

R Scott Obach

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

5,837
citations

186265

28
h-index

182427

51
g-index

54
all docs

54
docs citations

54
times ranked

5481
citing authors

#	ARTICLE	IF	CITATIONS
1	Disposition of Nirmatrelvir, an Orally Bioavailable Inhibitor of SARS-CoV-2 3C-Like Protease, across Animals and Humans. <i>Drug Metabolism and Disposition</i> , 2022, 50, 576-590.	3.3	64
2	Metabolism and Excretion of Nirmatrelvir in Humans Using Quantitative Fluorine Nuclear Magnetic Resonance Spectroscopy: A Novel Approach for Accelerating Drug Development. <i>Clinical Pharmacology and Therapeutics</i> , 2022, 112, 1201-1206.	4.7	15
3	Production of active recombinant human aldehyde oxidase (AOX) in the baculovirus expression vector system (BEVS) and deployment in a pre-clinical fraction-of-control AOX compound exposure assay. <i>Protein Expression and Purification</i> , 2021, 177, 105749.	1.3	3
4	Cytochrome P450 3A Time-Dependent Inhibition Assays Are Too Sensitive for Identification of Drugs Causing Clinically Significant Drug-Drug Interactions: A Comparison of Human Liver Microsomes and Hepatocytes and Definition of Boundaries for Inactivation Rate Constants. <i>Drug Metabolism and Disposition</i> , 2021, 49, 442-450.	3.3	15
5	Development of Robust Quantitative Structure-Activity Relationship Models for CYP2C9, CYP2D6, and CYP3A4 Catalysis and Inhibition. <i>Drug Metabolism and Disposition</i> , 2021, 49, 822-832.	3.3	14
6	Static and Dynamic Projections of Drug-Drug Interactions Caused by Cytochrome P450 3A Time-Dependent Inhibitors Measured in Human Liver Microsomes and Hepatocytes. <i>Drug Metabolism and Disposition</i> , 2021, 49, 947-960.	3.3	17
7	Consideration of the Unbound Drug Concentration in Enzyme Kinetics. <i>Methods in Molecular Biology</i> , 2021, 2342, 113-145.	0.9	2
8	An oral SARS-CoV-2 M ^{pro} inhibitor clinical candidate for the treatment of COVID-19. <i>Science</i> , 2021, 374, 1586-1593.	12.6	1,074
9	Enzalutamide and Apalutamide: In Vitro Chemical Reactivity Studies and Activity in a Mouse Drug Allergy Model. <i>Chemical Research in Toxicology</i> , 2020, 33, 211-222.	3.3	31
10	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.	2.2	6
11	Mechanistic insights on clearance and inhibition discordance between liver microsomes and hepatocytes when clearance in liver microsomes is higher than in hepatocytes. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 155, 105541.	4.0	22
12	Late-Stage Lead Diversification Coupled with Quantitative Nuclear Magnetic Resonance Spectroscopy to Identify New Structure-Activity Relationship Vectors at Nanomole-Scale Synthesis: Application to Loratadine, a Human Histamine H ₁ Receptor Inverse Agonist. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 7268-7292.	6.4	21
13	Effective Application of Metabolite Profiling in Drug Design and Discovery. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6387-6406.	6.4	25
14	Prediction of Metabolite-Parent Drug Exposure: Derivation and Application of a Mechanistic Static Model. <i>Clinical and Translational Science</i> , 2020, 13, 520-528.	3.1	3
15	Role of Molybdenum-Containing Enzymes in the Biotransformation of the Novel Ghrelin Receptor Inverse Agonist PF-5190457: A Reverse Translational Bed-to-Bench Approach. <i>Drug Metabolism and Disposition</i> , 2019, 47, 874-882.	3.3	11
16	Late-Stage Microsomal Oxidation Reduces Drug-Drug Interaction and Identifies Phosphodiesterase 2A Inhibitor PF-06815189. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 68-72.	2.8	31
17	Metabolism of a 5HT ₆ Antagonist, 2-Methyl-1-(Phenylsulfonyl)-4-(Piperazin-1-yl)-1H-Benzo[d]imidazole (SAM-760): Impact of Sulfonamide Metabolism on Diminution of a Ketoconazole-Mediated Clinical Drug-Drug Interaction. <i>Drug Metabolism and Disposition</i> , 2018, 46, 934-942.	3.3	7
18	Lead Diversification at the Nanomole Scale Using Liver Microsomes and Quantitative Nuclear Magnetic Resonance Spectroscopy: Application to Phosphodiesterase 2 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3626-3640.	6.4	25

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19	Trend Analysis of a Database of Intravenous Pharmacokinetic Parameters in Humans for 1352 Drug Compounds. <i>Drug Metabolism and Disposition</i> , 2018, 46, 1466-1477.	3.3	91
20	An exposureâ€“response analysis based on rifampin suggests CYP3A4 induction is driven by AUC: an in vitro investigation. <i>Xenobiotica</i> , 2017, 47, 673-681.	1.1	5
21	An Automated High-Throughput Metabolic Stability Assay Using an Integrated High-Resolution Accurate Mass Method and Automated Data Analysis Software. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1653-1661.	3.3	35
22	Application of a Micropatterned Cocultured Hepatocyte System To Predict Preclinical and Human-Specific Drug Metabolism. <i>Drug Metabolism and Disposition</i> , 2016, 44, 172-179.	3.3	48
23	Intrinsic reactivity profile of electrophilic moieties to guide covalent drug design: N- ϵ -acetyl-L-lysine as an amine nucleophile. <i>MedChemComm</i> , 2016, 7, 864-872.	3.4	43
24	Biosynthesis of Fluorinated Analogs of Drugs Using Human Cytochrome P450 Enzymes Followed by Deoxyfluorination and Quantitative Nuclear Magnetic Resonance Spectroscopy to Improve Metabolic Stability. <i>Drug Metabolism and Disposition</i> , 2016, 44, 634-646.	3.3	23
25	Design and optimization of selective azaindole amide M1 positive allosteric modulators. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 650-655.	2.2	35
26	Unbiased Scanning Method and Data Banking Approach Using Ultra-High Performance Liquid Chromatography Coupled with High-Resolution Mass Spectrometry for Quantitative Comparison of Metabolite Exposure in Plasma across Species Analyzed at Different Dates. <i>Analytical Chemistry</i> , 2015, 87, 11771-11776.	6.5	3
27	Chemical and Computational Methods for the Characterization of Covalent Reactive Groups for the Prospective Design of Irreversible Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 10072-10079.	6.4	249
28	Biosynthesis of Drug Metabolites and Quantitation Using NMR Spectroscopy for Use in Pharmacologic and Drug Metabolism Studies. <i>Drug Metabolism and Disposition</i> , 2014, 42, 1627-1639.	3.3	55
29	Clearance Mechanism Assignment and Total Clearance Prediction in Human Based upon in Silico Models. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4397-4405.	6.4	51
30	Aldehyde Oxidase 1 (AOX1) in Human Liver Cytosols: Quantitative Characterization of AOX1 Expression Level and Activity Relationship. <i>Drug Metabolism and Disposition</i> , 2013, 41, 1797-1804.	3.3	48
31	Comprehensive Assessment of Human Pharmacokinetic Prediction Based on In Vivo Animal Pharmacokinetic Data, Part 2: Clearance. <i>Journal of Clinical Pharmacology</i> , 2013, 53, 178-191.	2.0	76
32	Comprehensive Assessment of Human Pharmacokinetic Prediction Based on In Vivo Animal Pharmacokinetic Data, Part 1: Volume of Distribution at Steady State. <i>Journal of Clinical Pharmacology</i> , 2013, 53, 167-177.	2.0	60
33	Hydralazine As a Selective Probe Inactivator of Aldehyde Oxidase in Human Hepatocytes: Estimation of the Contribution of Aldehyde Oxidase to Metabolic Clearance. <i>Drug Metabolism and Disposition</i> , 2012, 40, 1441-1448.	3.3	68
34	Statistical Methods for Analysis of Time-Dependent Inhibition of Cytochrome P450 Enzymes. <i>Drug Metabolism and Disposition</i> , 2012, 40, 2289-2296.	3.3	27
35	Mechanism-Based Inactivation (MBI) of Cytochrome P450 Enzymes: Structureâ€“Activity Relationships and Discovery Strategies To Mitigate Drugâ€“Drug Interaction Risks. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 4896-4933.	6.4	176
36	Metabolism-Directed Design of Oxetane-Containing Arylsulfonamide Derivatives as β -Secretase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 7772-7783.	6.4	92

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37	Aldehyde Oxidase: An Enzyme of Emerging Importance in Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 8441-8460.	6.4	311
38	Cross-Species Comparison of the Metabolism and Excretion of Zoniporide: Contribution of Aldehyde Oxidase to Interspecies Differences. <i>Drug Metabolism and Disposition</i> , 2010, 38, 641-654.	3.3	66
39	Discovery of Azetidiny Ketolides for the Treatment of Susceptible and Multidrug Resistant Community-Acquired Respiratory Tract Infections. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 7446-7457.	6.4	51
40	The Conduct of in Vitro Studies to Address Time-Dependent Inhibition of Drug-Metabolizing Enzymes: A Perspective of the Pharmaceutical Research and Manufacturers of America. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1355-1370.	3.3	279
41	Can In Vitro Metabolism-Dependent Covalent Binding Data in Liver Microsomes Distinguish Hepatotoxic from Nonhepatotoxic Drugs? An Analysis of 18 Drugs with Consideration of Intrinsic Clearance and Daily Dose. <i>Chemical Research in Toxicology</i> , 2008, 21, 1814-1822.	3.3	194
42	Trend Analysis of a Database of Intravenous Pharmacokinetic Parameters in Humans for 670 Drug Compounds. <i>Drug Metabolism and Disposition</i> , 2008, 36, 1385-1405.	3.3	345
43	Mechanism-Based Inactivation of Human Cytochrome P450 Enzymes and the Prediction of Drug-Drug Interactions. <i>Drug Metabolism and Disposition</i> , 2007, 35, 246-255.	3.3	425
44	A Hybrid Mixture Discriminant Analysis~Random Forest Computational Model for the Prediction of Volume of Distribution of Drugs in Human. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 2262-2267.	6.4	101
45	The Utility of in Vitro Cytochrome P450 Inhibition Data in the Prediction of Drug-Drug Interactions. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 336-348.	2.5	415
46	VALIDATED ASSAYS FOR HUMAN CYTOCHROME P450 ACTIVITIES. <i>Drug Metabolism and Disposition</i> , 2004, 32, 647-660.	3.3	484
47	POTENT INHIBITION OF HUMAN LIVER ALDEHYDE OXIDASE BY RALOXIFENE. <i>Drug Metabolism and Disposition</i> , 2004, 32, 89-97.	3.3	149
48	Prediction of Human Volume of Distribution Values for Neutral and Basic Drugs. 2. Extended Data Set and Leave-Class-Out Statistics. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1242-1250.	6.4	161
49	Prediction of Volume of Distribution Values in Humans for Neutral and Basic Drugs Using Physicochemical Measurements and Plasma Protein Binding Data. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 2867-2876.	6.4	194