

Membrane transporters in drug development

Nature Reviews Drug Discovery

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Citation Report

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1	Oxidative Rancidity and Discoloration in Meat. <i>Advances in Food Research</i> , 1954, 5, 1-52.	0.3	139
2	[120] DPNH cytochrome c reductase (animal). <i>Methods in Enzymology</i> , 1955, 2, 688-693.	0.4	89
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1832	Diosgenyl Saponin Inducing Endoplasmic Reticulum Stress and Mitochondria-Mediated Apoptotic Pathways in Liver Cancer Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 11428-11435.	2.4	18
1833	Identification and Characterization of Efflux Transporters That Modulate the Subtoxic Disposition of Diclofenac and Its Metabolites. <i>Drug Metabolism and Disposition</i> , 2019, 47, 1080-1092.	1.7	12
1834	Anti-HIV and Anti-Hepatitis C Virus Drugs Inhibit P-Glycoprotein Efflux Activity in Caco-2 Cells and Precision-Cut Rat and Human Intestinal Slices. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	21
1835	Principles of Pharmacogenomics. , 2019, , 1-53.		3
1836	Interaction Between Direct Factor Xa Inhibitors and Digoxin. <i>American Journal of Therapeutics</i> , 2019, 26, e649-e652.	0.5	1
1837	The Presence of a Transporter-Induced Protein Binding Shift: A New Explanation for Protein-Facilitated Uptake and Improvement for In Vitro-In Vivo Extrapolation. <i>Drug Metabolism and Disposition</i> , 2019, 47, 358-363.	1.7	44
1838	Andrographolide is neither a human organic anion transporter 1 (hOAT1) substrate nor inhibitor. <i>Journal of Asian Natural Products Research</i> , 2019, 21, 754-771.	0.7	1
1839	The pharmacogenetics of natural products: A pharmacokinetic and pharmacodynamic perspective. <i>Pharmacological Research</i> , 2019, 146, 104283.	3.1	63
1840	Nonionic surfactants modulate the transport activity of ATP-binding cassette (ABC) transporters and solute carriers (SLC): Relevance to oral drug absorption. <i>International Journal of Pharmaceutics</i> , 2019, 566, 410-433.	2.6	40
1841	UHPLC-HRMS study of anti-Alzheimerâ€™s drug candidates: metabolism of 7-MEOTA-tryptophan hybrids hampers their passage into brain. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 174, 134-144.	1.4	2
1842	Endogenous, cholesterol-activated ATP-dependent transport in membrane vesicles from <i>Spodoptera frugiperda</i> cells. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 137, 104963.	1.9	4
1843	The effects of <i>Mannheimia haemolytica</i> and albendazole on marbofloxacin pharmacokinetics in lambs. <i>Tropical Animal Health and Production</i> , 2019, 51, 2603-2610.	0.5	2
1844	Model-inferred mechanisms of liver function from magnetic resonance imaging data: Validation and variation across a clinically relevant cohort. <i>PLoS Computational Biology</i> , 2019, 15, e1007157.	1.5	6
1845	Mechanistic Basis of Cabotegravirâ€™s Glucuronide Disposition in Humans. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 269-277.	1.3	4
1846	Mind the Gaps: Ontogeny of Human Brain P-gp and Its Impact on Drug Toxicity. <i>AAPS Journal</i> , 2019, 21, 67.	2.2	9
1847	A Comprehensive Analysis of Ontogeny of Renal Drug Transporters: mRNA Analyses, Quantitative Proteomics, and Localization. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 106, 1083-1092.	2.3	69
1848	The Efflux Mechanism of Fraxetin-O-Glucuronides in UGT1A9-Transfected HeLa Cells: Identification of Multidrug Resistance-Associated Proteins 3 and 4 (MRP3/4) as the Important Contributors. <i>Frontiers in Pharmacology</i> , 2019, 10, 496.	1.6	12

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1850	Skin metabolism phase I and phase II enzymes in native and reconstructed human skin: a short review. <i>Drug Discovery Today</i> , 2019, 24, 1899-1910.	3.2	52
1851	Translation of In Vitro Transport Inhibition Studies to Clinical Drug-Drug Interactions for Glecaprevir and Pibrentasvir. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 278-287.	1.3	14
1852	Clinical Extrapolation of the Effects of Dolutegravir and Other HIV Integrase Inhibitors on Folate Transport Pathways. <i>Drug Metabolism and Disposition</i> , 2019, 47, 890-898.	1.7	21
1853	Generation and Characterization of an <i>Abcc1</i> Humanized Mouse Model (<i>hABCC1</i> ^{flx/flx}) with Knockout Capability. <i>Molecular Pharmacology</i> , 2019, 96, 138-147.	1.0	4
1854	Studies on oral bioavailability and first-pass metabolism of withaferin A in rats using LC-MS/MS and Q-TRAP. <i>Biomedical Chromatography</i> , 2019, 33, e4573.	0.8	31
1855	Introduction: Biomembrane Structure, Dynamics, and Reactions. <i>Chemical Reviews</i> , 2019, 119, 5535-5536.	23.0	9
1856	Apical Shear Stress Enhanced Organic Cation Transport in Human OCT2/MATE1-Transfected Madin-Darby Canine Kidney Cells Involves Ciliary Sensing. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 523-530.	1.3	17
1857	Positron Emission Tomography Imaging of [¹¹ C]Rosuvastatin Hepatic Concentrations and Hepatobiliary Transport in Humans in the Absence and Presence of Cyclosporin A. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 106, 1056-1066.	2.3	51
1858	An updated patent review on P-glycoprotein inhibitors (2011-2018). <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 455-461.	2.4	49
1859	Interactions of Alectinib with Human ATP-Binding Cassette Drug Efflux Transporters and Cytochrome P450 Biotransformation Enzymes: Effect on Pharmacokinetic Multidrug Resistance. <i>Drug Metabolism and Disposition</i> , 2019, 47, 699-709.	1.7	15
1860	Palbociclib and ribociclib in breast cancer: consensus workshop on the management of concomitant medication. <i>Therapeutic Advances in Medical Oncology</i> , 2019, 11, 175883591983386.	1.4	39
1861	The Regional-Specific Relative and Absolute Expression of Gut Transporters in Adult Caucasians: A Meta-Analysis. <i>Drug Metabolism and Disposition</i> , 2019, 47, 854-864.	1.7	34
1862	Effects of naringenin on renal expression of organic cation transporter 1 and 2 proteins and metformin disposition in diabetic rats. <i>Journal of Functional Foods</i> , 2019, 59, 1-7.	1.6	4
1863	Enhanced Intestinal Permeability and Plasma Concentration of Metformin in Rats by the Repeated Administration of Red Ginseng Extract. <i>Pharmaceutics</i> , 2019, 11, 189.	2.0	20
1864	Effects of Epacadostat on Brain Extracellular Fluid Concentrations of Serotonin—an Intracerebral Microdialysis Study in Sprague-Dawley Rats. <i>Drug Metabolism and Disposition</i> , 2019, 47, 710-714.	1.7	3
1865	Current Advances in Studying Clinically Relevant Transporters of the Solute Carrier (SLC) Family by Connecting Computational Modeling and Data Science. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 390-405.	1.9	24
1866	Pharmacokinetic Interaction between Naloxone and Naltrexone Following Intranasal Administration to Healthy Subjects. <i>Drug Metabolism and Disposition</i> , 2019, 47, 690-698.	1.7	8

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1868	Come Dance With Me: Transformative Changes in the Science and Practice of Drug-Drug Interactions. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1272-1278.	2.3	8
1869	Effect of Rifampicin on the Plasma Concentrations of Bile Acid-O-Sulfates in Monkeys and Human Liver-Transplanted Chimeric Mice With or Without Bile Flow Diversion. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2756-2764.	1.6	13
1870	In-vitro and <i>in situ</i> assessment of the efflux of five antidepressants by breast cancer resistance protein. <i>Journal of Pharmacy and Pharmacology</i> , 2019, 71, 1133-1141.	1.2	9
1871	Towards Improved Pharmacokinetic Models for the Analysis of Transporter-Mediated Hepatic Disposition of Drug Molecules with Positron Emission Tomography. <i>AAPS Journal</i> , 2019, 21, 61.	2.2	14
1872	Xenobiotic transporter activity in zebrafish embryo ionocytes. <i>Aquatic Toxicology</i> , 2019, 212, 88-97.	1.9	17
1873	Peppermint (<i>Mentha piperita</i> L.) extract effectively inhibits cytochrome P450 3A4 (CYP3A4) mRNA induction in rifampicin-treated HepG2 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 1181-1192.	0.6	4
1874	Effects of the Glycoprotein Inhibitor Clarithromycin on the Pharmacokinetics of Intravenous and Oral Trosipium Chloride: A Way Crossover Drug-Drug Interaction Study in Healthy Subjects. <i>Journal of Clinical Pharmacology</i> , 2019, 59, 1319-1330.	1.0	5
1875	Relationship of MATE1 Inhibition and Cytotoxicity in Nephrotoxicity: Application for Safety Evaluation in Early Drug Discovery. <i>Toxicological Sciences</i> , 2019, 170, 223-233.	1.4	4
1876	Inhibitors of Human ABCG2: From Technical Background to Recent Updates With Clinical Implications. <i>Frontiers in Pharmacology</i> , 2019, 10, 208.	1.6	99
1877	Current Progress in Pharmacogenetics of Second-Line Antidiabetic Medications: Towards Precision Medicine for Type 2 Diabetes. <i>Journal of Clinical Medicine</i> , 2019, 8, 393.	1.0	20
1878	Modeling Exposure to Understand and Predict Kidney Injury. <i>Seminars in Nephrology</i> , 2019, 39, 176-189.	0.6	5
1879	Novel <i>in situ</i> visualisation of rat intestinal absorption of polyphenols via matrix-assisted laser desorption/ionisation mass spectrometry imaging. <i>Scientific Reports</i> , 2019, 9, 3166.	1.6	20
1880	Recovery of OATP1B Activity after Living Kidney Transplantation in Patients with End-Stage Renal Disease. <i>Pharmaceutical Research</i> , 2019, 36, 59.	1.7	12
1881	Pharmacokinetic and Pharmacodynamic Properties of Drug Delivery Systems. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 570-580.	1.3	94
1882	Constructing Supported Cell Membranes with Controllable Orientation. <i>Scientific Reports</i> , 2019, 9, 2747.	1.6	2
1883	Clinical Studies on Drug-Drug Interactions Involving Metabolism and Transport: Methodology, Pitfalls, and Interpretation. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1345-1361.	2.3	107
1884	Induction of multidrug resistance-associated protein 3 expression by diesel exhaust particle extract in human bronchial epithelial BEAS-2B cells. <i>Toxicology in Vitro</i> , 2019, 58, 60-68.	1.1	6

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1886	Membrane transporter data to support kinetically-informed chemical risk assessment using non-animal methods: Scientific and regulatory perspectives. <i>Environment International</i> , 2019, 126, 659-671.	4.8	18
1887	Application of New Cellular and Microphysiological Systems to Drug Metabolism Optimization and Their Positioning Respective to In Silico Tools. <i>SLAS Discovery</i> , 2019, 24, 523-536.	1.4	16
1888	Identification of anticancer OATP2B1 substrates by an in vitro triple-fluorescence-based cytotoxicity screen. <i>Archives of Toxicology</i> , 2019, 93, 953-964.	1.9	20
1889	Role of ABCG2 in Secretion into Milk of the Anti-Inflammatory Flunixin and Its Main Metabolite: In Vitro-In Vivo Correlation in Mice and Cows. <i>Drug Metabolism and Disposition</i> , 2019, 47, 516-524.	1.7	11
1890	Pharmacological characterization of the 3D MucilAir [®] nasal model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 139, 186-196.	2.0	39
1891	Physicochemical Properties, Biotransformation, and Transport Pathways of Established and Newly Approved Medications: A Systematic Review of the Top 200 Most Prescribed Drugs vs. the FDA-Approved Drugs Between 2005 and 2016. <i>Clinical Pharmacokinetics</i> , 2019, 58, 1281-1294.	1.6	98
1892	Increased Expression of Renal Drug Transporters in a Mouse Model of Familial Alzheimer's Disease. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2484-2489.	1.6	13
1893	Quantitative Contribution of Six Major Transporters to the Hepatic Uptake of Drugs: α -SLC-Phenotyping Using Primary Human Hepatocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 72-83.	1.3	58
1894	Comparing Various In Vitro Prediction Methods to Assess the Potential of a Drug to Inhibit P-glycoprotein (P-gp) Transporter In Vivo. <i>Journal of Clinical Pharmacology</i> , 2019, 59, 1049-1060.	1.0	10
1895	Organic anion transporter 3 (OAT3)-mediated transport of dicaffeoylquinic acids and prediction of potential drug-drug interaction. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 133, 95-103.	1.9	11
1896	Prediction of Human Nonlinear Pharmacokinetics of a New Bcl-2 Inhibitor Using PBPK Modeling and Interspecies Extrapolation Strategy. <i>Drug Metabolism and Disposition</i> , 2019, 47, 648-656.	1.7	7
1897	Regulation of P-glycoprotein by Bajijiasu <i>in vitro</i> and <i>in vivo</i> by activating the Nrf2-mediated signalling pathway. <i>Pharmaceutical Biology</i> , 2019, 57, 184-192.	1.3	12
1898	Genotoxicity and pharmacokinetic characterization of <i>Cereus jamacaru</i> ethanolic extract in rats. <i>Bioscience Reports</i> , 2019, 39, .	1.1	9
1899	Proteomic Quantification of Human Blood Brain Barrier SLC and ABC Transporters in Healthy Individuals and Dementia Patients. <i>Molecular Pharmaceutics</i> , 2019, 16, 1220-1233.	2.3	85
1900	Genetics of clozapine-associated neutropenia: recent advances, challenges and future perspective. <i>Pharmacogenomics</i> , 2019, 20, 279-290.	0.6	41
1901	The inhibitory effect of antiretroviral drugs on the L-carnitine uptake in human placenta. <i>Toxicology and Applied Pharmacology</i> , 2019, 368, 18-25.	1.3	10
1902	A teaching laboratory on the activation of xenobiotic transporters at fertilization of sea urchins. <i>Methods in Cell Biology</i> , 2019, 150, 429-447.	0.5	1

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1903	Organic Anion Transporting Polypeptides: Emerging Roles in Cancer Pharmacology. <i>Molecular Pharmacology</i> , 2019, 95, 490-506.	1.0	55
1904	Membrane transporters in traumatic brain injury: Pathological, pharmacotherapeutic, and developmental implications. <i>Experimental Neurology</i> , 2019, 317, 10-21.	2.0	5
1905	Inhibition of the amino acid transporter LAT1 demonstrates anti-neoplastic activity in medulloblastoma. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 2711-2718.	1.6	34
1906	Multi-omics comparisons of <i>p</i> -aminosalicylic acid (PAS) resistance in <i>folC</i> mutated and un-mutated <i>Mycobacterium tuberculosis</i> strains. <i>Emerging Microbes and Infections</i> , 2019, 8, 248-261.	3.0	14
1907	Current Noninvasive MR-Based Imaging Methods in Assessing NAFLD Patients. , 0, .		0
1908	Overview of organic anion transporters and organic anion transporter polypeptides and their roles in the liver. <i>World Journal of Clinical Cases</i> , 2019, 7, 3915-3933.	0.3	32
1909	Analysing the antidepressant and drug efflux competence of <i>Clitoria ternatea</i> L. as P-glycoprotein inhibitor to facilitate blood brain barrier. <i>Acta Scientiarum - Biological Sciences</i> , 0, 41, e46629.	0.3	0
1910	Pharmacokinetic and Pharmacodynamic Profiles of Cefiderocol, a Novel Siderophore Cephalosporin. <i>Clinical Infectious Diseases</i> , 2019, 69, S552-S558.	2.9	62
1911	The ABCG2 multidrug transporter is a pump gated by a valve and an extracellular lid. <i>Nature Communications</i> , 2019, 10, 5433.	5.8	44
1912	Quantitative Protein Expression in the Human Retinal Pigment Epithelium: Comparison Between Apical and Basolateral Plasma Membranes With Emphasis on Transporters. , 2019, 60, 5022.		18
1913	Evaluation of Drug Biliary Excretion Using Sandwich-Cultured Human Hepatocytes. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2019, 44, 13-30.	0.6	10
1914	A Generic Model for Quantitative Prediction of Interactions Mediated by Efflux Transporters and Cytochromes: Application to P-Glycoprotein and Cytochrome 3A4. <i>Clinical Pharmacokinetics</i> , 2019, 58, 503-523.	1.6	10
1915	Inhibition of organic cation transporter (OCT) activities by carcinogenic heterocyclic aromatic amines. <i>Toxicology in Vitro</i> , 2019, 54, 10-22.	1.1	10
1916	Multiple binding sites in organic cation transporters require sophisticated procedures to identify interactions of novel drugs. <i>Biological Chemistry</i> , 2019, 400, 195-207.	1.2	41
1917	A simple approach for restoration of differentiation and function in cryopreserved human hepatocytes. <i>Archives of Toxicology</i> , 2019, 93, 819-829.	1.9	22
1918	Pharmacokinetic mechanisms underlying the detoxification effect of <i>Glycyrrhizae Radix et Rhizoma</i> (<i>Gancao</i>): drug metabolizing enzymes, transporters, and beyond. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2019, 15, 167-177.	1.5	27
1919	Hepatic microcirculation and mechanisms of portal hypertension. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2019, 16, 221-234.	8.2	148
1920	OCTN: A Small Transporter Subfamily with Great Relevance to Human Pathophysiology, Drug Discovery, and Diagnostics. <i>SLAS Discovery</i> , 2019, 24, 89-110.	1.4	56

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1921	Structural biology and structure–function relationships of membrane proteins. <i>Biochemical Society Transactions</i> , 2019, 47, 47-61.	1.6	24
1922	The Use of Molecular Descriptors To Model Pharmaceutical Uptake by a Fish Primary Gill Cell Culture Epithelium. <i>Environmental Science & Technology</i> , 2019, 53, 1576-1584.	4.6	14
1923	Pharmacogenetics of Membrane Transporters of Tacrolimus in Solid Organ Transplantation. <i>Clinical Pharmacokinetics</i> , 2019, 58, 593-613.	1.6	37
1924	Protein Abundance of Clinically Relevant Drug Transporters in the Human Liver and Intestine: A Comparative Analysis in Paired Tissue Specimens. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1204-1212.	2.3	92
1925	Multi-drug resistance protein 2 (MRP2) expression, adjuvant tamoxifen therapy, and risk of breast cancer recurrence: a Danish population-based nested case-control study. <i>Acta Oncologica</i> , 2019, 58, 168-174.	0.8	4
1926	Clinical Aspects of Transporter-Mediated Drug–Drug Interactions. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 105, 1386-1394.	2.3	88
1927	ABCG2 c.421C>A polymorphism alters nifedipine transport to breast milk in hypertensive breastfeeding women. <i>Reproductive Toxicology</i> , 2019, 85, 1-5.	1.3	8
1928	Structural basis for prodrug recognition by the SLC15 family of proton-coupled peptide transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 804-809.	3.3	43
1929	No Effect of Plazomicin on the Pharmacokinetics of Metformin in Healthy Subjects. <i>Clinical Pharmacology in Drug Development</i> , 2019, 8, 818-826.	0.8	5
1930	Anastrozole Aromatase Inhibitor Plasma Drug Concentration Genome-Wide Association Study: Functional Epistatic Interaction Between <i>SLC38A7</i> and <i>ALPPL2</i> . <i>Clinical Pharmacology and Therapeutics</i> , 2019, 106, 219-227.	2.3	10
1931	The Impact of Endogenous Breast Cancer Resistance Protein on Human P-Glycoprotein-Mediated Transport Assays Using LLC-PK1 Cells Transfected With Human P-Glycoprotein. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1085-1089.	1.6	3
1932	The impact of lipophilicity on environmental processes, drug delivery and bioavailability of food components. <i>Microchemical Journal</i> , 2019, 146, 393-406.	2.3	67
1933	Organic Anion Transporting Polypeptide (OATP) transporter expression, localization and function in the human intestine. , 2019, 195, 39-53.		39
1934	Identification of competitive inhibitors of the human taurine transporter TauT in a human kidney cell line. <i>Pharmacological Reports</i> , 2019, 71, 121-129.	1.5	7
1935	Chemotherapy in pregnancy: exploratory study of the effects of paclitaxel on the expression of placental drug transporters. <i>Investigational New Drugs</i> , 2019, 37, 1075-1085.	1.2	14
1936	Human iPSC-derived blood-brain barrier microvessels: validation of barrier function and endothelial cell behavior. <i>Biomaterials</i> , 2019, 190-191, 24-37.	5.7	141
1937	Comprehensive Evaluation of the Utility of 20 Endogenous Molecules as Biomarkers of OATP1B Inhibition Compared with Rosuvastatin and Coproporphyrin I. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 368, 125-135.	1.3	36
1938	Influence of Multidrug Resistance-Associated Proteins on the Excretion of the ABCC1 Imaging Probe 6-Bromo-7-[11C]Methylpurine in Mice. <i>Molecular Imaging and Biology</i> , 2019, 21, 306-316.	1.3	15

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1940	A Comprehensive Overview of the Clinical Pharmacokinetics of Clobazam. <i>Journal of Clinical Pharmacology</i> , 2019, 59, 7-19.	1.0	17
1941	Physiologically-based pharmacokinetic modeling for mirabegron: a multi-elimination pathway mediated by cytochrome P450 3A4, uridine 5'-diphosphate-glucuronosyltransferase 2B7, and butyrylcholinesterase. <i>Xenobiotica</i> , 2019, 49, 912-921.	0.5	6
1943	Vectorizing agrochemicals: enhancing bioavailability via carrier-mediated transport. <i>Pest Management Science</i> , 2019, 75, 1507-1516.	1.7	37
1944	Rat Organic Cation Transporter 1 Contains Three Binding Sites for Substrate 1-Methyl-4-phenylpyridinium per Monomer. <i>Molecular Pharmacology</i> , 2019, 95, 169-182.	1.0	28
1945	A three-dimensional microfluidized liver system to assess hepatic drug metabolism and hepatotoxicity. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1152-1163.	1.7	25
1946	Folate and choline absorption and uptake: Their role in fetal development. <i>Biochimie</i> , 2019, 158, 10-19.	1.3	32
1947	Physiologically Based Pharmacokinetic Modeling in Regulatory Science: An Update From the U.S. Food and Drug Administration's Office of Clinical Pharmacology. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 21-25.	1.6	228
1948	Simultaneous absolute quantitation of ATP-binding cassette transporters in normal dog tissues by signature peptide analysis using a LC/MS/MS method. <i>Research in Veterinary Science</i> , 2019, 122, 93-101.	0.9	6
1949	Segmental-Dependent Intestinal Drug Permeability: Development and Model Validation of In Silico Predictions Guided by In Vivo Permeability Values. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 316-325.	1.6	16
1950	Investigation of non-linear MATE1-mediated efflux of trimethoprim in the mouse kidney as the mechanism underlying drug-drug interactions between trimethoprim and organic cations in the kidney. <i>Drug Metabolism and Pharmacokinetics</i> , 2019, 34, 87-94.	1.1	8
1951	Synergy of clavine alkaloid <i>chanoclavine</i> ™ with tetracycline against multi-drug-resistant <i>E. coli</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1307-1325.	2.0	42
1952	Interactions of organophosphorus pesticides with solute carrier (SLC) drug transporters. <i>Xenobiotica</i> , 2019, 49, 363-374.	0.5	25
1953	Discovery of Allosteric, Potent, Subtype Selective, and Peripherally Restricted TrkA Kinase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 247-265.	2.9	44
1954	A Practical Perspective on the Evaluation of Small Molecule CNS Penetration in Drug Discovery. <i>Drug Metabolism Letters</i> , 2020, 13, 78-94.	0.5	7
1955	Microsystem for the single molecule analysis of membrane transport proteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129330.	1.1	5
1956	Effect of Bisoprolol on the Level of Dabigatran. <i>American Journal of Therapeutics</i> , 2020, 27, e159-e164.	0.5	7
1957	A hybrid model to evaluate the impact of active uptake transport on hepatic distribution of atorvastatin in rats. <i>Xenobiotica</i> , 2020, 50, 536-544.	0.5	5

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1959	Physiologically-Based Pharmacokinetic Models for Evaluating Membrane Transporter Mediated Drug-Drug Interactions: Current Capabilities, Case Studies, Future Opportunities, and Recommendations. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 1082-1115.	2.3	88
1960	LPS-induced inflammation delays the transportation of ASP ⁺ due to down-regulation of OCTN1/2 in alveolar epithelial cells. <i>Journal of Drug Targeting</i> , 2020, 28, 437-447.	2.1	12
1961	Design, Synthesis, and Pharmacological Evaluation of Potent Positive Allosteric Modulators of the Glucagon-like Peptide-1 Receptor (GLP-1R). <i>Journal of Medicinal Chemistry</i> , 2020, 63, 2292-2307.	2.9	21
1962	Involvement of organic anion-transporting polypeptides and organic cation transporter in the hepatic uptake of jatrorrhizine. <i>Xenobiotica</i> , 2020, 50, 479-487.	0.5	6
1963	Assessment of Transporter Polymorphisms as a Factor in a BCRP Drug Interaction Study With Lanabecestat. <i>Journal of Clinical Pharmacology</i> , 2020, 60, 107-116.	1.0	5
1964	Implication of human drug transporters to toxicokinetics and toxicity of pesticides. <i>Pest Management Science</i> , 2020, 76, 18-25.	1.7	16
1965	Complex DDI by Fenebrutinib and the Use of Transporter Endogenous Biomarkers to Elucidate the Mechanism of <sc>DDI</sc>. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 269-277.	2.3	48
1966	<i>In vitro</i> metabolism and <i>in vivo</i> pharmacokinetics of bentysrepinine (Y101), an investigational new drug for anti-HBV-infected hepatitis: focus on interspecies comparison. <i>Xenobiotica</i> , 2020, 50, 468-478.	0.5	4
1967	In vitro assessment of P-gp and BCRP transporter-mediated drug-drug interactions of riociguat with direct oral anticoagulants. <i>Fundamental and Clinical Pharmacology</i> , 2020, 34, 109-119.	1.0	18
1968	Bleomycin Induces Drug Efflux in Lungs. A Pitfall for Pharmacological Studies of Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 178-190.	1.4	16
1969	VARIDT 1.0: variability of drug transporter database. <i>Nucleic Acids Research</i> , 2020, 48, D1042-D1050.	6.5	126
1970	Efflux transporters in cancer resistance: Molecular and functional characterization of breast cancer resistance protein. , 2020, , 67-96.		1
1971	Changes in Organic Anion Transporting Polypeptide Uptake in HEK293 Overexpressing Cells in the Presence and Absence of Human Plasma. <i>Drug Metabolism and Disposition</i> , 2020, 48, 18-24.	1.7	16
1972	Harnessing the therapeutic potential of anticancer drugs through amorphous solid dispersions. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020, 1873, 188319.	3.3	51
1973	Targeting the ubiquitin-proteasome pathway to overcome anti-cancer drug resistance. <i>Drug Resistance Updates</i> , 2020, 48, 100663.	6.5	180
1974	Human efflux transport of testosterone, epitestosterone and other androgen glucuronides. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 197, 105518.	1.2	14
1975	Quantitative Prediction of Interactions Mediated by Transporters and Cytochromes: Application to Organic Anion Transporting Polypeptides, Breast Cancer Resistance Protein and Cytochrome 2C8. <i>Clinical Pharmacokinetics</i> , 2020, 59, 757-770.	1.6	5
1976	Preliminary <i>in Vitro</i> Assessment of the Potential of EST64454, a Sigma-1 Receptor Antagonist, for Pharmacokinetic Drug-Drug Interactions. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 68-76.	0.6	4

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1978	OCTN2-targeted nanoparticles for oral delivery of paclitaxel: differential impact of the polyethylene glycol linker size on drug delivery <i>in vitro</i> , <i>in situ</i> , and <i>in vivo</i> . <i>Drug Delivery</i> , 2020, 27, 170-179.	2.5	19
1979	Recent advances in <i>in vitro</i> approaches towards quantitative prediction of hepatic clearance and drug-drug interactions involving organic anion transporting polypeptide (OATP) 1B transporters. <i>Drug Metabolism and Pharmacokinetics</i> , 2020, 35, 56-70.	1.1	18
1980	Identification and quantitation of enzyme and transporter contributions to hepatic clearance for the assessment of potential drug-drug interactions. <i>Drug Metabolism and Pharmacokinetics</i> , 2020, 35, 18-29.	1.1	6
1981	Clinically Relevant OATP2B1 Inhibitors in Marketed Drug Space. <i>Molecular Pharmaceutics</i> , 2020, 17, 488-498.	2.3	9
1982	Organic Cation Transporters in Health and Disease. <i>Pharmacological Reviews</i> , 2020, 72, 253-319.	7.1	180
1983	Mechanical Deformation Mediated Transmembrane Transport. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900518.	2.0	5
1984	Targeting uptake transporters for cancer imaging and treatment. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 79-90.	5.7	46
1985	Synthesis, spectroscopic characterization and molecular docking study of ethyl 2-(4-(5, 7-dimethyl-1H-imidazo[4,5-f]thiazolo[5,4-d]thiazol-2-yl)phenyl)acetate as a novel chemotherapeutic treatment of breast cancer cells. <i>Chemical Physics</i> , 2020, 530, 110596.	0.9	4
1986	Involvement of aryl hydrocarbon receptor in the cytotoxicity of corannulene and its derivatives. <i>Toxicology Letters</i> , 2020, 321, 114-121.	0.4	2
1987	Placental transporter-mediated drug interactions and offspring congenital anomalies. <i>British Journal of Clinical Pharmacology</i> , 2020, 86, 868-879.	1.1	9
1988	The Brain Exposure Efficiency (BEE) Score. <i>ACS Chemical Neuroscience</i> , 2020, 11, 205-224.	1.7	12
1989	Characterization of organic anion transporting polypeptide 1b2 knockout rats generated by CRISPR/Cas9: a novel model for drug transport and hyperbilirubinemia disease. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 850-860.	5.7	23
1990	5-fluorouracil and other fluoropyrimidines in colorectal cancer: Past, present and future. , 2020, 206, 107447.		449
1991	A novel fluorescence-based functional assay for human OATP1A2 and OATP1C1 identifies interaction between third-generation P-gp inhibitors and OATP1A2. <i>FEBS Journal</i> , 2020, 287, 2468-2485.	2.2	18
1992	Estimating Efflux Transporter-Mediated Disposition of Molecules beyond the Rule of Five (bRo5) Using Transporter Gene Knockout Rats. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 384-392.	0.6	3
1993	Cadmium exposure enhances organic cation transporter 2 trafficking to the kidney membrane and exacerbates cisplatin nephrotoxicity. <i>Kidney International</i> , 2020, 97, 765-777.	2.6	13
1994	Physiologically Based Pharmacokinetic Approach Can Successfully Predict Pharmacokinetics of Citalopram in Different Patient Populations. <i>Journal of Clinical Pharmacology</i> , 2020, 60, 477-488.	1.0	8

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1996	A Systematic Review of Gastric Acid-Reducing Agent-Mediated Drug-Drug Interactions with Orally Administered Medications. <i>Clinical Pharmacokinetics</i> , 2020, 59, 447-462.	1.6	50
1997	The effect of genetic variations on ribavirin pharmacokinetics and treatment response in HCV-4 Egyptian patients receiving sofosbuvir/daclatasvir and ribavirin. <i>Biomedicine and Pharmacotherapy</i> , 2020, 121, 109657.	2.5	7
1998	Interaction of Organic Anion Transporter 3-Mediated Uptake of Steviol Acyl Glucuronide, a Major Metabolite of Rebaudioside A, with Selected Drugs. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1579-1587.	2.4	6
1999	Drug-nutrient interactions: discovering prescription drug inhibitors of the thiamine transporter ThTR-2 (SLC19A3). <i>American Journal of Clinical Nutrition</i> , 2020, 111, 110-121.	2.2	24
2000	Expanding Precompetitive Multisector Collaborations to Advance Drug Development and Pharmacogenomics. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 96-101.	2.3	6
2001	Absorption difference between hepatotoxic pyrrolizidine alkaloids and their N-oxides – Mechanism and its potential toxic impact. <i>Journal of Ethnopharmacology</i> , 2020, 249, 112421.	2.0	22
2002	ABC Transporters at the Blood-Brain Interfaces, Their Study Models, and Drug Delivery Implications in Gliomas. <i>Pharmaceutics</i> , 2020, 12, 20.	2.0	80
2003	Completing the Enalaprilat Excretion Pathway – Renal Handling by the Proximal Tubule. <i>Pharmaceutics</i> , 2020, 12, 935.	2.0	4
2004	The Development and Validation of a Novel “Dual Cocktail” Probe for Cytochrome P450s and Transporter Functions to Evaluate Pharmacokinetic Drug-Drug and Herb-Drug Interactions. <i>Pharmaceutics</i> , 2020, 12, 938.	2.0	9
2005	Toward a Systematic Structural and Functional Annotation of Solute Carriers Transporters – Example of the SLC6 and SLC7 Families. <i>Frontiers in Pharmacology</i> , 2020, 11, 1229.	1.6	8
2006	Predicting the Human Hepatic Clearance of Acidic and Zwitterionic Drugs. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 11831-11844.	2.9	14
2007	Post-translational regulation of the major drug transporters in the families of organic anion transporters and organic anion-transporting polypeptides. <i>Journal of Biological Chemistry</i> , 2020, 295, 17349-17364.	1.6	28
2008	Transporter-Targeted Nano-Sized Vehicles for Enhanced and Site-Specific Drug Delivery. <i>Cancers</i> , 2020, 12, 2837.	1.7	20
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2011	Unassisted N-acetyl-phenylalanine-amide transport across membrane with varying lipid size and composition: kinetic measurements and atomistic molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, , 1-16.	2.0	1
2012	The ABCG2/BCRP transporter and its variants – from structure to pathology. <i>FEBS Letters</i> , 2020, 594, 4012-4034.	1.3	36

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2028	Neurobiology of glycine transporters: From molecules to behavior. Neuroscience and Biobehavioral Reviews, 2020, 118, 97-110.	2.9	27
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2032	Detection of Weak Organic Anion-Transporting Polypeptide 1B Inhibition by Probenecid with Plasma-Based Coproporphyrin in Humans. <i>Drug Metabolism and Disposition</i> , 2020, 48, 841-848.	1.7	21
2033	Mathematical modeling analysis of hepatic uric acid disposition using human sandwich-cultured hepatocytes. <i>Drug Metabolism and Pharmacokinetics</i> , 2020, 35, 432-440.	1.1	6
2034	Comparison of In Vitro to In Vivo Extrapolation Approaches for Predicting Transporter-Mediated Hepatic Uptake Clearance Using Suspended Rat Hepatocytes. <i>Drug Metabolism and Disposition</i> , 2020, 48, 861-872.	1.7	14
2035	Solute Carrier Transportome in Chemotherapy-Induced Adverse Drug Reactions. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2020, , 177-215.	0.9	6
2036	Clinical MDR1 inhibitors enhance Smac-mimetic bioavailability to kill murine LSCs and improve survival in AML models. <i>Blood Advances</i> , 2020, 4, 5062-5077.	2.5	6
2037	Hepatic impacts of gold nanoparticles with different surface coatings as revealed by assessing the hepatic drug-metabolizing enzyme and lipid homeostasis in mice. <i>NanoImpact</i> , 2020, 20, 100259.	2.4	12
2038	Mass spectrometry-based abundance atlas of ABC transporters in human liver, gut, kidney, brain and skin. <i>FEBS Letters</i> , 2020, 594, 4134-4150.	1.3	21
2039	Deorphaning a solute carrier 22 family member, SLC22A15, through functional genomic studies. <i>FASEB Journal</i> , 2020, 34, 15734-15752.	0.2	21
2041	Enhancing Chemotherapy by RNA Interference. <i>BIO Integration</i> , 2020, 1, .	0.9	11
2042	Functional and Pharmacological Comparison of Human, Mouse, and Rat Organic Cation Transporter 1 toward Drug and Pesticide Interaction. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6871.	1.8	13
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2045	Monodisperse Liposomes with Femtoliter Volume Enable Quantitative Digital Bioassays of Membrane Transporters and Cell-Free Gene Expression. <i>ACS Nano</i> , 2020, 14, 11700-11711.	7.3	17
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2047	Using Ex Vivo Porcine Jejunum to Identify Membrane Transporter Substrates: A Screening Tool for Early-Stage Drug Development. <i>Biomedicines</i> , 2020, 8, 340.	1.4	8
2048	In vitro function and in situ localization of Multidrug Resistance-associated Protein (MRP)1 (ABCC1) suggest a protective role against methyl mercury-induced oxidative stress in the human placenta. <i>Archives of Toxicology</i> , 2020, 94, 3799-3817.	1.9	14
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2054	Pharmacogenetics of Statin-Induced Myotoxicity. <i>Frontiers in Genetics</i> , 2020, 11, 575678.	1.1	33
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2058	Differential interactions of carbamate pesticides with drug transporters. <i>Xenobiotica</i> , 2020, 50, 1380-1392.	0.5	10
2059	Interindividual Diversity in Expression of Organic Anion Uptake Transporters in Normal and Cirrhotic Human Liver. <i>Hepatology Communications</i> , 2020, 4, 739-752.	2.0	16
2060	Nucleoside Reverse Transcriptase Inhibitor Interaction with Human Equilibrative Nucleoside Transporters 1 and 2. <i>Drug Metabolism and Disposition</i> , 2020, 48, 603-612.	1.7	15
2061	Super-resolution Surface-Enhanced Raman Scattering Imaging of Single Particles in Cells. <i>Analytical Chemistry</i> , 2020, 92, 9389-9398.	3.2	29
2062	Validation of Pharmacological Protocols for Targeted Inhibition of Canalicular MRP2 Activity in Hepatocytes Using [99mTc]mebrofenin Imaging in Rats. <i>Pharmaceutics</i> , 2020, 12, 486.	2.0	7
2063	Vascular Drug Delivery Using Carrier Red Blood Cells: Focus on RBC Surface Loading and Pharmacokinetics. <i>Pharmaceutics</i> , 2020, 12, 440.	2.0	66
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2065	Pharmacokinetic functions of human induced pluripotent stem cell-derived small intestinal epithelial cells. <i>Drug Metabolism and Pharmacokinetics</i> , 2020, 35, 374-382.	1.1	33
2066	Dually directional glycosylated phthalocyanines as extracellular red-emitting fluorescent probes. <i>Dalton Transactions</i> , 2020, 49, 9605-9617.	1.6	3
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2068	Influence of Single Nucleotide Polymorphisms on Rifampin Pharmacokinetics in Tuberculosis Patients. <i>Antibiotics</i> , 2020, 9, 307.	1.5	14

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2071	Abcg2 transporter affects plasma, milk and tissue levels of meloxicam. <i>Biochemical Pharmacology</i> , 2020, 175, 113924.	2.0	10
2072	Characterization of <i>Meta</i> -Iodobenzylguanidine (mIBG) Transport by Polyspecific Organic Cation Transporters: Implication for mIBG Therapy. <i>Molecular Pharmacology</i> , 2020, 98, 109-119.	1.0	18
2073	Development of Artificial Cell Models Using Microfluidic Technology and Synthetic Biology. <i>Micromachines</i> , 2020, 11, 559.	1.4	27
2074	Binding Site Interactions of Modulators of Breast Cancer Resistance Protein, Multidrug Resistance-Associated Protein 2, and P-Glycoprotein Activity. <i>Molecular Pharmaceutics</i> , 2020, 17, 2398-2410.	2.3	12
2075	Association of the Epithelial-Mesenchymal Transition (EMT) with Cisplatin Resistance. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4002.	1.8	160
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2077	Physicochemical and biopharmaceutical characterization of novel Matrix-Liposomes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 153, 158-167.	2.0	2
2078	Validation of a Drug Transporter Probe Cocktail Using the Prototypical Inhibitors Rifampin, Probenecid, Verapamil, and Cimetidine. <i>Clinical Pharmacokinetics</i> , 2020, 59, 1627-1639.	1.6	28
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2081	Environmental contaminants modulate transport activity of zebrafish organic anion transporters Oat1 and Oat3. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 231, 108742.	1.3	1
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2109	<i>In Silico</i> Prediction of Human Renal Clearance of Compounds Using Quantitative Structure-Pharmacokinetic Relationship Models. Chemical Research in Toxicology, 2020, 33, 640-650.	1.7	16
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2115	Brain accumulation of tivozanib is restricted by ABCB1 (P-glycoprotein) and ABCG2 (breast cancer) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	11
2116	Role of <i>SLC</i> transporters in toxicity induced by anticancer drugs. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 493-506.	1.5	15
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