Amin Rostami-Hodjegan

List of Publications by Year
in descending order

316	18,313	10373	19169
papers	citations	72 h-index	118 g-index

324	324	324	10398
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation and prediction of in vivo drug metabolism in human populations from in vitro data. Nature Reviews Drug Discovery, 2007, 6, 140-148.	21.5	471
2	The Simcyp^{Â®}Population-based ADME Simulator. Expert Opinion on Drug Metabolism and Toxicology, 2009, 5, 211-223.	1.5	438
3	Prediction of the Clearance of Eleven Drugs and Associated Variability in Neonates, Infants and Children. Clinical Pharmacokinetics, 2006, 45, 931-956.	1.6	437
4	Scaling Factors for the Extrapolation of In Vivo Metabolic Drug Clearance From In Vitro Data: Reaching a Consensus on Values of Human Micro-somal Protein and Hepatocellularity Per Gram of Liver. Current Drug Metabolism, 2007, 8, 33-45.	0.7	398
5	Population-Based Mechanistic Prediction of Oral Drug Absorption. AAPS Journal, 2009, 11, 225-237.	2.2	365
6	Prediction of Intestinal First-Pass Drug Metabolism. Current Drug Metabolism, 2007, 8, 676-684.	0.7	329
7	A Framework for Assessing Inter-individual Variability in Pharmacokinetics Using Virtual Human Populations and Integrating General Knowledge of Physical Chemistry, Biology, Anatomy, Physiology and Genetics: A Tale of â€˜Bottom-Upâ€™ vs â€˜Top-Downâ€™ Recognition of Covariates. Drug Metabolism and Pharmacokinetics, 2009, 24, 53-75.	1.1	311
8	The bisphosphonate, zoledronic acid, induces apoptosis of breast cancer cells: evidence for synergy with paclitaxel. British Journal of Cancer, 2001, 84, 1126-1134.	2.9	295
9	Changes in liver volume from birth to adulthood: A meta-analysis. Liver Transplantation, 2005, 11, 1481-1493.	1.3	280
10	Physiologically Based Pharmacokinetics Joined With In Vitroâ€“In Vivo Extrapolation of ADME: A Marriage Under the Arch of Systems Pharmacology. Clinical Pharmacology and Therapeutics, 2012, 92, 50-61.	2.3	278
11	Anatomical, Physiological and Metabolic Changes with Gestational Age during Normal Pregnancy. Clinical Pharmacokinetics, 2012, 51, 365-396.	1.6	274
12	Modified-Release Hydrocortisone to Provide Circadian Cortisol Profiles. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 1548-1554.	1.8	265
13	PBPK models for the prediction of in vivo performance of oral dosage forms. European Journal of Pharmaceutical Sciences, 2014, 57, 300-321.	1.9	263
14	Influence of Dose, Cigarette Smoking, Age, Sex, and Metabolic Activity on Plasma Clozapine Concentrations. Journal of Clinical Psychopharmacology, 2004, 24, 70-78.	0.7	229
15	In vivo methods for drug absorption â€“ Comparative physiologies, model selection, correlations with in vitro methods (IVIVC), and applications for formulation/API/excipient characterization including food effects. European Journal of Pharmaceutical Sciences, 2014, 57, 99-151.	1.9	226
16	Cytochrome P450 Turnover: Regulation of Synthesis and Degradation, Methods for Determining Rates, and Implications for the Prediction of Drug Interactions. Current Drug Metabolism, 2008, 9, 384-393.	0.7	220
17	Weight-related dosing, timing and monitoring hydrocortisone replacement therapy in patients with adrenal insufficiency. Clinical Endocrinology, 2004, 61, 367-375.	1.2	210
18	Prediction ofin vivodrug clearance fromin vitrodata. I: Impact of inter-individual variability. Xenobiotica, 2006, 36, 473-497.	0.5	209

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19	Predicting drug clearance from recombinantly expressed CYPs: intersystem extrapolation factors. Xenobiotica, 2004, 34, 151-178.	0.5	201
20	Combining the â€˜bottom upâ€™ and â€˜top downâ€™ approaches in pharmacokinetic modelling: fitting <scp>PBPK</scp> models to observed clinical data. British Journal of Clinical Pharmacology, 2015, 79, 48-55.	1.1	198
21	â€˜In silicoâ€™ simulations to assess the â€˜in vivoâ€™ consequences of â€˜in vitroâ€™ metabolic drugâ€“drug interactions. Drug Discovery Today: Technologies, 2004, 1, 441-448.	4.0	197
22	Expression of Hepatic Drug-Metabolizing Cytochrome P450 Enzymes and Their Intercorrelations: A Meta-Analysis. Drug Metabolism and Disposition, 2014, 42, 1349-1356.	1.7	179
23	A Semi-Mechanistic Model to Predict the Effects of Liver Cirrhosis on Drug Clearance. Clinical Pharmacokinetics, 2010, 49, 189-206.	1.6	178
24	Physiologically based mechanistic modelling to predict complex drugâ€“drug interactions involving simultaneous competitive and time-dependent enzyme inhibition by parent compound and its metabolite in both liver and gutâ€”The effect of diltiazem on the time-course of exposure to triazolam. European Journal of Pharmaceutical Sciences, 2010, 39, 298-309.	1.9	172
25	Why Has Modelâ€Informed Precision Dosing Not Yet Become Common Clinical Reality? Lessons From the Past and a Roadmap for the Future. Clinical Pharmacology and Therapeutics, 2017, 101, 646-656.	2.3	169
26	Interplay of Metabolism and Transport in Determining Oral Drug Absorption and Gut Wall Metabolism: A Simulation Assessment Using the “Advanced Dissolution, Absorption, Metabolism (ADAM)” Model. Current Drug Metabolism, 2010, 11, 716-729.	0.7	160
27	Animal versus human oral drug bioavailability: Do they correlate?. European Journal of Pharmaceutical Sciences, 2014, 57, 280-291.	1.9	157
28	Inter-individual variability in levels of human microsomal protein and hepatocellularity per gram of liver. British Journal of Clinical Pharmacology, 2003, 56, 433-440.	1.1	154
29	Misuse of the Well-Stirred Model of Hepatic Drug Clearance: Fig. 1.. Drug Metabolism and Disposition, 2007, 35, 501-502.	1.7	153
30	Sequence- and schedule-dependent enhancement of zoledronic acid induced apoptosis by doxorubicin in breast and prostate cancer cells. International Journal of Cancer, 2005, 113, 364-371.	2.3	152
31	Meta-Analysis of the Turnover of Intestinal Epithelia in Preclinical Animal Species and Humans. Drug Metabolism and Disposition, 2014, 42, 2016-2022.	1.7	146
32	Resurgence in the use of physiologically based pharmacokinetic models in pediatric clinical pharmacology: parallel shift in incorporating the knowledge of biological elements and increased applicability to drug development and clinical practice. Paediatric Anaesthesia, 2011, 21, 291-301.	0.6	143
33	Simultaneous Quantification of the Abundance of Several Cytochrome P450 and Uridine 5â€²-Diphospho-Glucuronosyltransferase Enzymes in Human Liver Microsomes Using Multiplexed Targeted Proteomics. Drug Metabolism and Disposition, 2014, 42, 500-510.	1.7	143
34	Modeling and predicting drug pharmacokinetics in patients with renal impairment. Expert Review of Clinical Pharmacology, 2011, 4, 261-274.	1.3	138
35	Critique of the Two-Fold Measure of Prediction Success for Ratios: Application for the Assessment of Drug-Drug Interactions. Drug Metabolism and Disposition, 2011, 39, 170-173.	1.7	137
36	A Mechanistic Framework for In Vitroâ€“In Vivo Extrapolation of Liver Membrane Transporters: Prediction of Drugâ€“Drug Interaction Between Rosuvastatin and Cyclosporine. Clinical Pharmacokinetics, 2014, 53, 73-87.	1.6	136

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37	A Critical Evaluation of the Experimental Design of Studies of Mechanism Based Enzyme Inhibition, with Implications for In Vitro-In Vivo Extrapolation. Current Drug Metabolism, 2006, 7, 315-334.	0.7	130
38	Caffeine urinary metabolite ratios as markers of enzyme activity: a theoretical assessment. Pharmacogenetics and Genomics, 1996, 6, 121-149.	5.7	118
39	Does age affect gastric emptying time? A modelâ€based metaâ€analysis of data from premature neonates through to adults. Biopharmaceutics and Drug Disposition, 2015, 36, 245-257.	1.1	116
40	Deciding on Success Criteria for Predictability of Pharmacokinetic Parameters from In Vitro Studies: An Analysis Based on In Vivo Observations. Drug Metabolism and Disposition, 2014, 42, 1478-1484.	1.7	113
41	Covariation of Human Microsomal Protein Per Gram of Liver with Age: Absence of Influence of Operator and Sample Storage May Justify Interlaboratory Data Pooling. Drug Metabolism and Disposition, 2008, 36, 2405-2409.	1.7	104
42	A pregnancy physiologically based pharmacokinetic (pâ€<scp>PBPK</scp>) model for disposition of drugs metabolized by <scp>CYP1A2</scp>, <scp>CYP2D6</scp> and <scp>CYP3A4</scp>. British Journal of Clinical Pharmacology, 2012, 74, 873-885.	1.1	104
43	Variability in Mass Spectrometry-based Quantification of Clinically Relevant Drug Transporters and Drug Metabolizing Enzymes. Molecular Pharmaceutics, 2017, 14, 3142-3151.	2.3	102
44	A Re-evaluation and Validation of Ontogeny Functions for Cytochrome P450 1A2 and 3A4 Based on In Vivo Data. Clinical Pharmacokinetics, 2014, 53, 625-636.	1.6	101
45	Meta-analysis of studies of the CYP2D6 polymorphism in relation to lung cancer and Parkinson??s disease. Pharmacogenetics and Genomics, 1998, 8, 227-238.	5.7	100
46	Population pharmacokinetics of methadone in opiate users: characterization of timeâ€dependent changes. British Journal of Clinical Pharmacology, 1999, 48, 43-52.	1.1	97
47	Absolute abundance and function of intestinal drug transporters: a prerequisite for fully mechanistic in vitroâ€“in vivo extrapolation of oral drug absorption. Biopharmaceutics and Drug Disposition, 2013, 34, 2-28.	1.1	96
48	Prediction of time-dependent CYP3A4 drugâ€“drug interactions by physiologically based pharmacokinetic modelling: Impact of inactivation parameters and enzyme turnover. European Journal of Pharmaceutical Sciences, 2011, 43, 160-173.	1.9	95
49	Systems Toxicology: Real World Applications and Opportunities. Chemical Research in Toxicology, 2017, 30, 870-882.	1.7	93
50	Metformin and cimetidine: Physiologically based pharmacokinetic modelling to investigate transporter mediated drugâ€“drug interactions. European Journal of Pharmaceutical Sciences, 2016, 88, 70-82.	1.9	92
51	The pharmacokinetics of methadone in healthy subjects and opiate users. British Journal of Clinical Pharmacology, 1997, 44, 325-334.	1.1	91
52	The Simcyp Population Based Simulator: Architecture, Implementation, and Quality Assurance. In Silico Pharmacology, 2013, 1, 9.	1.8	91
53	Expansion of a PBPK model to predict disposition in pregnant women of drugs cleared via multiple CYP enzymes, including CYP2B6, CYP2C9 and CYP2C19. British Journal of Clinical Pharmacology, 2014, 77, 554-570.	1.1	91
54	Oral biopharmaceutics tools â€“ Time for a new initiative â€“ An introduction to the IMI project OrBiTo. European Journal of Pharmaceutical Sciences, 2014, 57, 292-299.	1.9	91

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55	MECHANISM-BASED INACTIVATION OF CYP2D6 BY METHYLENEDIOXYMETHAMPHETAMINE. Drug Metabolism and Disposition, 2004, 32, 1213-1217.	1.7	90
56	The Proton Pump Inhibitor, Omeprazole, but Not Lansoprazole or Pantoprazole, Is a Metabolism-Dependent Inhibitor of CYP2C19: Implications for Coadministration with Clopidogrel. Drug Metabolism and Disposition, 2011, 39, 2020-2033.	1.7	90
57	Prediction of metabolic drug clearance in humans:In vitroâ€“in vivoextrapolationvsallometric scaling. Xenobiotica, 2006, 36, 567-580.	0.5	88
58	Comparison of the rates of disintegration, gastric emptying, and drug absorption following administration of a new and a conventional paracetamol formulation, using gamma scintigraphy. Pharmaceutical Research, 2003, 20, 1668-1673.	1.7	86
59	Allometric Scaling of Clearance in Paediatric Patients: When Does the Magic of 0.75 Fade?. Clinical Pharmacokinetics, 2017, 56, 273-285.	1.6	86
60	Proteomic Quantification of Human Bloodâ€“Brain Barrier SLC and ABC Transporters in Healthy Individuals and Dementia Patients. Molecular Pharmaceutics, 2019, 16, 1220-1233.	2.3	85
61	Prediction ofin vivodrug clearance fromin vitrodata. II: Potential inter-ethnic differences. Xenobiotica, 2006, 36, 499-513.	0.5	83
62	Circadian hydrocortisone infusions in patients with adrenal insufficiency and congenital adrenal hyperplasia. Clinical Endocrinology, 2006, 65, 45-50.	1.2	83
63	Changes to methadone clearance during pregnancy. European Journal of Clinical Pharmacology, 2005, 61, 763-768.	0.8	82
64	Cytochrome P450 Pig Liver Pie: Determination of Individual Cytochrome P450 Isoform Contents in Microsomes from Two Pig Livers Using Liquid Chromatography in Conjunction with Mass Spectrometry. Drug Metabolism and Disposition, 2011, 39, 2130-2134.	1.7	82
65	A Physiologically Based Pharmacokinetic Modeling Approach to Predict Diseaseâ€“Drug Interactions: Suppression of CYP3A by IL-6. Clinical Pharmacology and Therapeutics, 2013, 94, 260-268.	2.3	82
66	Prediction of Drug-Drug Interactions Arising from CYP3A induction Using a Physiologically Based Dynamic Model. Drug Metabolism and Disposition, 2016, 44, 821-832.	1.7	80
67	Modifiedâ€release hydrocortisone for circadian therapy: a proofâ€ofâ€principle study in dexamethasoneâ€suppressed normal volunteers. Clinical Endocrinology, 2008, 68, 130-135.	1.2	79
68	A PBPK Model to Predict Disposition of CYP3Aâ€Metabolized Drugs in Pregnant Women: Verification and Discerning the Site of CYP3A Induction. CPT: Pharmacometrics and Systems Pharmacology, 2012, 1, 1-10.	1.3	78
69	A Physiologically Based Pharmacokinetic Model to Predict Disposition of CYP2D6 and CYP1A2 Metabolized Drugs in Pregnant Women. Drug Metabolism and Disposition, 2013, 41, 801-813.	1.7	78
70	Cytochrome P450 3A expression and activity in the human small intestine. Clinical Pharmacology and Therapeutics, 2004, 76, 391-391.	2.3	77
71	Implications of mechanism-based inhibition of CYP2D6 for the pharmacokinetics and toxicity of MDMA. Journal of Psychopharmacology, 2006, 20, 842-849.	2.0	77
72	Toward a Consensus on Applying Quantitative Liquid Chromatographyâ€Tandem Mass Spectrometry Proteomics in Translational Pharmacology Research: A White Paper. Clinical Pharmacology and Therapeutics, 2019, 106, 525-543.	2.3	77

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73	Pharmacometrics in Pregnancy: An Unmet Need. Annual Review of Pharmacology and Toxicology, 2014, 54, 53-69.	4.2	76
74	Meta-Analysis of Expression of Hepatic Organic Anionâ€“Transporting Polypeptide (OATP) Transporters in Cellular Systems Relative to Human Liver Tissue. Drug Metabolism and Disposition, 2015, 43, 424-432.	1.7	75
75	Towards a Quantitative Framework for the Prediction of DDIs Arising from Cytochrome P450 Induction. Current Drug Metabolism, 2009, 10, 420-432.	0.7	74
76	Model-Informed Precision Dosing: Background, Requirements, Validation, Implementation, and Forward Trajectory of Individualizing Drug Therapy. Annual Review of Pharmacology and Toxicology, 2021, 61, 225-245.	4.2	74
77	Quantitative Proteomics of Clinically Relevant Drug-Metabolizing Enzymes and Drug Transporters and Their Intercorrelations in the Human Small Intestine. Drug Metabolism and Disposition, 2020, 48, 245-254.	1.7	73
78	Changes in Individual Drug-Independent System Parameters during Virtual Paediatric Pharmacokinetic Trials: Introducing Time-Varying Physiology into a Paediatric PBPK Model. AAPS Journal, 2014, 16, 568-576.	2.2	72
79	Reverse Translation in PBPK and QSP: Going Backwards in Order to Go Forward With Confidence. Clinical Pharmacology and Therapeutics, 2018, 103, 224-232.	2.3	71
80	Mechanism-based inactivation of human cytochrome P450 enzymes: strategies for diagnosis and drugâ€“drug interaction risk assessment. Xenobiotica, 2007, 37, 1225-1256.	0.5	70
81	Application of a Systems Approach to the Bottom-Up Assessment of Pharmacokinetics in Obese Patients. Clinical Pharmacokinetics, 2011, 50, 809-822.	1.6	70
82	Physiologicalâ€based pharmacokinetic modeling trends in pharmaceutical drug development over the last 20â€years; inâ€depth analysis of applications, organizations, and platforms. Biopharmaceutics and Drug Disposition, 2021, 42, 107-117.	1.1	69
83	Development of CYP2D6 and CYP3A4 in the First Year of Life. Clinical Pharmacology and Therapeutics, 2008, 83, 670-671.	2.3	68
84	Assessment of algorithms for predicting drugâ€“drug interactions via inhibition mechanisms: comparison of dynamic and static models. British Journal of Clinical Pharmacology, 2011, 71, 72-87.	1.1	65
85	Quantification of Proteins Involved in Drug Metabolism and Disposition in the Human Liver Using Label-Free Global Proteomics. Molecular Pharmaceutics, 2019, 16, 632-647.	2.3	65
86	Application of a Physiologically Based Pharmacokinetic Model to Predict OATP1B1â€Related Variability in Pharmacodynamics of Rosuvastatin. CPT: Pharmacometrics and Systems Pharmacology, 2014, 3, 1-9.	1.3	64
87	Precision dosing in clinical medicine: present and future. Expert Review of Clinical Pharmacology, 2018, 11, 743-746.	1.3	60
88	Methodologies for Investigating Drug Metabolism at the Early Drug Discovery Stage: Prediction of Hepatic Drug Clearance and P450 Contribution. Current Drug Metabolism, 2010, 11, 678-685.	0.7	59
89	Identification and quantification of bloodâ€“brain barrier transporters in isolated rat brain microvessels. Journal of Neurochemistry, 2018, 146, 670-685.	2.1	59
90	Kinetic values for mechanism-based enzyme inhibition: Assessing the bias introduced by the conventional experimental protocol. European Journal of Pharmaceutical Sciences, 2005, 26, 334-340.	1.9	58

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91	The Pharmacokinetics of the CYP3A Substrate Midazolam in Morbidly Obese Patients Before and One Year After Bariatric Surgery. Pharmaceutical Research, 2015, 32, 3927-3936.	1.7	58
92	IMI â€“ Oral biopharmaceutics tools project â€“ Evaluation of bottom-up PBPK prediction success part 2: An introduction to the simulation exercise and overview of results. European Journal of Pharmaceutical Sciences, 2017, 96, 610-625.	1.9	58
93	Delineating the Role of Various Factors in Renal Disposition of Digoxin through Application of Physiologically Based Kidney Model to Renal Impairment Populations. Journal of Pharmacology and Experimental Therapeutics, 2017, 360, 484-495.	1.3	56
94	Contribution of midazolam and its 1-hydroxy metabolite to preoperative sedation in children: a pharmacokinetic-pharmacodynamic analysis. British Journal of Anaesthesia, 2002, 89, 428-437.	1.5	55
95	Contribution of the activities of CYP3A, CYP2D6, CYP1A2 and other potential covariates to the disposition of methadone in patients undergoing methadone maintenance treatment. British Journal of Clinical Pharmacology, 2009, 67, 29-37.	1.1	55
96	Identification of the Effect of Multiple Polymorphisms on the Pharmacokinetics of Simvastatin and Simvastatin Acid Using a Population-Modeling Approach. Clinical Pharmacology and Therapeutics, 2014, 96, 90-100.	2.3	55
97	Development of a permeability-limited model of the human brain and cerebrospinal fluid (CSF) to integrate known physiological and biological knowledge: Estimating time varying CSF drug concentrations and their variability using inÂvitro data. Drug Metabolism and Pharmacokinetics, 2016, 31, 224-233.	1.1	54
98	Liquid Biopsy Enables Quantification of the Abundance and Interindividual Variability of Hepatic Enzymes and Transporters. Clinical Pharmacology and Therapeutics, 2021, 109, 222-232.	2.3	54
99	Age Related Changes in Fractional Elimination Pathways for Drugs: Assessing the Impact of Variable Ontogeny on Metabolic Drug-Drug Interactions. Journal of Clinical Pharmacology, 2013, 53, 857-865.	1.0	53
100	Application of permeability-limited physiologically-based pharmacokinetic models: Part Iâ€“digoxin pharmacokinetics incorporating P-glycoprotein-mediated efflux. Journal of Pharmaceutical Sciences, 2013, 102, 3145-3160.	1.6	53
101	Application of an LCâ€“MS/MS method for the simultaneous quantification of human intestinal transporter proteins absolute abundance using a QconCAT technique. Journal of Pharmaceutical and Biomedical Analysis, 2015, 110, 27-33.	1.4	53
102	Systematic and quantitative assessment of the effect of chronic kidney disease on CYP2D6 and CYP3A4/5. Clinical Pharmacology and Therapeutics, 2016, 100, 75-87.	2.3	53
103	Prediction of olanzapine exposure in individual patients using physiologically based pharmacokinetic modelling and simulation. British Journal of Clinical Pharmacology, 2018, 84, 462-476.	1.1	53
104	Prediction of Concentrationâ€“Time Profile and its Inter-Individual Variability following the Dermal Drug Absorption. Journal of Pharmaceutical Sciences, 2012, 101, 2584-2595.	1.6	52
105	Alternative Fusion Protein Strategies to Express Recalcitrant QconCAT Proteins for Quantitative Proteomics of Human Drug Metabolizing Enzymes and Transporters. Journal of Proteome Research, 2013, 12, 5934-5942.	1.8	52
106	Development and Application of a Mechanistic Pharmacokinetic Model for Simvastatin and its Active Metabolite Simvastatin Acid Using an Integrated Population PBPK Approach. Pharmaceutical Research, 2015, 32, 1864-1883.	1.7	52
107	Predicting drugâ€“drug interactions: application of physiologically based pharmacokinetic models under a systems biology approach. Expert Review of Clinical Pharmacology, 2013, 6, 143-157.	1.3	51
108	Population-based pharmacokinetic approach for methadone monitoring of opiate addicts: potential clinical utility. Addiction, 2000, 95, 1771-1783.	1.7	50

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109	Monitoring plasma concentrations to individualize treatment with clomiphene citrate. Fertility and Sterility, 2004, 81, 1187-1193.	0.5	50
110	Sources of interindividual variability in IVIVE of clearance: an investigation into the prediction of benzodiazepine clearance using a mechanistic population-based pharmacokinetic model. Xenobiotica, 2011, 41, 623-638.	0.5	50
111	Application of permeabilityâ€limited physiologically-based pharmacokinetic models: Part II-prediction of pâ€glycoprotein mediated drugâ€“drug interactions with digoxin. Journal of Pharmaceutical Sciences, 2013, 102, 3161-3173.	1.6	50
112	In Vitro-In Vivo Extrapolation Scaling Factors for Intestinal P-Glycoprotein and Breast Cancer Resistance Protein: Part I: A Cross-Laboratory Comparison of Transporter-Protein Abundances and Relative Expression Factors in Human Intestine and Caco-2 Cells. Drug Metabolism and Disposition, 2016, 44, 297-307.	1.7	50
113	The Consequences of 3,4-Methylenedioxymethamphetamine Induced CYP2D6 Inhibition in Humans. Journal of Clinical Psychopharmacology, 2008, 28, 523-529.	0.7	49
114	A mechanistic pharmacokinetic model to assess modified oral drug bioavailability post bariatric surgery in morbidly obese patients: interplay between CYP3A gut wall metabolism, permeability and dissolution. Journal of Pharmacy and Pharmacology, 2012, 64, 1008-1024.	1.2	47
115	Physiologically Based Pharmacokinetics Is Impacting Drug Development and Regulatory Decision Making. CPT: Pharmacometrics and Systems Pharmacology, 2015, 4, 313-315.	1.3	47
116	Quantitative ADME Proteomics â€“ CYP and UGT Enzymes in the Beagle Dog Liver and Intestine. Pharmaceutical Research, 2015, 32, 74-90.	1.7	47
117	Virtual bioequivalence for achlorhydric subjects: The use of PBPK modelling to assess the formulation-dependent effect of achlorhydria. European Journal of Pharmaceutical Sciences, 2017, 109, 111-120.	1.9	47
118	Applications of linking PBPK and PD models to predict the impact of genotypic variability, formulation differences, differences in target binding capacity and target site drug concentrations on drug responses and variability. Frontiers in Pharmacology, 2014, 5, 258.	1.6	46
119	Gut Wall Metabolism. Application of Pre-Clinical Models for the Prediction of Human Drug Absorption and First-Pass Elimination. AAPS Journal, 2016, 18, 589-604.	2.2	46
120	Physiologically based pharmacokinetic modelling to guide drug delivery in older people. Advanced Drug Delivery Reviews, 2018, 135, 85-96.	6.6	46
121	The antitussive effect of dextromethorphan in relation to CYP2D6 activity. British Journal of Clinical Pharmacology, 1999, 48, 382-387.	1.1	45
122	Trends in oral drug bioavailability following bariatric surgery: examining the variable extent of impact on exposure of different drug classes. British Journal of Clinical Pharmacology, 2012, 74, 774-787.	1.1	45
123	Accounting for Transporters in Renal Clearance: Towards a Mechanistic Kidney Model (Mech KiM). AAPS Advances in the Pharmaceutical Sciences Series, 2013, , 155-177.	0.2	45
124	In-vivo indices of enzyme activity. Pharmacogenetics and Genomics, 1999, 9, 277-286.	5.7	44
125	A New Rapidly Absorbed Paracetamol Tablet Containing Sodium Bicarbonate. I. A Four-Way Crossover Study to Compare the Concentrationâ€“Time Profile of Paracetamol from the New Paracetamol/Sodium Bicarbonate Tablet and a Conventional Paracetamol Tablet in Fed and Fasted Volunteers. Drug Development and Industrial Pharmacy, 2002, 28, 523-531.	0.9	44
126	Physiologically-based Pharmacokinetic (PBPK) Models for Assessing the Kinetics of Xenobiotics during Pregnancy: Achievements and Shortcomings. Current Drug Metabolism, 2012, 13, 695-720.	0.7	44

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127	Protein expression of various hepatic uridine 5â€²â€diphosphate glucuronosyltransferase (UGT) enzymes and their interâ€correlations: a metaâ€analysis. Biopharmaceutics and Drug Disposition, 2014, 35, 353-361.	1.1	44
128	Novel minimal physiologically-based model for the prediction of passive tubular reabsorption and renal excretion clearance. European Journal of Pharmaceutical Sciences, 2016, 94, 59-71.	1.9	44
129	Sensitivity of Indirect Metrics for Assessing â€œRateâ€in Bioequivalence Studiesâ€"Moving the â€œGoalpostsâ€ or Changing the â€œGameâ€. Journal of Pharmaceutical Sciences, 1994, 83, 1554-1557.	1.6	43
130	Application of the MechPeff model to predict passive effective intestinal permeability in the different regions of the rodent small intestine and colon. Biopharmaceutics and Drug Disposition, 2017, 38, 94-114.	1.1	42
131	Global Proteomic Analysis of Human Liver Microsomes: Rapid Characterization and Quantification of Hepatic Drug-Metabolizing Enzymes. Drug Metabolism and Disposition, 2017, 45, 666-675.	1.7	42
132	The use of mechanistic DM-PK-PD modelling to assess the power of pharmacogenetic studies ? CYP2C9 and warfarin as an example. British Journal of Clinical Pharmacology, 2007, 64, 14-26.	1.1	41
133	IMI â€“ Oral biopharmaceutics tools project â€“ Evaluation of bottom-up PBPK prediction success part 3: Identifying gaps in system parameters by analysing In Silico performance across different compound classes. European Journal of Pharmaceutical Sciences, 2017, 96, 626-642.	1.9	41
134	The Use of Tolbutamide-Induced Hypoglycemia to Examine the Intraislet Role of Insulin in Mediating Glucagon Release in Normal Humans*. Journal of Clinical Endocrinology and Metabolism, 1997, 82, 1458-1461.	1.8	40
135	The effects of dose staggering on metabolic drugâ€“drug interactions. European Journal of Pharmaceutical Sciences, 2003, 20, 223-232.	1.9	40
136	Quantitative Characterization of Major Hepatic UDP-Glucuronosyltransferase Enzymes in Human Liver Microsomes: Comparison of Two Proteomic Methods and Correlation with Catalytic Activity. Drug Metabolism and Disposition, 2017, 45, 1102-1112.	1.7	40
137	A discordance between cytochrome P450 2D6 genotype and phenotype in patients undergoing methadone maintenance treatment. British Journal of Clinical Pharmacology, 2003, 56, 220-224.	1.1	39
138	Incorporating In Vitro Information on Drug Metabolism Into Clinical Trial Simulations to Assess the Effect of CYP2D6 Polymorphism on Pharmacokinetics and Pharmacodynamics: Dextromethorphan as a Model Application. Journal of Clinical Pharmacology, 2007, 47, 175-186.	1.0	39
139	Quantitative prediction of formulation-specific food effects and their population variability from in vitro data with the physiologically-based ADAM model: A case study using the BCS/BDDCS Class II drug nifedipine. European Journal of Pharmaceutical Sciences, 2014, 57, 240-249.	1.9	39
140	A proposal for scientific framework enabling specific population drug dosing recommendations. Journal of Clinical Pharmacology, 2015, 55, 1073-1078.	1.0	39
141	Physiologically based modelling of inhibition of metabolism and assessment of the relative potency of drug and metabolite: dextromethorphan vs . dextrorphan using quinidine inhibition. British Journal of Clinical Pharmacology, 2003, 56, 57-67.	1.1	38
142	Do Children Have the Same Vulnerability to Metabolic Drugâ€“Drug Interactions as Adults? A Critical Analysis of the Literature. Journal of Clinical Pharmacology, 2013, 53, 559-566.	1.0	38
143	Key to Opening Kidney for In Vitroâ€“In Vivo Extrapolation Entrance in Health and Disease: Part I: In Vitro Systems and Physiological Data. AAPS Journal, 2016, 18, 1067-1081.	2.2	38
144	Virtual Twins: Understanding the Data Required for Modelâ€Informed Precision Dosing. Clinical Pharmacology and Therapeutics, 2020, 107, 742-745.	2.3	38

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145	Determination of drug-metabolizing enzyme activity in vivo : pharmacokinetic and statistical issues. Xenobiotica, 1998, 28, 1255-1273.	0.5	36
146	Contribution of dihydrocodeine and dihydromorphine to analgesia following dihydrocodeine administration in man: a PK-PD modelling analysis. British Journal of Clinical Pharmacology, 2001, 52, 35-43.	1.1	36
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