

Pieter Annaert

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8868688/publications.pdf>

Version: 2024-02-01

193
papers

7,581
citations

41323

49
h-index

69214

77
g-index

198
all docs

198
docs citations

198
times ranked

8984
citing authors

#	ARTICLE	IF	CITATIONS
1	Systemic availability and metabolism of colonicâ€derived shortâ€chain fatty acids in healthy subjects: a stable isotope study. <i>Journal of Physiology</i> , 2017, 595, 541-555.	1.3	254
2	Favipiravir at high doses has potent antiviral activity in SARS-CoV-2â~infected hamsters, whereas hydroxychloroquine lacks activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26955-26965.	3.3	240
3	Ordered Mesoporous Silica Material SBA-15: A Broad-Spectrum Formulation Platform for Poorly Soluble Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 2648-2658.	1.6	237
4	Increasing the oral bioavailability of the poorly water soluble drug itraconazole with ordered mesoporous silica. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 223-230.	2.0	221
5	Strategies for Absorption Screening in Drug Discovery and Development. <i>Current Topics in Medicinal Chemistry</i> , 2001, 1, 367-383.	1.0	207
6	Enhanced absorption of the poorly soluble drug fenofibrate by tuning its release rate from ordered mesoporous silica. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 41, 623-630.	1.9	180
7	A review of drug solubility in human intestinal fluids: Implications for the prediction of oral absorption. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 57, 322-332.	1.9	159
8	The FXR Agonist Obeticholic Acid Prevents Gut Barrier Dysfunction and Bacterial Translocation in Cholestatic Rats. <i>American Journal of Pathology</i> , 2015, 185, 409-419.	1.9	156
9	Interaction of HIV protease inhibitors with OATP1B1, 1B3, and 2B1. <i>Xenobiotica</i> , 2010, 40, 163-176.	0.5	148
10	Antiretroviral Efficacy and Pharmacokinetics of Oral Bis(isopropoxyloxycarbonyloxymethyl)9-(2-Phosphonylmethoxypropyl)adenine in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 1998, 42, 1568-1573.	1.4	135
11	Pharmacokinetics of caspofungin and voriconazole in critically ill patients during extracorporeal membrane oxygenation. <i>Journal of Antimicrobial Chemotherapy</i> , 2009, 63, 767-770.	1.3	125
12	Excipient-Mediated Supersaturation Stabilization in Human Intestinal Fluids. <i>Molecular Pharmaceutics</i> , 2011, 8, 564-570.	2.3	119
13	Clinical determinants of calcineurin inhibitor disposition: a mechanistic review. <i>Drug Metabolism Reviews</i> , 2016, 48, 88-112.	1.5	119
14	In Vitro Hepatic Metabolism Explains Higher Clearance of Voriconazole in Children versus Adults: Role of CYP2C19 and Flavin-Containing Monooxygenase 3. <i>Drug Metabolism and Disposition</i> , 2010, 38, 25-31.	1.7	115
15	Effect of pH and Comedication on Gastrointestinal Absorption of Posaconazole. <i>Clinical Pharmacokinetics</i> , 2011, 50, 725-734.	1.6	114
16	Combined use of ordered mesoporous silica and precipitation inhibitors for improved oral absorption of the poorly soluble weak base itraconazole. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 75, 354-365.	2.0	111
17	Structure-Based Identification of OATP1B1/3 Inhibitors. <i>Molecular Pharmacology</i> , 2013, 83, 1257-1267.	1.0	110
18	Sandwich-cultured hepatocytes: utility for <i>in vitro</i> exploration of hepatobiliary drug disposition and drug-induced hepatotoxicity. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2013, 9, 589-616.	1.5	110

#	ARTICLE	IF	CITATIONS
19	Postprandial Changes in Solubilizing Capacity of Human Intestinal Fluids for BCS Class II Drugs. <i>Pharmaceutical Research</i> , 2009, 26, 1456-1466.	1.7	109
20	Drug precipitationâ€permeation interplay: Supersaturation in an absorptive environment. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 424-428.	2.0	107
21	Albumin is the main plasma binding protein for indoxyl sulfate and <i>p</i>â€resyl sulfate. <i>Biopharmaceutics and Drug Disposition</i> , 2013, 34, 165-175.	1.1	104
22	High Inpatient Variability of Tacrolimus Concentrations Predicts Accelerated Progression of Chronic Histologic Lesions in Renal Recipients. <i>American Journal of Transplantation</i> , 2016, 16, 2954-2963.	2.6	102
23	Intestinal drug solubility estimation based on simulated intestinal fluids: Comparison with solubility in human intestinal fluids. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 43, 260-269.	1.9	97
24	Drug Supersaturation in Simulated Human Intestinal Fluids Representing Different Nutritional States. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 4525-4534.	1.6	88
25	Food-dependent disintegration of immediate release fosamprenavir tablets: In vitro evaluation using magnetic resonance imaging and a dynamic gastrointestinal system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 313-319.	2.0	84
26	Role of Flavin-Containing Monooxygenase in Oxidative Metabolism of Voriconazole by Human Liver Microsomes. <i>Drug Metabolism and Disposition</i> , 2008, 36, 1119-1125.	1.7	82
27	Intramuscular Administration of Paliperidone Palmitate Extended-Release Injectable Microsuspension Induces a Subclinical Inflammatory Reaction Modulating the Pharmacokinetics in Rats. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2072-2087.	1.6	80
28	Ordered mesoporous silica induces pH-independent supersaturation of the basic low solubility compound itraconazole resulting in enhanced transepithelial transport. <i>International Journal of Pharmaceutics</i> , 2008, 357, 169-179.	2.6	79
29	Hepatocyte-based in vitro model for assessment of drug-induced cholestasis. <i>Toxicology and Applied Pharmacology</i> , 2014, 274, 124-136.	1.3	79
30	The ontogeny of drug metabolizing enzymes and transporters in the rat. <i>Reproductive Toxicology</i> , 2008, 26, 220-230.	1.3	78
31	EXPRESSION AND INDUCTION POTENTIAL OF CYTOCHROMES P450 IN HUMAN CRYOPRESERVED HEPATOCYTES. <i>Drug Metabolism and Disposition</i> , 2005, 33, 1004-1016.	1.7	77
32	Sodium fluorescein is a probe substrate for hepatic drug transport mediated by OATP1B1 and OATP1B3. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 5018-5030.	1.6	74
33	Cell-based models to study hepatic drug metabolism and enzyme induction in humans. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2005, 1, 75-90.	1.5	68
34	ASSESSMENT OF DRUG INTERACTIONS IN HEPATOBILIARY TRANSPORT USING RHODAMINE 123 IN SANDWICH-CULTURED RAT HEPATOCYTES. <i>Drug Metabolism and Disposition</i> , 2005, 33, 388-394.	1.7	67
35	Ex vivo permeability experiments in excised rat intestinal tissue and in vitro solubility measurements in aspirated human intestinal fluids support age-dependent oral drug absorption. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 39, 15-22.	1.9	67
36	In situ perfusion in rodents to explore intestinal drug absorption: Challenges and opportunities. <i>International Journal of Pharmaceutics</i> , 2015, 478, 665-681.	2.6	63

#	ARTICLE	IF	CITATIONS
37	Rapid conversion of the ester prodrug abiraterone acetate results in intestinal supersaturation and enhanced absorption of abiraterone: In vitro, rat in situ and human in vivo studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 90, 1-7.	2.0	62
38	Higher clearance of micafungin in neonates compared with adults: role of age-dependent micafungin serum binding. <i>Biopharmaceutics and Drug Disposition</i> , 2011, 32, 222-232.	1.1	61
39	Determinants of the Magnitude of Interaction Between Tacrolimus and Voriconazole/Posaconazole in Solid Organ Recipients. <i>American Journal of Transplantation</i> , 2017, 17, 2372-2380.	2.6	60
40	Ontogeny of Hepatic Transporters and Drug-Metabolizing Enzymes in Humans and in Nonclinical Species. <i>Pharmacological Reviews</i> , 2021, 73, 597-678.	7.1	60
41	Drug absorption studies of prodrug esters using the Caco-2 model: evaluation of ester hydrolysis and transepithelial transport. <i>International Journal of Pharmaceutics</i> , 1998, 166, 45-53.	2.6	58
42	Formulate-ability of ten compounds with different physicochemical profiles in SMEDDS. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 38, 479-488.	1.9	58
43	Supersaturation in human gastric fluids. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 184-189.	2.0	57
44	In Vitro Investigation of the Hepatobiliary Disposition Mechanisms of the Antifungal Agent Micafungin in Humans and Rats. <i>Drug Metabolism and Disposition</i> , 2010, 38, 1848-1856.	1.7	55
45	Influence of Drug Transport Proteins on the Pharmacokinetics and Drug Interactions of HIV Protease Inhibitors. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3636-3654.	1.6	55
46	Drug-induced cholestasis risk assessment in sandwich-cultured human hepatocytes. <i>Toxicology in Vitro</i> , 2016, 34, 179-186.	1.1	55
47	Determination of OATP-, NTCP- and OCT-mediated substrate uptake activities in individual and pooled batches of cryopreserved human hepatocytes. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 43, 297-307.	1.9	54
48	The conflict between in vitro release studies in human biorelevant media and the in vivo exposure in rats of the lipophilic compound fenofibrate. <i>International Journal of Pharmaceutics</i> , 2011, 414, 118-124.	2.6	52
49	Boosting of HIV Protease Inhibitors by Ritonavir in the Intestine: The Relative Role of Cytochrome P450 and P-Glycoprotein Inhibition Based on Caco-2 Monolayers versus In Situ Intestinal Perfusion in Mice. <i>Drug Metabolism and Disposition</i> , 2012, 40, 1473-1477.	1.7	52
50	Impact of Hypoalbuminemia on Voriconazole Pharmacokinetics in Critically Ill Adult Patients. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 6782-6789.	1.4	52
51	Human tissue-engineered skeletal muscle: a novel 3D in vitro model for drug disposition and toxicity after intramuscular injection. <i>Scientific Reports</i> , 2018, 8, 12206.	1.6	51
52	Transport, uptake, and metabolism of the bis(pivaloyloxymethyl)-ester prodrug of 9-(2-phosphonylmethoxyethyl)adenine in an in vitro cell culture system of the intestinal mucosa (Caco-2). <i>Pharmaceutical Research</i> , 1997, 14, 492-496.	1.7	48
53	The effect of macrophage and angiogenesis inhibition on the drug release and absorption from an intramuscular sustained-release paliperidone palmitate suspension. <i>Journal of Controlled Release</i> , 2016, 230, 95-108.	4.8	43
54	Drug disposition and clinical practice in neonates: Cross talk between developmental physiology and pharmacology. <i>International Journal of Pharmaceutics</i> , 2013, 452, 8-13.	2.6	42

#	ARTICLE	IF	CITATIONS
55	Evaluation of fasted and fed state simulated and human intestinal fluids as solvent system in the Ussing chambers model to explore food effects on intestinal permeability. <i>International Journal of Pharmaceutics</i> , 2015, 478, 736-744.	2.6	42
56	Exploring food effects on indinavir absorption with human intestinal fluids in the mouse intestine. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 27-32.	1.9	41
57	Human and simulated intestinal fluids as solvent systems to explore food effects on intestinal solubility and permeability. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 63, 178-186.	1.9	41
58	Confocal Imaging with a Fluorescent Bile Acid Analogue Closely Mimicking Hepatic Taurocholate Disposition. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1872-1881.	1.6	41
59	Toxicity and intracellular accumulation of bile acids in sandwich-cultured rat hepatocytes: Role of glycine conjugates. <i>Toxicology in Vitro</i> , 2014, 28, 218-230.	1.1	39
60	Physiologically Based Pharmacokinetic Modeling to Characterize Acetaminophen Pharmacokinetics and N-Acetyl-p-Benzoquinone Imine (NAPQI) Formation in Non-Pregnant and Pregnant Women. <i>Clinical Pharmacokinetics</i> , 2020, 59, 97-110.	1.6	38
61	Hydration Changes Implicated in the Remarkable Temperature-Dependent Membrane Permeation of Cyclosporin A. <i>Biochemistry</i> , 2000, 39, 7621-7630.	1.2	37
62	INTESTINAL PERFUSION WITH MESENTERIC BLOOD SAMPLING IN WILD-TYPE AND KNOCKOUT MICE. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1334-1337.	1.7	36
63	In Situ Intestinal Perfusion in Knockout Mice Demonstrates Inhibition of Intestinal P-Glycoprotein by Ritonavir Causing Increased Darunavir Absorption. <i>Drug Metabolism and Disposition</i> , 2010, 38, 1407-1410.	1.7	36
64	The Effect of Food on the Intraluminal Behavior of Abiraterone Acetate in Man. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 2974-2981.	1.6	36
65	Drug-induced Cholestasis: Mechanisms, Models, and Markers. <i>Current Drug Metabolism</i> , 2018, 19, 808-818.	0.7	36
66	Preventing release in the acidic environment of the stomach via occlusion in ordered mesoporous silica enhances the absorption of poorly soluble weakly acidic drugs. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4864-4876.	1.6	35
67	Effect of the Direct Oral Anticoagulants Rivaroxaban and Apixaban on the Disposition of Calcineurin Inhibitors in Transplant Recipients. <i>Therapeutic Drug Monitoring</i> , 2017, 39, 77-82.	1.0	35
68	Integration of Placental Transfer in a Fetal-Maternal Physiologically Based Pharmacokinetic Model to Characterize Acetaminophen Exposure and Metabolic Clearance in the Fetus. <i>Clinical Pharmacokinetics</i> , 2020, 59, 911-925.	1.6	35
69	In Vitro, Ex Vivo, and In Situ Intestinal Absorption Characteristics of the Antiviral Ester Prodrug Adefovir Dipivoxil. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 1054-1062.	1.6	34
70	Evaluation of fasted state human intestinal fluid as apical solvent system in the Caco-2 absorption model and comparison with FaSSIF. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 67, 126-135.	1.9	34
71	Integration and validation of the ex vivo human placenta perfusion model. <i>Journal of Pharmacological and Toxicological Methods</i> , 2017, 88, 25-31.	0.3	34
72	Omics-based responses induced by bosentan in human hepatoma HepaRG cell cultures. <i>Archives of Toxicology</i> , 2018, 92, 1939-1952.	1.9	34

#	ARTICLE	IF	CITATIONS
73	Pharmacokinetics of Posaconazole Oral Suspension in Children Dosed According to Body Surface Area. <i>Pediatric Infectious Disease Journal</i> , 2016, 35, 183-188.	1.1	33
74	Modeling the Time Course of the Tissue Responses to Intramuscular Long-acting Paliperidone Palmitate Nano-/Microcrystals and Polystyrene Microspheres in the Rat. <i>Toxicologic Pathology</i> , 2016, 44, 189-210.	0.9	33
75	Protein-Binding Characteristics of Voriconazole Determined by High-Throughput Equilibrium Dialysis. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2565-2570.	1.6	32
76	Physiologically Based Pharmacokinetic Predictions of Tramadol Exposure Throughout Pediatric Life: an Analysis of the Different Clearance Contributors with Emphasis on CYP2D6 Maturation. <i>AAPS Journal</i> , 2015, 17, 1376-1387.	2.2	32
77	Cellular Accumulation of Cholyl-Glycylamido-Fluorescein in Sandwich-Cultured Rat Hepatocytes: Kinetic Characterization, Transport Mechanisms, and Effect of Human Immunodeficiency Virus Protease Inhibitors. <i>Drug Metabolism and Disposition</i> , 2008, 36, 1315-1321.	1.7	31
78	Interaction of eight HIV protease inhibitors with the canalicular efflux transporter ABCC2 (MRP2) in sandwich-cultured rat and human hepatocytes. <i>Biopharmaceutics and Drug Disposition</i> , 2010, 31, 178-188.	1.1	31
79	PXR/CYP3A4-Humanized Mice for Studying Drug-Drug Interactions Involving Intestinal P-Glycoprotein. <i>Molecular Pharmaceutics</i> , 2013, 10, 1056-1062.	2.3	31
80	In Vitro Screening Models to Assess Intestinal Drug Absorption and Metabolism. , 2008, , 182-215.		30
81	Increased absorption of the antiviral ester prodrug tenofovir disoproxil in rat ileum by inhibiting its intestinal metabolism. <i>Drug Metabolism and Disposition</i> , 2000, 28, 1394-6.	1.7	30
82	Robustness testing and optimization of an adverse outcome pathway on cholestatic liver injury. <i>Archives of Toxicology</i> , 2020, 94, 1151-1172.	1.9	28
83	Evaluation of the potential of ion pair formation to improve the oral absorption of two potent antiviral compounds, AMD3100 and PMPA. <i>International Journal of Pharmaceutics</i> , 1999, 186, 127-136.	2.6	27
84	Antenatal sildenafil administration to prevent pulmonary hypertension in congenital diaphragmatic hernia (SToP-PH): study protocol for a phase I/IIb placenta transfer and safety study. <i>Trials</i> , 2018, 19, 524.	0.7	27
85	Solubility Profiling of HIV Protease Inhibitors in Human Intestinal Fluids. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 3800-3807.	1.6	26
86	A Physiology-Based Pharmacokinetic Framework to Support Drug Development and Dose Precision During Therapeutic Hypothermia in Neonates. <i>Frontiers in Pharmacology</i> , 2020, 11, 587.	1.6	26
87	Comparison of the Complexation between Methylprednisolone and Different Cyclodextrins in Solution by 1H-NMR and Molecular Modeling Studies. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 3863-3873.	1.6	25
88	Intestinal behavior of the ester prodrug tenofovir DF in humans. <i>International Journal of Pharmaceutics</i> , 2015, 485, 131-137.	2.6	25
89	Mechanisms and in vitro models of drug-induced cholestasis. <i>Archives of Toxicology</i> , 2019, 93, 1169-1186.	1.9	25
90	Comparative performance of oral midazolam clearance and plasma 4β -hydroxycholesterol to explain interindividual variability in tacrolimus clearance. <i>British Journal of Clinical Pharmacology</i> , 2016, 82, 1539-1549.	1.1	24

#	ARTICLE	IF	CITATIONS
91	Inhibition of intestinal metabolism of the antiviral ester prodrug bis(POC)-PMPA by nature-identical fruit extracts as a strategy to enhance its oral absorption: an in vitro study. <i>Pharmaceutical Research</i> , 1999, 16, 1035-1040.	1.7	23
92	Carrier mechanisms involved in the transepithelial transport of bis(POM)-PMEA and its metabolites across Caco-2 monolayers. <i>Pharmaceutical Research</i> , 1998, 15, 1168-1173.	1.7	22
93	Pharmacokinetics of caspofungin in a critically ill patient with liver cirrhosis. <i>European Journal of Clinical Pharmacology</i> , 2011, 67, 753-755.	0.8	22
94	Sildenafil crosses the placenta at therapeutic levels in a dually perfused human cotyledon model. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 219, 619.e1-619.e10.	0.7	22
95	Transplacental transport of paracetamol and its phase II metabolites using the ex vivo placenta perfusion model. <i>Toxicology and Applied Pharmacology</i> , 2019, 370, 14-23.	1.3	22
96	Posaconazole plasma exposure correlated to intestinal mucositis in allogeneic stem cell transplant patients. <i>European Journal of Clinical Pharmacology</i> , 2016, 72, 953-963.	0.8	21
97	Higher versus standard amikacin single dose in emergency department patients with severe sepsis and septic shock: a randomised controlled trial. <i>International Journal of Antimicrobial Agents</i> , 2018, 51, 562-570.	1.1	21
98	Connexin and Pannexin (Hemi)Channels: Emerging Targets in the Treatment of Liver Disease. <i>Hepatology</i> , 2019, 69, 1317-1323.	3.6	21
99	Current knowledge, challenges and innovations in developmental pharmacology: A combined connect4children Expert Group and European Society for Developmental, Perinatal and Paediatric Pharmacology White Paper. <i>British Journal of Clinical Pharmacology</i> , 2022, 88, 4965-4984.	1.1	21
100	Drug-induced cholestasis detection in cryopreserved rat hepatocytes in sandwich culture. <i>Journal of Pharmacological and Toxicological Methods</i> , 2015, 73, 63-71.	0.3	20
101	SLC22A1/OCT1 Genotype Affects O-desmethyltramadol Exposure in Newborn Infants. <i>Therapeutic Drug Monitoring</i> , 2016, 38, 487-492.	1.0	20
102	Approaches to Dose Finding in Neonates, Illustrating the Variability between Neonatal Drug Development Programs. <i>Pharmaceutics</i> , 2020, 12, 685.	2.0	20
103	Physiology-Based IVIVE Predictions of Tramadol from in Vitro Metabolism Data. <i>Pharmaceutical Research</i> , 2015, 32, 260-274.	1.7	19
104	Metabolism of the synthetic cannabinoids AMB-CHMICA and 5C-AKB48 in pooled human hepatocytes and rat hepatocytes analyzed by UHPLC-(IMS)-HR-MS E. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1083, 189-197.	1.2	19
105	A comprehensive review on non-clinical methods to study transfer of medication into breast milk – A contribution from the ConcePTION project. <i>Biomedicine and Pharmacotherapy</i> , 2021, 136, 111038.	2.5	19
106	Species-Specific Interaction of HIV Protease Inhibitors With Accumulation of Cholyl-Glycylamido-Fluorescein (CGamF) in Sandwich-Cultured Hepatocytes. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 2886-2898.	1.6	18
107	In vitro and in vivo investigation of the gastrointestinal behavior of simvastatin. <i>International Journal of Pharmaceutics</i> , 2016, 510, 296-303.	2.6	18
108	On the Role of Illness Duration and Nutrient Restriction in Cholestatic Alterations that Occur During Critical Illness. <i>Shock</i> , 2018, 50, 187-198.	1.0	18

#	ARTICLE	IF	CITATIONS
109	Primary Hepatocytes in Sandwich Culture. <i>Methods in Molecular Biology</i> , 2015, 1250, 175-188.	0.4	18
110	Validation of a differential <i>in situ</i> perfusion method with mesenteric blood sampling in rats for intestinal drug interaction profiling. <i>Biopharmaceutics and Drug Disposition</i> , 2010, 31, 278-285.	1.1	17
111	Age-Dependent Activity of the Uptake Transporters Ntcp and Oatp1b2 in Male Rat Hepatocytes: From Birth Till Adulthood. <i>Drug Metabolism and Disposition</i> , 2015, 43, 1-8.	1.7	17
112	Clearance Prediction of HIV Protease Inhibitors in Man: Role of Hepatic Uptake. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 854-863.	1.6	17
113	Relationship between In Vivo CYP3A4 Activity, CYP3A5 Genotype, and Systemic Tacrolimus Metabolite/Parent Drug Ratio in Renal Transplant Recipients and Healthy Volunteers. <i>Drug Metabolism and Disposition</i> , 2018, 46, 1507-1513.	1.7	17
114	Current insights in the complexities underlying drug-induced cholestasis. <i>Critical Reviews in Toxicology</i> , 2019, 49, 520-548.	1.9	17
115	Non-clinical Models to Determine Drug Passage into Human Breast Milk. <i>Current Pharmaceutical Design</i> , 2019, 25, 534-548.	0.9	17
116	The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. <i>Pharmaceutics</i> , 2021, 13, 44.	2.0	17
117	Multimodal non-linear optical imaging for the investigation of drug nano-/microcrystal-cell interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 338-348.	2.0	16
118	Effect of ABCB1 diplotype on tacrolimus disposition in renal recipients depends on CYP3A5 and CYP3A4 genotype. <i>Pharmacogenomics Journal</i> , 2017, 17, 556-562.	0.9	16
119	Investigation of Saliva as an Alternative to Plasma Monitoring of Voriconazole. <i>Clinical Pharmacokinetics</i> , 2015, 54, 1151-1160.	1.6	15
120	Metabolism and Excretion of RWJ-333369 [1,2-Ethanediol, 1-(2-Chlorophenyl)-, 2-carbamate, (S)-] in Mice, Rats, Rabbits, and Dogs. <i>Drug Metabolism and Disposition</i> , 2007, 35, 566-575.	1.7	14
121	MRP2 Inhibition by HIV Protease Inhibitors in Rat and Human Hepatocytes: A Quantitative Confocal Microscopy Study. <i>Drug Metabolism and Disposition</i> , 2018, 46, 697-703.	1.7	14
122	Non-canonical roles of connexins. <i>Progress in Biophysics and Molecular Biology</i> , 2020, 153, 35-41.	1.4	14
123	Meropenem Pharmacokinetics and Target Attainment in Critically Ill Patients Are Not Affected by Extracorporeal Membrane Oxygenation: A Matched Cohort Analysis. <i>Microorganisms</i> , 2021, 9, 1310.	1.6	14
124	Pretransplant 4 β -hydroxycholesterol does not predict tacrolimus exposure or dose requirements during the first days after kidney transplantation. <i>British Journal of Clinical Pharmacology</i> , 2017, 83, 2406-2415.	1.1	13
125	Primary hepatocytes and their cultures for the testing of drug-induced liver injury. <i>Advances in Pharmacology</i> , 2019, 85, 1-30.	1.2	13
126	Quantitative determination of colistin A/B and colistin methanesulfonate in biological samples using hydrophilic interaction chromatography tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2020, 12, 1183-1195.	1.6	13

#	ARTICLE	IF	CITATIONS
127	Cell Imaging Counting as a Novel Ex Vivo Approach for Investigating Drug-Induced Hepatotoxicity in Zebrafish Larvae. <i>International Journal of Molecular Sciences</i> , 2017, 18, 356.	1.8	12
128	Meropenem Target Attainment and Population Pharmacokinetics in Critically Ill Septic Patients with Preserved or Increased Renal Function. <i>Infection and Drug Resistance</i> , 2022, Volume 15, 53-62.	1.1	12
129	Site dependent intestinal absorption of darunavir and its interaction with ketoconazole. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 51-56.	1.9	11
130	Pharmacokinetic Profile of Voriconazole in a Critically Ill Patient on Therapeutic Plasma Exchange. <i>Therapeutic Drug Monitoring</i> , 2013, 35, 141-143.	1.0	11
131	Biomarkers of cholestasis. <i>Biomarkers in Medicine</i> , 2021, 15, 437-454.	0.6	11
132	Spatiotemporal imaging and pharmacokinetics of fluorescent compounds in zebrafish eleuthero-embryos after different routes of administration. <i>Scientific Reports</i> , 2021, 11, 12229.	1.6	11
133	Antihistamine use during breastfeeding with focus on breast milk transfer and safety in humans: A systematic literature review. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2022, 130, 171-181.	1.2	11
134	Comparison of the disposition of ester prodrugs of the antiviral agent 9-(2-phosphonylmethoxyethyl)adenine [PMEA] in Caco-2 monolayers. <i>Pharmaceutical Research</i> , 1998, 15, 239-245.	1.7	10
135	Verapamil hepatic clearance in four preclinical rat models: towards activity-based scaling. <i>Biopharmaceutics and Drug Disposition</i> , 2015, 36, 462-480.	1.1	10
136	Influence of formulation composition and process on the characteristics and in vitro release from PLGA-based sustained release injectables. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 90, 22-29.	2.0	10
137	Lipophilic nalmefene prodrugs to achieve a one-month sustained release. <i>Journal of Controlled Release</i> , 2016, 232, 196-202.	4.8	10
138	Fexofenadine, a Putative <i>In Vivo</i> P-glycoprotein Probe, Fails to Predict Clearance of the Substrate Tacrolimus in Renal Recipients. <i>Clinical Pharmacology and Therapeutics</i> , 2017, 102, 989-996.	2.3	10
139	Role of the OATP Transporter Family and a Benzbromarone-Sensitive Efflux Transporter in the Hepatocellular Disposition of Vincristine. <i>Pharmaceutical Research</i> , 2017, 34, 2336-2348.	1.7	10
140	Stability of Therapeutic Albumin Solutions Used for Molecular Adsorbent Recirculating System-Based Liver Dialysis. <i>Artificial Organs</i> , 2012, 36, 29-41.	1.0	9
141	Biopharmaceutical profiling of a pyrido[4,3-d] pyrimidine compound library. <i>International Journal of Pharmaceutics</i> , 2013, 455, 19-30.	2.6	9
142	Metabolism of the synthetic cannabinoid 5F-PY-PICA by human and rat hepatocytes and identification of biliary analytical targets by directional efflux in sandwich-cultured rat hepatocytes using UHPLC-HR-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 296-307.	1.4	9
143	Safety Assessment of Compounds after In Vitro Metabolic Conversion Using Zebrafish Eleuthero Embryos. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1712.	1.8	9
144	Cholestasis Differentially Affects Liver Connexins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6534.	1.8	9

#	ARTICLE	IF	CITATIONS
145	Pharmacokinetic/Pharmacodynamic Target Attainment Based on Measured versus Predicted Unbound Ceftriaxone Concentrations in Critically Ill Patients with Pneumonia: An Observational Cohort Study. <i>Antibiotics</i> , 2021, 10, 557.	1.5	9
146	A Population Pharmacokinetic Modeling and Simulation Study of Posaconazole Oral Suspension in Immunocompromised Pediatric Patients: A Short Communication. <i>Therapeutic Drug Monitoring</i> , 2021, 43, 512-518.	1.0	9
147	Unbound Ritonavir Concentrations in Rat and Human Hepatocytes. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2378-2387.	1.6	8
148	Novel natural and synthetic inhibitors of solute carriers SGLT1 and SGLT2. <i>Pharmacology Research and Perspectives</i> , 2019, 7, e00504.	1.1	8
149	Meropenem Stability in Human Plasma at $\sim 20\text{ }^{\circ}\text{C}$: Detailed Assessment of Degradation. <i>Antibiotics</i> , 2021, 10, 449.	1.5	8
150	Serum Creatinine Patterns in Neonates Treated with Therapeutic Hypothermia for Neonatal Encephalopathy. <i>Neonatology</i> , 2022, 119, 686-694.	0.9	8
151	Drug Transport in the Liver. , 0, , 359-410.		7
152	Comparison between 2-hydroxypropyl- β -cyclodextrin and 2-hydroxypropyl- γ -cyclodextrin for inclusion complex formation with danazol. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 71, 137-147.	1.6	7
153	Ordered Mesoporous Silica for the Delivery of Poorly Soluble Drugs. , 2011, , 203-219.		6
154	Extra collagen overlay prolongs the differentiated phenotype in sandwich-cultured rat hepatocytes. <i>Journal of Pharmacological and Toxicological Methods</i> , 2018, 90, 31-38.	0.3	6
155	Drug-induced cholestasis assay in primary hepatocytes. <i>MethodsX</i> , 2020, 7, 101080.	0.7	6
156	Glomerular Filtration Rate in Asphyxiated Neonates Under Therapeutic Whole-Body Hypothermia, Quantified by Mannitol Clearance. <i>Clinical Pharmacokinetics</i> , 2021, 60, 897-906.	1.6	6
157	Pharmacokinetics in Zebrafish Embryos (ZFE) Following Immersion and Intrayolk Administration: A Fluorescence-Based Analysis. <i>Pharmaceuticals</i> , 2021, 14, 576.	1.7	6
158	Ceftriaxone dosing based on the predicted probability of augmented renal clearance in critically ill patients with pneumonia. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, 77, 2479-2488.	1.3	6
159	In vivo evaluation of different formulation strategies for sustained release injectables of a poorly soluble HIV protease inhibitor. <i>Journal of Controlled Release</i> , 2015, 199, 1-9.	4.8	5
160	Hepatic Clearance Prediction of Nine Human Immunodeficiency Virus Protease Inhibitors in Rat. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 846-853.	1.6	5
161	Transport-Metabolism Interplay of Atazanavir in Rat Hepatocytes. <i>Drug Metabolism and Disposition</i> , 2016, 44, 389-397.	1.7	5
162	Biomarkers of propofol metabolism in neonates: the quest beyond ontogeny. <i>Biomarkers in Medicine</i> , 2017, 11, 933-936.	0.6	5

#	ARTICLE	IF	CITATIONS
163	Effect of Cryopreservation on Enzyme and Transporter Activities in Suspended and Sandwich Cultured Rat Hepatocytes. <i>AAPS Journal</i> , 2018, 20, 33.	2.2	5
164	Creatinine Trends and Patterns in Neonates Undergoing Whole Body Hypothermia: A Systematic Review. <i>Children</i> , 2021, 8, 475.	0.6	5
165	Concomitant Treatment with Voriconazole and Flucloxacillin: A Combination to Avoid. <i>Antibiotics</i> , 2021, 10, 1112.	1.5	5
166	Effect of Age on The Hepatocellularity Number for Wistar rats. <i>Drug Metabolism and Disposition</i> , 2016, 44, 944-947.	1.7	4
167	Strategies for Determining Correct Cytochrome P450 Contributions in Hepatic Clearance Predictions: In Vitroâ€“In Vivo Extrapolation as Modelling Approach and Tramadol as Proof-of Concept Compound. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2017, 42, 537-543.	0.6	4
168	Inter-Subject Variability in OCT1 Activity in 27 Batches of Cryopreserved Human Hepatocytes and Association with OCT1 mRNA Expression and Genotype. <i>Pharmaceutical Research</i> , 2017, 34, 1309-1319.	1.7	4
169	In vivo <sc>CYP</sc>3A4 activity does not predict the magnitude of interaction between itraconazole and tacrolimus from an extended release formulation. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2019, 124, 50-55.	1.2	4
170	Population pharmacokinetics of propofol in neonates and infants: Gestational and postnatal age to determine clearance maturation. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 2089-2097.	1.1	4
171	Letter to the Editor regarding: Ceftriaxone exposure in patients undergoing extracorporeal membrane oxygenation. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106326.	1.1	4
172	Pharmacokinetics and pharmacodynamics of sildenafil in fetal lambs on extracorporeal support. <i>Biomedicine and Pharmacotherapy</i> , 2021, 143, 112161.	2.5	4
173	Current and future physiologically based pharmacokinetic (PBPK) modeling approaches to optimize pharmacotherapy in preterm neonates. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 0, , 1-12.	1.5	4
174	High Speed HPLC Determination of <i>Bis</i>(Pivaloyloxymethyl)-PMEA and Its Degradation Products, Mono(POM)-PMEA and PMEA. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1996, 19, 2271-2283.	0.5	3
175	Hepatobiliary and intestinal elimination of darunavir in an integrated preclinical rat model. <i>Xenobiotica</i> , 2014, 44, 489-497.	0.5	3
176	Response to: â€˜Bodyweightâ€™ adjustments introduce significant correlations between CYP3A metrics and tacrolimus clearanceâ€™™. <i>British Journal of Clinical Pharmacology</i> , 2017, 83, 1353-1356.	1.1	3
177	LC-MS/MS Analysis of Bile Acids in In Vitro Samples. <i>Methods in Molecular Biology</i> , 2019, 1981, 15-23.	0.4	3
178	Detection of Drug-Induced Cholestasis Potential in Sandwich-Cultured Human Hepatocytes. <i>Methods in Molecular Biology</i> , 2019, 1981, 335-350.	0.4	3
179	A sensitive liquid chromatography method for analysis of propofol in small volumes of neonatal blood. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2020, 45, 128-133.	0.7	3
180	Quantification and Explanation of the Variability of First-Dose Amikacin Concentrations in Critically Ill Patients Admitted to the Emergency Department: A Population Pharmacokinetic Analysis. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2021, 46, 653-663.	0.6	3

#	ARTICLE	IF	CITATIONS
181	Determination of tacrolimus, three mono-demethylated metabolites and a M1 tautomer in human whole blood by liquid chromatography – tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 205, 114296.	1.4	3
182	QTc Intervals Are Prolonged in Late Preterm and Term Neonates during Therapeutic Hypothermia but Normalize Afterwards. <i>Children</i> , 2021, 8, 1153.	0.6	3
183	Synthesis and Early ADME Evaluation of a Novel Scaffold, Tetrahydro-6H-pyrido[3,2-b]azepin-6-one. <i>Synlett</i> , 2014, 25, 1443-1447.	1.0	2
184	In vitro disposition profiling of heterocyclic compounds. <i>International Journal of Pharmaceutics</i> , 2015, 491, 78-90.	2.6	2
185	Vesicle- and Hepatocyte-Based Assays for Identification of Drug Candidates Inhibiting BSEP Function. <i>Methods in Molecular Biology</i> , 2019, 1981, 55-73.	0.4	2
186	Development of a Pig Mammary Epithelial Cell Culture Model as a Non-Clinical Tool for Studying Epithelial Barrier – A Contribution from the IMI-ConcePTION Project. <i>Animals</i> , 2021, 11, 2012.	1.0	2
187	Bosentan alters endo- and exogenous bile salt disposition in sandwich-cultured human hepatocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 379, JPET-AR-2021-000695.	1.3	2
188	Predicting model – informed precision dosing: A test case in tacrolimus dose adaptation for kidney transplant recipients. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2022, , .	1.3	2
189	Identification of novel inhibitors of rat Mrp3. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 162, 105813.	1.9	1
190	Effects of Drugs Formerly Proposed for COVID-19 Treatment on Connexin43 Hemichannels. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5018.	1.8	1
191	Insights into mechanisms underlying inter-individual susceptibility to Drug-Induced-Liver-Injury (DILI) from data on in vitro exposure, transcriptomics and functionality of cryopreserved human primary hepatocytes: The example of chlorpromazine. <i>Toxicology Letters</i> , 2013, 221, S151.	0.4	0
192	Glycine Formation Drives Bile Acid Toxicity in Sandwich – Cultured Human Hepatocytes. <i>FASEB Journal</i> , 2018, 32, lb647.	0.2	0
193	Dynamic Culturing of Rat Hepatocytes in Sandwich – Configuration Enhances and Maintains Formation of Biliary Networks. <i>FASEB Journal</i> , 2018, 32, lb653.	0.2	0