, 2058
 Children, 2064
 Chitosan, 344, 671, 803, 1790, 2340
 Chitosan glutamate, 43
 Chloroquine, 2207
 Cholesterol, 625
 Cholesterol ester, 1834
 Choroid plexus, 1680
 Circular dichroism, 1353
 C-jun N-terminal kinase (JNK), 649
 CLSM, 1818
 Coating, 882
 Cohesion, 1826
 Colloidal drug carrier, 1834
 Colloidal emulsion, 1834
 Colonic epithelium, 447
 Complex, 413
 Complex coacervation, 2354
 Compression-coated tablets, 1177
 Computational, 1708
 Computational docking, 2270
 Confocal laser scanning microscopy, 851, 1026
 Congestive heart failure, 2105
 Conjugation, 2234
 Conjunctival cell toxicity, 803
 Constitutive model, 1192
 Contact geometry, 953
 Controlled precipitation, 2048
 Controlled release, 484, 500, 875, 882, 1109, 1177, 1811
 Convective diffusion, 2300
 Corticosteroid, 1607, 2279
 Cosolvent, 237
 COX-2, 1797
 Cream, 1770
 Creatinine, 976
 Cremophor RH40, 1413
 Cromolyn sodium, 2196
 Cross-reactivity, 1480
 Cross species comparison, 1670
 Cryptococcosis, 2207
 Crystalline, 185
 Crystallization, 149, 867
 Cyclic voltammetry, 428
 Cyclin D1, 649
 Cyclodextrins, 625, 1127
 Cysteine HCl, 108
 Cytochrome P450, 1631, 2095
 Cytochrome P450 2C19, 2270
 Cytokine, 2072
 Cytotoxicity, 344, 1009, 1026, 1362, 1637
- D**
- DdI, 300
 Deamidation, 2369
 Deferoxamine, 761
 Degarelix, 574
 Degradation, 1223, 2340
 Degree of deacetylation, 344
 Dehydration, 1167
 Dendrimers, 2185

- Depth-resolved, 851
 Dermatitis, 108
 Deslorelin, 524, 1034, 1119
 Dextran prodrugs, 1000
 Diabetes, 947, 1079
 Diarrhea, 420
 Diblock copolymers, 962
 Diblock polymers, 1581
 Dideoxynucleosides, 300
 Differential scanning calorimetry, 1353
 Differential scanning calorimetry (DSC), 1167, 2025
 Diffusion cell experiments, 940
 Diffusion process, 2384
 Digoxin, 231
 Dimethyl- β -cyclodextrin, 2009
 Diphtheria toxoid, 515
 Discrete incremental clustering, 2360
 Dispersion model, 785
 Dispersion, 1405, 1413
 Dissolution, 149, 245, 254, 793, 2048, 2300
 Dissolution media, 144
 Dissolution profile, 585
 Dissolution rate, 2300
 Dissolution stability, 617
 Dividable-OSDR, 1177
 DNA, 2340
 DNA vaccine, 927
 Domain, 1924
 Dopamine receptor agonist, 844
 Dose, 1567, 2213
 Dose-response modeling, 1463
 Dose/solubility ratio, 1567
 Dosing protocol, 114
 Doxorubicin, 101, 394
 DPI, 1591, 1826
 Drag force, 1826
 Drug absorption, 245, 254, 635, 819
 Drug carriers, 389
 Drug delivery, 1, 389, 692, 1153, 1184, 1303, 1732, 1741, 1811, 1880
 Drug delivery systems, 1783
 Drug discovery, 1758
 Drug disposition, 719, 1648
 Drug fraction absorbed, 1233
 Drug interaction, 1263, 2095
 Drug interactions, 1686
 Drug partitioning, 26
 Drug resistance, 904
 Drug screening, 756
 Drug targeting, 761
 Drug transport, 26, 811, 1294
 Drug transport models, 1294
 Drug-alone formulations, 1207
 Drug-delivery, 827
 Drug-drug interactions, 1622
 Dry powder inhaler with residence time, 2158
 Dry powder inhalers, 492, 2167
 DSC, 2354
 Dual microdispenser system, 1419
 Dual-release kinetics, 394
 Dubin-Johnson syndrome, 742
 Dynorphin A(1-10) metabolism, 1450
 Dynorphin A(1-13), 1450
- E**
 E-cadherin, 2085
 Efflux ratio, 1489
- EGIS-9879, 317
 Eisai hyperbilirubinemic rats, 1055
 Electro-osmosis, 844
 Electro-repulsion, 844
 Electron density, 598
 Electroosmosis, 1805
 Electrospinning, 372
 Emulsification-diffusion, 1428
 Emulsion, 671, 1573
 Emulsions, 1519, 1692
 Enalapril maleate, 2127
 End-product inhibition, 1642
 Endocytosis, 33, 641, 2253
 Endothelial cells, 756
 Enoxaparin, 1127, 2009
 Enterohepatic circulation, 1055
 Enthalpy relaxation, 1762
 Enzyme activity, 1924
 Enzyme inhibition study, 1450
 Enzyme kinetics, 1642
 Epidermal growth factor receptor, 458
 Epidermal powder immunization, 515
 Epithelial metabolism, 1248
 Epithelial permeability, 1248
 Epitope tagging, 1970
 EPR, 1750
 Equilibrium, 1758
 Erectile dysfunction, 1463
 Ester drugs, 996
 Esterase-like activity, 285
 Ethanol, 996
 Eudragit, 136
 Eudragit E, 2127
Ex vivo spinal meningeal permeability, 706
 Excipient, 50
 Excipients, 201, 420
 Experimental colitis, 447
 Extensive liver fibrosis, 2072
 Eye, 770
- F**
 F-actin, 1026
 Factor IX, 1229
 Fate of vaccine molecule, 127
 Fatty acid oxidation, 1531
 Fenofibrate, 1184
 Fetus, 2279
 Fexofenadine, 1398
 Fibrates, 1531
 Fibril toxicity, 1274
 Fibroblast, 1637
 First-pass liver metabolism, 436
 Flavonoids, 1263
 Flow chamber assay, 920
 Flow-through dissolution, 2300
 Fluconazole, 2207
 Fluid-bed drying, 860
 Fluorescein, 635
 Fluorescein isothiocyanate, 832
 Fluorescence, 1505, 1539, 1818
 Fluorescence spectroscopy, 2354
 Flux, 940
 Folate receptor, 2153
 Food supplements herbs, 1904
 Food-drug interactions, 1904
 Forced degradation, 1708
 Foreign particles, 2137
 Foreign particulates, 2137
 Formulation, 191, 1374, 1591
 Freeze drying, 191, 1167, 1615
- FTIR, 2354
 Functional regulation, 1886
 Fungizone, 1564
- G**
 GMR, 1933
 Galactosylated emulsions, 932
 Gamma radiosterilization, 1103
 Gamma scintigraphy, 443
 Gastrointestinal model, 585
 GC-MS, 1750
 G-CSF-Tf, 278
 Gelatin, 144, 793
 Gelation temperature, 1852
 Gemcitabine, 406
 Gender differences, 1776
 Gene delivery, 8, 50, 170, 365, 458, 1471, 1662
 Gene expression, 2085
 Gene silencing, 1
 Gene therapy, 927
 Gene transfer, 683
 Genistein, 2095
 Genotype, 324
 GF 120918, 1398
 Glancing angle, 149
 Glass transition, 1554, 1598, 1615, 2025
 Glass transition temperature (T_g), 1167
 Glioma, 1257, 1558
 Glomerular filtration rate, 976
 Glucagon, 1274
 Glucagon-like peptide-1, 827
 Glucose, 1993
 Glucose-lowering activity, 2040
 Glucose niosomes, 101
 Glucuronidation, 989, 2120
 GlySar, 1680
 Glycine, 860
 Glycocalyx, 309
 Glycofurol, 2384
 Glycol chitosan, 101
 Glycoprotein, 1160
 Gonadectomy, 989
 Gp120, 2148
 Granulocyte colony-stimulating factor (G-CSF), 2377
 Growth hormone, 1631
 Growth hormone secretagogue, 996
- H**
 Halofantrine, 1413
 HAV peptide, 2085
 HeLa, 1871
 Heat transfer, 536
 Heat-treated amphotericin B, 1564
Helicobacter pylori, 413
 Hematotoxicity, 567
 Hemophilia B, 1229
 Heparin, 160
 Hepatic clearance, 785
 Hepatic extraction, 1457
 Hepatic transport, 719
 Hepatobiliary, 719
 Hepatocytes, 932, 1294
 Herpesvirus, 914
 Heterobifunctional crosslinkers, 608
- High-resolution crystallography, 598
 High-throughput, 177
 Highly active antiretroviral therapy, 420
 Highly variable drugs, 1933
 HIV, 2148
 HIV protease inhibitor, 436, 1862
 HIV protease inhibitors, 1622
 HMG-CoA, 1686
 hOCT2, 976
 Homology modeling, 2270
 Hormonal regulation, 969, 1631
 HPLC, 1539
 HPLC-UV, 1103
 HPMA copolymers, 1153
 HP β CD, 1119
 HT-29, 891
 HT-29 cell, 649
 Human, 799
 Human bile, 1670
 Human calcitonin, 33 1248
 Human colorectal adenocarcinomas, 406
 Human endothelial cells, 1009
 Human growth hormone, 1374
 Human islets, 15
 Human kidney, 61
 Human parathyroid hormone (hPTH), 2377
 Human serum albumin, 1924
 Human skin, 1146
 Human umbilical vein endothelium cells (HUVEC), 2112
 Human urokinase plasminogen activator, 1656
 Humans, 231
 Humidity, 953
 Hyaluronan, 2040
 Hyaluronan-insulin complex, 2040
 Hyaluronidase, 309
 Hydrate, 149, 382
 Hydrofluoroalkane, 1607
 Hydrogel, 827, 832
 Hydrophilic cyclodextrin, 2369
 Hydrophilic drug, 749
 Hydrophobic interaction, 2369
 Hydroxyapatite affinity, 608
 Hyperbranched polymers, 2185
 Hyperthyroidism, 969
 Hypoxia, 736
 Hypromellose, 793
- I**
 Ibuprofen, 2185
 Idiotype peptide, 1480
 IgG, 127
 IL-10 receptor, 2072
 IL-12, 1240
 Immune response, 121, 671
 Immunogenicity, 897
 Immunoglobulin receptor, 1079
 Immunohistochemical staining, 2072
 Immunohistochemistry, 15
In silico, 237
In situ brain perfusion, 1382
In situ gelation, 454
In vitro, 756
In vitro blood-brain barrier, 761
In vitro studies, 1137
In vivo ESR, 2017

- In vitro/in vivo* correlation, 484
In vivo studies, 1137
 Indinavir, 811
 Indirect response, 770
 Indocyanine green, 1000
 Induction, 1284
 Inert matrix tablets, 875
 Infant exposure, 555
 Infants, 2064
 Inflammation, 447, 1531, 2219
 Influence of fine lactose on dispersion, 492
 Injectable drug carrier, 1783
 Ink-jet technology, 1419
 Instrumented dog study, 436
 Insulin, 309, 1445, 1545, 2040
 Insulin detemir, 1498
 Insulin formulation, 2040
 Insulin pharmacokinetics, 1498
 Insulin release, 339
 Insulin self-association, 1498
 Integrin, 1880
 Interaction parameter, 1428
 Interindividual difference, 1895
 Interleukin-10, 838
 Intestinal absorption, 300, 969
 Intestinal brush border membrane, 55, 1233
 Intestinal excretion, 2120
 Intestinal secretion, 330
 Intestine, 838, 1862
 Intracellular drug release, 1985
 Intradermal route, 121
 Intraepithelial, 1871
 Intranasal, 671, 799
 Intraocular pressure, 770
 Intraperitoneal, 1797
 Intrathecal and epidural disposition, 706
 Intratracheal, 1119
 Intratracheal instillation, 127
 Intratumoral drug delivery, 394
 Intravenous, 799
 Intrinsic clearance, 785, 1331
 Intrinsic dissolution rate, 2300
 Inverse gas chromatography, 1440, 1554
 Iontophoresis, 1214, 1390, 1805, 2293
 Iontophoretic driving force, 1974
 Iron, 761
 Ischemia-reperfusion, 1000
 ISCOM, 271
 Isolated perfused rat kidney, 982
 Isolated perfused rat liver, 1000
 Isothermal titration calorimetry, 2196
 Isothiocyanates, 2261
- J**
- JEG-3 cells, 692
 Jet-milling, 1200
- K**
- Keratinocyte, 1637
 Ketoprofen, 989
 Kinetic rate constants, 1750
 Kinetics, 1505
 Knockout mouse, 1680
- L**
- Lactose, 1591
 Lactose-blend formulations, 1207
- Large-porous particles, 1119
 Laser diffraction analysis, 2167
 LC/ESI-MS, 2347
 LC-MS, 1670
 LC-MS/MS, 1670
 LC/MS/MS, 1094
 LDL receptor, 1257
 Lecithin, 1374, 1413
 Lectin, 1917
 LHRH-receptor antisense oligonucleotide, 1034
 Light scattering, 1087
 Lipid-based drug delivery, 245, 254, 1405
 Lipid digestion, 245, 254, 1405
 Lipid nanocapsules, 1783
 Lipid nanoparticles, 1834, 2153
 Lipid solubility, 940
 Lipid transfer protein I, 2336
 Lipophilic drug, 932
 Lipophilic membrane, 1345
 Lipophilic prodrug, 2153
 Lipophilicity, 844
 Lipopolysaccharide, 761
 Lipoproteins, 1531, 2320, 2336
 Liposome, 1018, 1505, 1880
 Liposomes, 2017, 2207, 2327
 Lithium, 1214
 Liver sinusoidal endothelial cells, 1223
 Local anesthetics, 706
 Loewe additivity, 1263
 Long-circulating colloids, 1783
 Long-term stability, 2340
 Loperamide, 1867
 Lopinavir, 1622
 Low bioavailability, 436
 Low molecular weight heparins, 2009
 Low temperature, 1257
 Low-molecular-weight heparin, 1127
 LPDS, 1257
 LS180, 1284
 Lumiracoxib, 443
 Lungs, proliferation assay, 127
 Lymphatic transport, 1413
 Lyophilization, 191, 536
 Lysine-derivative surfactants, 1637
 Lysostaphin, 1770
- M**
- M cell-targeting ligands, 695
 Macromolecular drugs, 309
 Macromolecular therapy, 1741
 Macromolecule, 1741
 Macrophage uptake, 524
 Magnetic resonance imaging (MRI), 1741
 Mannan, 1018
 Marine alkaloid, 2307
 Mass spectrometry, 428, 1670, 1708, 2347
 M6G, 1698
 MCF-7 cells, 2253
 MDCK, 33, 1284, 1970
 MDR reversal, 1263
 MDRI, 406, 904
 MDRI, 1284
 MDRI-MDCK, 1284
 MEK, 1670
 Mdr1a/1b, 467
- Mean arterial pressure, 114
 Melanoma, 476
 Melatonin, 799
 Membrane transport, 692, 2261
 Membrane-coated fiber, 1345
 Mesenteric lymph, 2320
 Metabolic syndrome, 1531
 Metabolism, 1670, 1993
 Metabolites, 1331
 Metered dose inhalers, 1607, 2213
 Methionine oxidation, 2377
 Method of preparation, 1167
 Methotrexate, 1985
 Methylprednisolone, 1000
 Michaelis-Menten kinetics, 2226
 Microarray, 777
 Microarrays, 2085
 Microcrystalline cellulose, 2360
 Microdialysis, 706, 1698
 Microelectromechanical systems (MEMS), 947
 Microemulsion, 261
 Microencapsulation, 500, 1419
 Microfabrication, 947
 Microgel, 1192
 Micronized, 953
 Microparticle, 2148
 Microparticles, 121, 920, 1519, 2048, 2384
 Microscale, 1758
 Microspheres, 339, 1109, 1558
 Miniature, 1758
 Miscibility, 1598
 Misoprostol, 832
 Mitomycin C, 406
 Mixer torque rheometry, 2360
 Mn, 2175
 MnEDTA, 2175
 Mobile, 185
 Mode of detachment, 2167
 Model, 231
 Modeling, 114, 1698
 Modulation, 761
 Moisture, 617
 Moisture-dissolution correlation, 617
 Molecular dispersion, 1762
 Molecular mobility, 2031
 Molecular weight, 344
 Monocarboxylates, 1993
 Monoclonal anti-LDL receptor antibody, 1257
 Montelukast, 1539
 Morphine-6-glucuronide, 1698
 Mouse, 819
 Mouthpiece design, 1776
 MRI, 1558, 2175
 MRP1, 406, 2226
 Mrp2, 467
 MRP2, 406, 625, 2120, 2226
 MRP2/ABCC2, 742
 Mucoadhesion, 413, 447
 Mucoadhesive polymer, 1770
 Mucoadhesive polymers, 803
 Mucoadhesives, 1160
 Mucosal delivery, 1519
 Mucous, 309
 Multidrug resistance, 1382
 Multidrug resistance-associated protein (MRP), 635
 Multivariate data analysis, 1047
- N**
- N-acetylated chitosan, 838
 N-acetyl-L-cysteine, 761
- N-acetyltransferase 2, 324
 Naltrexone, 1146
 Nanoemulsion, 675, 1428
 Nanoparticle, 671
 Nanoparticle-mediated gene transfer, 1656
 Nanoparticles, 136, 592, 803, 927, 1428, 1818, 2048
 Nanoprecipitation, 1428
 Nanospheres, 136
 Narrow size distributions, 1200, 1207
 Nasal absorption, 1127
 Nasal, 1770
 Natural chemopreventive agents, 661
 Near-infrared spectroscopy, 860
 Necrosis, 271
 Needle-free immunization, 1519
 Nephropathy, 1079
 NESP, 507
 Neurological diseases, 1313
 Neuroprotection, 317
 Nitroglycerin tolerance, 114
 NK4, 1109
 NMR, 2196
 Non-invasive glucose monitoring, 1805
 Non-viral gene therapy, 1229
 Noncompartmental analysis, 1698
 Nonionic surfactants, 1852
 Nonlinear renal clearance, 781
 NONMEM, 574, 1698, 2064
 Nonsteroidal anti-inflammatory drug, 989
 Nontoxic, 50
 Nonviral gene delivery, 354
 Nonviral gene transfer, 1009
 Nonviral vectors, 8
 Novel erythropoiesis-stimulating protein (NESP), 500
 Nuclear factor kappa B (NF- κ B), 661
 Nuclear magnetic resonance, 400
 Nuclear magnetic resonance (NMR), 185
 Nucleation below T_g , 867
 Nucleic acids, 1
 Nursing, 555
- O**
- Occludin, 43
 Octanol, 2327
 Ocular drug delivery, 641, 803, 1160, 2175
 ODN, 2219
 Oil-in-water emulsions, 2253
 Oligonucleotides, 2219
 On-line visualization, 851
 Oncology, 1670
 One-step dry-coated tablets, 1177
 Ophthalmic, 641
 Optimization, 1692
 Oral DNA delivery, 838
 Oral drug permeability, 1233
 Oral formulations, 201, 585
 Oral pharmacokinetics, 2058
 Oral protein-drug delivery, 278
 Oral vehicle, 2079
 Organelle, 26
 Organic anion transporter, 61, 982
 Organic cation transporter, 976
 Organogel, 454

- Otilonium bromide, 55
Oxidation, 1094, 1708, 2369
- P**
- P-glycoprotein, 330, 625, 756, 811, 819, 1284, 1294, 1313, 1382, 1398, 1489, 1686, 1862, 1867, 2279
P-glycoprotein inhibitors, 261
P-hydroxybenzoic acid, 382
P-nitrophenyl esters, 285
p53, 93, 2307
P-S difference, 1055
PPAR- α L162V polymorphism, 1531
Paclitaxel, 261, 1573, 1692, 2153
Palmitoyl poly-L-lysine, 675
PAMAM dendrimers, 476
Pancreatic cancer, 1109
Pancrelipase, 420
Paracellular permeation, 749
Paracetamol, 585
Parallel tube model, 785
Parenteral formulations, 201
Parkinson's disease, 844
Particle adhesion, 1591
Particle detachment rate, 2158
Particle, 1826
Particle engineering, 372, 2048
Particle self-assembly, 592
Particle size, 1567
Partition coefficient, 1345
Partitioning, 2327
PEG 400, 237, 683
PEGylated, 1692
Pegylated phospholipids, 1573
Pegylation, 1471
Pellet, 882
PepT1, 1970
PEPT1, 969
PEPT2, 1680, 1886
Peptide, 1018
Peptide nanoparticles, 1545
Peptide vaccine, 1480
Percolation theory, 875
Percutaneous absorption, 83
Perfusion, 1862
Permeability, 293, 1567, 2009
Peroxisome proliferator-activated receptor (PPAR)- α , 1531
Peroxynitrite, 1750
Pgp, 2226
Pharmaceutical, 1708
Pharmaceutical gel formulation, 1192
Pharmaceutical gels and emulsions, 1844
Pharmacodynamic, 2079
Pharmacodynamics, 114, 231, 777
Pharmacogenomic modeling, 777
Pharmacokinetic, 2079
Pharmacokinetic/
 pharmacodynamic model, 770
Pharmacokinetic-
 pharmacodynamic modeling, 567
Pharmacokinetics, 231, 261, 555, 777, 996, 1783, 1924, 2064, 2234, 2279
Pharmacoscintigraphy, 793
Phase separation, 1598
Phenotyping, 1867
PHN, 914
Phosphate, 1615
Phospholipids, 625
Photodynamic diagnosis and therapy, 2253
Photodynamic, 1871
Photodynamic therapy, 2247
Physicochemical properties, 1758
Plantacare, 2347
Plasmid DNA, 1223, 1662
Plasticity, 382
PLGA, 1119
PLGA-nanospheres, 1917
PLGA-PEG-PLGA triblock copolymer, 50
Pluronic, 1993, 2226
Poly(D,L-lactide-co-glycolide), 394
Poly(ether ester), 484
Poly(ethylene glycol), 1184
Poly(ethylene glycol);
 biodistribution, 1783
Poly(lactic-co-glycolic acid), 2384
Poly(lactide-co-glycolide)
 (PLGA), 500, 1240
Poly(propyleneimine) dendrimer, 458
Poly(vinyl alcohol), 1428
Poly(ϵ -caprolactone), 1184
Polyacetylenes, 2112
Polyester, 927
Polyethylene vinyl acetate, 1811
Polyethylenimine, 365, 683, 1662
Polyglycerol, 2185
Polyion complex micelles, 160
Polymer, 136, 1362
Polymer blend, 882
Polymeric micelle, 1184
Polymeric micelles, 962, 1489, 1581, 2001
Polymeric microparticles, 641
Polymeric orientation, 1811
Polymeric vesicles, 101
Polymorphism, 860, 904, 1079
Polyol, 2185
Polyplex, 170, 2340
Polysorbate, 2320
Poor gut absorption, 436
Poorly water soluble, 1545
Poorly water-soluble drugs, 962, 1405, 1581
Population pharmacodynamics, 1463
Population pharmacokinetic modeling, 574
Porcine skin, 1390
Porous particles, 524
Post-iontophoretic driving force, 1974
Potato lectin, 1160
Powder formulation, 515
Prediction, 237, 749
Preformulation, 177, 2360
Pregnancy, 2279
Premature neonatal skin, 1390
Probiotics, 585
Process analytical technique (PAT), 1844
Prodrugs, 940, 1146
Prohibitin, 93
Prostate cancer, 476, 574
Protein adsorption, 1362
Protein aggregation, 1087
Protein delivery, 1419
Protein encapsulation, 507
Protein formulation, 1087, 1955
Protein interaction, 1886
Protein stability, 500, 507, 1955, 2354
Protein structure, 897
Protein transduction domain, 389
Protein, 484, 2384
Proteins, 1353
Proton-sponge, 365
Protoporphyrin IX, 2247, 2253
Prolonged action, 1498
Pt(dach)Cl₂, 891
Pulmonary absorption, 2009
Pulmonary drug delivery, 1607, 1776
Pulsatile programmed drug delivery, 1732
Pulsed drug release, 1732
Purification, 1353
- Q**
- QSPkR, 68
QSPR model, 237
Quality control techniques, 2137
Quantitative structure-activity relationships, 1047
Quantitative structure-
 permeation relationships, 83
Quantitative structure-property relationship, 68
Quinolones, 330
- R**
- RTP801, 736
Rabies plasmid DNA, 675
Radical mechanisms, 1103
Radiofrequency ablation, 394
Radiolabeled, 484
Radiolytic yields, 1103
Radiosensitization, 1558
Raman spectroscopy, 1844
Ramatroban, 1055
Rat liver microsomes, 2095
Rat, 799
Rats, 1564
RBF ANN, 68
Reaction pathway, 2127
Real-time PCR, 61
Real-time RT-PCR, 15
Receptor-mediated endocytosis, 761
Recirculatory model, 1055
Recombinant human growth hormone, 2369
Reductase inhibitor, 1686
Regulatory criteria, 1933
Relaxation, 867
Release mechanism, 882
Release mechanisms, 1762
Renal diseases, 61
Renal secretion, 982
Renal tubular secretion, 61
Respirable particles, 1200, 1207
Response surface, 2293
Restenosis, 1079
Retina, 1797
Reverse iontophoresis, 1214
Reversibility, 1127
Reversible association, 1087
RhIL-10, 2072
Rheology, 1192
Rheumatoid arthritis, 324, 1741
Rhodamine 123, 1489
Risk assessment, 555
Ritonavir, 1622
RNA interference, 1
RNase, 1642
Roberts-Sloan equation, 940
- S**
- SALSA, 1094
Salmeterol xinafoate, 492
Salmon calcitonin, 1274
Salting-out, 1428
SANS, 1852
Saponin, 271
Saquinavir, 436, 811
SAXS, 372
Scaled bioequivalence limits, 1933
Scintigraphic imaging, 1153
Scintigraphy, 1776
Secondary drying, 191
Self-assembling, 1581
Self-assembly, 454, 962
Self-microemulsifying drug delivery system (SMEDDS), 261
Serum albumin, 285
Serum albumin fusion, 2105
Sex differences, 989
Sex-steroid hormones, 1284
Shingles, 914
Side effects, 420
Side-by-side diffusion cells, 635
Simulation, 2064
Simulations, 1331
Simvastatin, 1686
siRNA, 1
Site-specific delivery, 443
Skin barrier function, 1390
Skin irritation, 1637
Skin metabolism, 2247
Skin permeability, 83
Skin permeation, 108
Skin release rate constant, 1974
Skin, 947, 1805, 1818
SLC proteins, 719
Slip planes, 382
Small-angle X-ray scattering, 592
Smectic phase, 1834
Smooth muscle cells, 1009
SNPs, 742, 1895
Sodium hyaluronate, 1374
Solid dispersions, 1598, 2025, 2031
Solid lipid nanoparticles, 400, 1662
Solid tumor, 1880
Solid-state interaction, 2127
Solubility parameter, 1428
Solubility, 237, 293, 1758, 2079
Solubilization, 201
Solution enhanced dispersion by supercritical fluid (SEDS), 953
Solvent exchange, 1419
Sonocrystallization, 372
Sonoporesis, 2219
Sp1, 736
Spacers, 2213
Spantide II, 108
Species difference, 285
Specific targeting, 920
Spin diffusion, 400
Spin exchange, 2017

- Spin-lattice relaxation in the rotating frame ($T_{1\rho}$), 400
 Spinline stress, 1811
 Spray drying, 1374
 Spray lyophilization, 507
 Spray-coating, 515
 Spray-drying, 1167, 1200
 Stability, 2001, 2127
 Stable transfection, 1970
 Stacked lamellae, 592
Staphylococcus, 1770
 Steady-state flux, 1974
 Steric stabilization, 1573
 Structure–activity relationship, 285
 Subconjunctival transscleral, 2175
 Subconjunctival, 1797
 Subcutaneous, 2017
 Subcutaneous depot, 574
 Sublimation rate, 536
 Sucralfate, 413
 Sucrose, 1615
 Sulfasalazine, 324
 Supercritical, 524
 Supercritical fluid drying, 1955
 Superdisintegrant, 617
 Superoxide, 428
 Suppression of morphine tolerance, 1450
 Suramin, 2058
 Surface area, 1440
 Surface energy, 1440
 Surface plasmon resonance, 55, 1233
 Surface property, 1362
 Surfactant, 144
 Surfactants, 2347
 Sustained release, 354, 454, 1374
 Synthetic peptide vaccine, 121
 Systemic exposure, 781
- T**
- Tableting, 382
 Tacrine hydrochloride, 2293
 Tadalafil, 1463
 Tamoxifen, 1631, 2095
 Tape stripping, 1390, 1818
 Targeted gene therapy, 8
 Targeting, 932
 TAT, 1662
 Taurine conjugate, 467
 Tbx, 93
 Technetium-99m, 1153
 TEER, 43, 1127
 Teicoplanin, 2064
 Testing, 2137
 Tether length, 608
 Tetracycline, 413
 Tetradecyl- β -maltoside, 2009
 TIR-targeting, 1985
 TGF- β 1, 1790
 Theoretical descriptors, 68
 Therapeutic drug monitoring, 1214
 Therapeutic proteins, 897
 Thermal FTIR, 2127
 Thermal analysis, 1598
 Thermal history, 1167
 Thermally stimulated depolarization current (TSDC), 2025, 2031
 Thermodynamic activation parameters, 2031
 Thermosensitive polymer, 339
 Thixotropy, 1192
 Thyroid hormones, 1631
 Tight junctions, 43, 1127
 Time to achieve steady-state flux, 1974
 Time-resolved, 851
 Tissue compatibility, 1362
 TNF- α , 1240
 Tomato lectin, 1160
 Topical, 914, 2219
 Topical formulations, 1844
 Topical gel, 1192
 Topotecan, 567
 Trans-esterification, 996
 Transcription regulation, 661
 Transcriptional regulation, 736
 Transdermal, 1805
 Transdermal absorption, 1047
 Transdermal delivery, 1137, 2293
 Transdermal drug delivery, 83, 947, 1146, 1390
 Transdermal extraction, 1214
 Transdermal therapeutic system, 1137
 Transepidermal water loss, 1390
 Transepithelial electrical resistance, 2009
 Transepithelial transport, 278
 Transfection agent, 927
 Transfection efficiency, 675, 1009
 Transfection, 15, 1471
 Transferrin, 101
 Transferrin aggregates, 1985
 Transformed Potts-Guy equation, 940
 Transport, 330, 1284
 Transport studies, 1127
 Transporter, 1313, 1886, 1970
 Transporters, 300, 719
 Tray drying, 860
 Trazodone, 177
 Trehalose, 1615
 Trehalose dihydrate, 1167
 Tricalcium phosphate, 1790
 Trichloroacetic acid, 1223
 Tripalmitin, 592
 Tritiated nanoparticles, 476
 Tubing vial, 536
 Tubular secretion, 976
 Tumor marker, 920
 Tumor targeting, 2153
 Tumor vaccine, 1018
 Tumor-bearing rats, 567
 Turbidity, 1087, 1505
 Type 2 diabetes, 827
 Tyrphostin-A8, 761
- U**
- UCN-01, 1648
 Ultrasound diagnostics, 920
 Unfixed full-thickness human skin, 851
 Uptake, 344, 1223
 Uptake rate constant, 1345
 Urinary excretion, 781
 Urine, 832
- V**
- Vaccine, 2148
 Vaccine delivery, 675, 1519, 1732
 Vaccines, 695
 Valganciclovir, 1303
 Vanadium compounds, 1026
 Variants, 1648
 Vascular disease, 1079
 Vascular endothelial growth factor, 736
 Vascular gene therapy, 683
 Vascular gene transfer, 1656
 Vial design, 536
 Vinblastine, 1382
 Viscoelasticity, 1192
 Viscosity, 1852
 Visualization algorithms, 777
- W**
- Water extraction, 1445
 Water solubility, 940
 Water sorption, 867, 1554
 Water-in-triacetin emulsion, 1445
 Weight ratio, 2127
 Well-stirred model, 785
 Wet conductimetric estimation of the percolation threshold, 875
 Wet decantation, 492
 Wet milling technology, 1545
 Wheat germ agglutinin, 1917
 WIN 55,212-2, 1137
 Within-subject variability, 1331
- X**
- X-ray powder diffractometry, 149
 Xenogenic carrier protein, 1480
- Y**
- Yield stress, 1192
- Z**
- ZO-1, 43
 Zoster, 914