

# Journal of Pharmaceutical Sciences – Keyword List

ABC transporter(s)  
Ab initio calculation(s)  
Absorption  
Absorption, Distribution, Metabolism, and Excretion (ADME)  
Absorption enhancer(s)  
Absorption flattening  
Absorption potential  
Absorption spectroscopy  
Active transport  
Activity coefficient(s)  
Adduct(s)  
Adeno-associated virus (AAV)  
Adenoviral vectors  
Adsorption  
Aerosol(s)  
Agglomeration  
Albumin  
Alginate(s)  
Allometry  
Alpha 1-acid glycoprotein  
Alum(s)  
Aluminum hydroxide  
Aluminum phosphate  
Alzheimer's disease  
Amorphism  
Amorphous Solid Dispersion(s) (ASD)  
Analysis  
Analytical biochemistry  
Analytical chemistry  
Analytical ultra-centrifugation  
Animal toxin(s)  
Antibody(s)  
Antibody drug(s)  
Antibody Drug Conjugate(s) (ADC)  
Antiinfective(s)

Antioxidant(s)  
Antisense  
Apoptosis  
Aptamer(s)  
Arachnoid Blood-Brain Barrier (ABBB)  
Arginine  
Artificial intelligence  
ATP-Binding Cassette (ABC) transporter(s)  
Attenuated total reflectance  
Automation  
Autoradiography  
Bacteriophage  
Batch processing  
Bilayer  
Bile acid transporter(s)  
Biliary excretion  
Biliary recycling  
Bioanalysis  
Bioavailability  
Bioceramic(s)  
Biocompatibility  
Biodegradable polymer(s)  
Bioequivalence  
Biofeedback  
Bioinformatics  
Biomarker(s)  
Biomaterial(s)  
Biometric screening  
Biomimetic(s)  
Biopharmaceutical characterization  
Biopharmaceutics classification system (BCS)  
Biophysical model(s)  
Biosimilar(s)  
Biotechnology  
Blood-Arachnoid Barrier (BAB)  
Blood-Brain Barrier (BBB)  
Blood-Cerebrospinal Fluid Barrier (Blood-CSF barrier)  
Blood flow  
Blood-Retinal Barrier (BRB)  
Blood-Spinal Cord Barrier (BSCB)

Breast Cancer Resistance Protein (BCRP)  
Buccal  
Buccal delivery  
Burst release  
Caco-2 cells  
Calorimetry  
Cancer  
Cancer chemoprevention  
Cancer chemotherapy  
Capillary electrophoresis  
Carbon nanotube(s)  
Casting  
Cationic lipid(s)  
Cell biology  
Cell culture  
Cell line(s)  
Central Nervous System (CNS)  
Cerebrospinal fluid  
Chelation  
Chemical stability  
Chemoluminescence  
Chemometrics  
Chirality  
Chitosan  
Choroid plexus  
Chromatin  
Chromatography  
Chronopharmacodynamics  
Chronopharmacokinetics  
Circular dichroism  
Clathrate(s)  
Clearance  
Clinical pharmacokinetics  
Clinical trial(s)  
Clinical trial simulation(s)  
Coacervate(s)  
Coacervation  
Coating  
Co-crystal(s)  
Colloid(s)

Colon  
Colonic drug delivery  
Combinatorial chemistry  
Compaction  
Companion diagnostic(s)  
Compendium  
Complexation  
Compression  
Computational ADME  
Computational biology  
Computer-aided drug design  
Conjugate(s)  
Conjugation  
Contact angle(s)  
Contact lense(s)  
Content uniformity  
Continuous processing  
Controlled delivery  
Controlled release  
Corticosteroid(s)  
Crushing strength  
Crystal defect(s)  
Crystal dynamics  
Crystal engineering  
Crystal growth  
Crystallinity  
Crystallization  
Crystallography  
Crystal shape(s)  
Crystal structure(s)  
Cyclodextrin(s)  
CYP enzyme(s)  
Cytochrome P450 (CYP)  
Database(s)  
Deagglomeration  
Deamidation  
Deep nail concentration(s)  
Degradation product(s)  
Dehydration  
Deliquescence

Dendrimer(s)  
Deoxyribonucleic acid (DNA)  
Desolvation  
Desorption  
Deuterium exchange  
Developability  
Developability screening  
Differential Scanning Calorimetry (DSC)  
Differential scattering  
Diffuse reflectance  
Diffusion  
Disease effect(s)  
Disease state(s)  
Dispersion  
Disposition  
Dissolution  
Dissolution model(s)  
Dissolution rate(s)  
Distributed model(s)  
Distribution  
DNA delivery  
Dose proportionality  
Dose-response  
Double emulsion-solvent evaporation technique(s)  
Drug-combination particle(s)  
Drug delivery system(s)  
Drug design  
Drug-drug interaction(s)  
Drug effect(s)  
Drug-excipient interaction(s)  
Drug-like property(s)  
Drug metabolizing enzyme(s)  
Drug resistance  
Drug standards  
Drug targeting  
Drug transport  
Drying  
Duodenum  
Dynamic simulation(s)  
Efflux pump(s)

Elderly  
Electrolyte(s)  
Electrophoresis  
Electroporation  
Elimination  
Ellipsometry  
Emulsion(s)  
Encapsulation  
Endothelial  
Enzyme(s)  
Enzyme kinetics  
Enzymology  
Epithelial  
Epithelial (drug) delivery  
Epithelial permeability  
Epithelium  
Epitope  
Equilibria  
Excipient(s)  
Exosome(s)  
Extrusion  
Facilitated diffusion  
Facilitated transport  
Factorial design  
Field-Flow Fractionation (FFF)  
Filling  
First-pass metabolism  
Flavin Monooxygenase(s) (FMO)  
Fluid-bed  
Fluorescence lifetime  
Fluorescence spectroscopy  
Foaming  
Follow-on biologic(s)  
Food effect(s)  
Food interaction(s)  
Forced conditions  
Force field  
Formation clearance  
Formulation  
Formulation vehicle

Fourier-Transform Infrared Spectroscopy (FTIR)  
Fragility  
Free energy of interaction(s)  
Free radical(s)  
Freeze-drying  
Gastrointestinal  
Gastrointestinal tract  
Gastrointestinal transit time  
GastroPlus modeling  
Gastroretention  
Gastroretentive drug delivery system(s)  
Gel electrophoresis (2D)  
Gender  
Gene delivery  
Gene therapy  
Genetic polymorphism(s)  
Gene vaccination(s)  
Gene vector(s)  
Genomic(s)  
Genotyping  
Geriatric  
Glass  
Glass transition(s)  
Global Health  
Glomerular filtration  
Glutathione-S-transferase(s) (GST)  
Glycol  
Glycoprotein(s)  
Glycoprotein receptor(s)  
Glycosaminoglycan(s)  
Glycosylation  
Granulation  
Graphene  
Haplotype(s)  
Hardness  
Heparin  
Hepatic clearance  
Hepatic metabolism  
Hepatic transport  
Hepatobiliary disposition

Hepatocyte(s)  
Heterogeneous system(s)  
Hierarchical cluster analysis  
High concentration  
High throughput technology(s)  
HIV/AIDS  
Hormone(s)  
HPLC (high-performance/pressure liquid chromatography)  
Human Liver Microsomes  
Hydrate(s)  
Hydration  
Hydrogel(s)  
Hydrolysis  
Hydrophobic ion pairing  
Hygroscopicity  
IgG antibody(s)  
Ileum  
Image analysis  
Imaging method(s)  
Immune complex(s)  
Immune response(s)  
Immunogenicity  
Immunology  
Immunotherapy  
Inclusion compound(s)  
Individualized drug therapy  
Induction  
Infectious Bowel Disease (IBD)  
Infrared (IR) spectroscopy  
Inhalation  
Inhibition  
Injectable(s)  
Injector(s)  
In silico modeling  
In situ hybridization  
Insulin  
Interaction(s)  
Interactive mixture(s)  
Interspecies (dose) scaling  
Intestinal absorption



Intestinal diffusion  
Intestinal epithelium  
Intestinal metabolism  
Intestinal secretion  
Intestinal transport  
Intestinal transporter(s)  
Intradermal  
Intramuscular  
Inulin  
In Vitro/In Vivo (IVIVC) Correlation(s)  
In vitro model(s)  
Ion-pairing  
Iontophoresis  
Isoelectric Focusing (IEF)  
Isothermal Calorimetry (ITC)  
Isothermal Titration Calorimetry (ITC)  
Isotope exchange  
Jejunum  
Kinetics  
Lactation  
Lattice  
Light scattering (dynamic)  
Light scattering (static)  
Linear Free Energy Relationships (LFERs)  
Lipid(s)  
Lipid-based formulation(s)  
Lipid Nanoparticle(s) (LNP)  
Lipoplex(s)  
Lipoprotein(s)  
Liposome(s)  
Liquid Chromatography (LC)  
Liquid Chromatography-Mass Spectrometry (LC-MS)  
Log Partition Coefficient (s) (Log P/Log PC)  
Long-acting  
Lung drug delivery  
Lung metabolism  
Lymphatic transport  
Lyophilization  
Machine learning  
Macromolecular drug delivery

Macromolecular prodrug(s)  
Mammary secretion  
Mammary transport  
Mass fragmentation  
Mass Spectrometry (MS)  
Materials science  
Mathematical model(s)  
MDCK cells  
Mechanical activation  
Mechanical properties  
Mechanistic modeling  
Membrane binding  
Membrane conductance  
Membrane resistance  
Membrane translocation  
Membrane transport  
Membrane transporter(s)  
Messenger ribonucleic acid(mRNA)  
Metabolic clearance  
Metabolism  
Metabolite kinetics  
Metered dose inhaler(s)  
Micelle(s)  
Microarray(s)  
Microbiome  
Microcalorimetry  
Microcapsule(s)  
Microemulsion(s)  
Microencapsulation  
Microfluidics  
Micromeritics  
Microparticle(s)  
Microprocessor(s)  
Micro-RNA (miRNA)  
Microsome(s)  
Microsphere(s)  
Milling  
Mixing  
Mobility  
Moisture sorption

Molecular diversity  
Molecular dynamics  
Molecular modeling  
Molecular targeting  
Molecular weight  
Monocarboxylic Acid transporter(s) (MCT)  
Monoclonal antibody(s)  
Monolayer(s)  
Monte Carlo Simulation(s)  
Morphology  
Mucoadhesive  
Mucosal delivery  
Mucosal drug delivery  
Mucosal immunization  
Mucosal vaccination  
Multidrug And Toxic compound Extrusion transporter (MATE)  
Multidrug resistance  
Multidrug Resistance-associated protein(s) (MDR)  
Multiparticulate(s)  
Multivariate analysis  
Muscle(s)  
Mutation(s)  
N-acetyltransferase(s) (NAT)  
Nanocapsule(s)  
Nanocomposite(s)  
Nanocomposition(s)  
Nanocrystal(s)  
Nanodrug(s)  
Nanomedicine  
Nanomilling  
Nanoparticle(s)  
Nanosphere(s)  
Nanotechnology  
Nasal absorption  
Nasal drug delivery  
Natural product(s)  
Near-Infrared Spectroscopy (NIRS)  
Neglected disease(s)  
Nephelometry  
Neural network(s)

Non-biologic complex injectable drug(s)  
Nonlinear pharmacokinetics  
Nonlinear regression(s)  
Non-viral gene delivery  
Nuclear Magnetic Resonance (NMR) spectroscopy  
Nucleation  
Nucleoside transporters  
Oligonucleotide(s)  
Omics  
Onychomycosis  
Ophthalmic drug delivery  
Optical activity  
Oral absorption  
Oral drug delivery  
Organic Anion Transporter(s) (OAT)  
Organic Anion-Transporting Polypeptide(s) (OATP)  
Organic Cation Transporter(s) (OCT)  
Organic nanostructure(s)  
Osmosis  
Osmotic pressure  
Osmotic pump(s)  
Oxidation(s)  
Pair Distribution Function (PDF)  
Paracellular transport  
Parallel tube model(s)  
Partial least squares  
Particle size  
Partition coefficient(s)  
Partition function(s)  
Passive diffusion  
Pediatric  
Pegylation  
Peptide(s)  
Peptide delivery  
Peptide nucleic acid(s) (PNA)  
Peptide transporter(s)  
Percutaneous  
Permeability  
Permeability coefficient(s)  
Permeation enhancer(s)

P-glycoprotein (P-gp)  
pH  
Phage display(s)  
Pharmacodynamics  
Pharmacogenetics  
Pharmacogenomics  
Pharmacokinetic/pharmacodynamic (PK/PD) correlation  
Pharmacokinetic/pharmacodynamic (PK/PD) modeling  
Pharmacokinetics  
Pharmacometrics  
Pharmacoproteomics  
Pharmacoresistance  
Phase diagram(s)  
Phase I enzyme(s)  
Phase II enzyme(s)  
Phase II metabolism  
Phase I metabolism  
Phase separation(s)  
Phase transformation(s)  
Phase transition(s)  
Phenotype(s)  
Phospholipid(s)  
Photochemistry  
Photodegradation  
Photolysis  
Physical characterization  
Physical stability  
Physicochemical  
Physicochemical properties  
Physicomechanical properties  
Physiologically Based Pharmacokinetic (PBPK) modeling  
Physiological model(s)  
Placenta  
Plasmid DNA  
Polyamorphism  
Polyanion(s)  
Polycation(s)  
Polyelectrolyte(s)  
Polyethylene glycol (PEG)  
Polyglycolic acid (PLGA)

Poly(lactic acid) (PLA)  
Polymer(s)  
Polymerase chain reaction (PCR)  
Polymer biodegradation  
Polymer-biopolymer interactions  
Polymer chemical degradation  
Polymeric biomaterial(s)  
Polymeric drug(s)  
Polymeric drug carrier(s)  
Polymeric drug delivery system(s)  
Polymer synthesis  
Polymorph(s)  
Poorly water-soluble drug(s)  
Population pharmacodynamics  
Population pharmacokinetics  
Pore former(s)  
Porosity  
Positron Emission Tomography (PET)  
Powder technology(s)  
Precipitation  
Precision medicine  
Preclinical pharmacokinetics  
Preformulation  
Pregnancy  
Pressurized metered dose inhaler (pMDI)  
Principal component analysis  
Printing (3D)  
Probe substrate(s)  
Process analytical technology (PAT)  
Processing  
Prodrug(s)  
Protease(s)  
Protein(s)  
Protein aggregation  
Protein binding  
Protein delivery  
Protein folding  
Protein formulation(s)  
Protein refolding  
Protein structure(s)

Proteomic  
Pseudopolymorph(s)  
Pseudopolymorphism  
Pulmonary  
Pulmonary drug delivery  
Quality by design (QBD)  
Quantitative structure–activity relationship(s) (QSAR)  
Quantitative structure–property relationship(s) (QSPR)  
Raman spectroscopy  
Reactive oxygen species  
Receptor(s)  
Reduction(s)  
Refractive index  
Regulatory science  
Relaxation time(s)  
Renal clearance  
Renal excretion  
Renal metabolism  
Renal reabsorption  
Renal transport  
Residence time(s)  
Resonance Raman (RR) spectroscopy  
Responsive delivery system(s)  
Restriction fragment length polymorphism (RFLP)  
Retroviral vector(s)  
Rheology  
Ribozyme(s)  
RNA interference (RNAi)  
Robotics  
Salt disproportionation  
Salts  
Salt selection  
Scintigraphy  
Scintillation spectrometry  
Self-association  
Self-emulsifying  
Semi-solid(s)  
Separation science  
Silica  
SimCyp PBPK modeling

Simulation(s)  
Single nucleotide polymorphism (SNP)  
Site-specific absorption  
Site-specific delivery  
Skin  
Small interfering RNA (siRNA)  
Solid dispersion(s)  
Solid dosage form(s)  
Solid phase(s)  
Solid solution(s)  
Solid-state  
Solid-State NMR (SSNMR) spectroscopy  
Solid-state stability  
Solubility  
Solubilization  
Solute Carrier (SLC) transporter(s)  
Solution calorimetry  
Solution phase  
Solvate(s)  
Solvation  
Solvatomorph(s)  
Solvent evaporation  
Sorption  
Special populations  
Spectroscopy  
Spheronization  
Spray drying  
Spray freeze-drying  
Stability  
Stabilization  
Standards  
Static charge  
Statistical mechanics  
Structure  
Structure-activity relationship(s) (SAR)  
Structure-property relationship(s) (SPR)  
Structure-transport relationship(s) (STR)  
Sucrose  
Sulfotransferase(s)  
Supercritical Fluid(s) (SCF)



Super paramagnetic iron oxide nanoparticles  
Supersaturation  
Surface active  
Surface binding  
Surface chemistry  
Surface energy  
Surface Enhanced Raman Spectroscopy (SERS)  
Surface Plasmon Resonance (SPR) spectroscopy  
Surfactant(s)  
Surrogate marker(s)  
Suspension(s)  
Systems biology  
Systems pharmacology  
Tablet(s)  
Tableting  
Targeted drug delivery  
Target validation  
Texture  
Theranostic  
Therapeutic drug monitoring  
Thermal analysis  
Thermal gel(s)  
Thermodynamics  
Thermogravimetric Analysis (TGA)  
Tight junction(s)  
Time-Of-Flight Mass Spectrometry (TOF-MS)  
Tissue engineering  
Tissue partition  
Toxicity  
Toxicodynamics  
Toxicokinetics  
Toxicology  
Transcellular transport  
Transdermal  
Transfection  
Transgenics  
Transit time(s)  
Translational pharmacokinetics  
Transmucosal drug delivery  
Trans-Omics

Transport  
Transporter(s)  
Trehalose  
Tunable Diode Laser Absorption Spectroscopy (TDLAS)  
UDP-Glucuronosyltransferase (UGT)  
Ultrasound  
Unit operations  
US Pharmacopeia (USP)  
UV/Vis spectroscopy  
UV resonance raman spectroscopy  
Vaccine(s)  
Vaccine adjuvants  
Vaccine delivery  
Viral vector(s)  
Viscosity  
Water soluble  
Water sorption  
Well-stirred model  
Wetting  
Wound healing  
X-ray Powder Diffraction (XRD)  
Zwitterion