

Matthew R Redinbo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

8,714
citations

50
h-index

92
g-index

121
ext. papers

10,081
ext. citations

10.6
avg, IF

6
L-index

#	Paper	IF	Citations
115	The human nuclear xenobiotic receptor PXR: structural determinants of directed promiscuity. <i>Science</i> , 2001 , 292, 2329-33	33.3	675
114	A model for the mechanism of human topoisomerase I. <i>Science</i> , 1998 , 279, 1534-41	33.3	598
113	Alleviating cancer drug toxicity by inhibiting a bacterial enzyme. <i>Science</i> , 2010 , 330, 831-5	33.3	583
112	Symbiotic bacterial metabolites regulate gastrointestinal barrier function via the xenobiotic sensor PXR and Toll-like receptor 4. <i>Immunity</i> , 2014 , 41, 296-310	32.3	470
111	Regulation of cyp3a gene transcription by the pregnane x receptor. <i>Annual Review of Pharmacology and Toxicology</i> , 2002 , 42, 1-23	17.9	301
110	2.1 A crystal structure of human PXR in complex with the St. John's wort compound hyperforin. <i>Biochemistry</i> , 2003 , 42, 1430-8	3.2	280
109	The role of the microbiome in cancer development and therapy. <i>Ca-A Cancer Journal for Clinicians</i> , 2017 , 67, 326-344	220.7	277
108	Coactivator binding promotes the specific interaction between ligand and the pregnane X receptor. <i>Journal of Molecular Biology</i> , 2003 , 331, 815-28	6.5	191
107	Mammalian carboxylesterases: from drug targets to protein therapeutics. <i>Drug Discovery Today</i> , 2005 , 10, 313-25	8.8	171
106	Structural basis of heroin and cocaine metabolism by a promiscuous human drug-processing enzyme. <i>Nature Structural and Molecular Biology</i> , 2003 , 10, 349-56	17.6	170
105	Modulation of human nuclear receptor LXR-1 activity by phospholipids and SHP. <i>Nature Structural and Molecular Biology</i> , 2005 , 12, 357-63	17.6	170
104	Structural disorder in the complex of human pregnane X receptor and the macrolide antibiotic rifampicin. <i>Molecular Endocrinology</i> , 2005 , 19, 1125-34		168
103	Crystal structure of the cofactor-binding domain of the human phase II drug-metabolism enzyme UDP-glucuronosyltransferase 2B7. <i>Journal of Molecular Biology</i> , 2007 , 369, 498-511	6.5	146
102	Structure and Inhibition of Microbiome β -Glucuronidases Essential to the Alleviation of Cancer Drug Toxicity. <i>Chemistry and Biology</i> , 2015 , 22, 1238-49		141
101	Molecular basis for pH-dependent mucosal dehydration in cystic fibrosis airways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15973-8	11.5	139
100	Crystal structure of human carboxylesterase 1 complexed with the Alzheimer's drug tacrine: from binding promiscuity to selective inhibition. <i>Chemistry and Biology</i> , 2003 , 10, 341-9		138
99	Novel insights into catalytic mechanism from a crystal structure of human topoisomerase I in complex with DNA. <i>Biochemistry</i> , 2000 , 39, 6832-40	3.2	134

98	Pharmacologic targeting of bacterial β glucuronidase alleviates nonsteroidal anti-inflammatory drug-induced enteropathy in mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 341, 447-54	4.7	133
97	Structural insights into CPT-11 activation by mammalian carboxylesterases. <i>Nature Structural Biology</i> , 2002 , 9, 337-42		130
96	Recommended nomenclature for five mammalian carboxylesterase gene families: human, mouse, and rat genes and proteins. <i>Mammalian Genome</i> , 2010 , 21, 427-41	3.2	123
95	Mechanisms of camptothecin resistance by human topoisomerase I mutations. <i>Journal of Molecular Biology</i> , 2004 , 339, 773-84	6.5	121
94	The nuclear xenobiotic receptor pregnane X receptor: recent insights and new challenges. <i>Molecular Endocrinology</i> , 2005 , 19, 2891-900		115
93	Multisite promiscuity in the processing of endogenous substrates by human carboxylesterase 1. <i>Journal of Molecular Biology</i> , 2006 , 363, 201-14	6.5	114
92	Structural insights into drug processing by human carboxylesterase 1: tamoxifen, mevastatin, and inhibition by benzil. <i>Journal of Molecular Biology</i> , 2005 , 352, 165-77	6.5	109
91	Bacterial β glucuronidase inhibition protects mice against enteropathy induced by indomethacin, ketoprofen or diclofenac: mode of action and pharmacokinetics. <i>Xenobiotica</i> , 2014 , 44, 28-35	2	108
90	Crystal structure of the PXR-T1317 complex provides a scaffold to examine the potential for receptor antagonism. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 2156-66	3.4	104
89	The phytoestrogen coumestrol is a naturally occurring antagonist of the human pregnane X receptor. <i>Molecular Endocrinology</i> , 2008 , 22, 838-57		95
88	Challenges predicting ligand-receptor interactions of promiscuous proteins: the nuclear receptor PXR. <i>PLoS Computational Biology</i> , 2009 , 5, e1000594	5	94
87	Multiple NSAID-induced hits injure the small intestine: underlying mechanisms and novel strategies. <i>Toxicological Sciences</i> , 2013 , 131, 654-67	4.4	93
86	Glucuronides in the gut: Sugar-driven symbioses between microbe and host. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8569-8576	5.4	90
85	Activated pregnenolone X-receptor is a target for ketoconazole and its analogs. <i>Clinical Cancer Research</i> , 2007 , 13, 2488-95	12.9	88
84	An Atlas of β Glucuronidases in the Human Intestinal Microbiome. <i>Structure</i> , 2017 , 25, 967-977.e5	5.2	87
83	Molecular insights into microbial β glucuronidase inhibition to abrogate CPT-11 toxicity. <i>Molecular Pharmacology</i> , 2013 , 84, 208-17	4.3	84
82	Crystal structure of the pregnane X receptor-estradiol complex provides insights into endobiotic recognition. <i>Molecular Endocrinology</i> , 2007 , 21, 1028-38		81
81	Structural flexibility in human topoisomerase I revealed in multiple non-isomorphous crystal structures. <i>Journal of Molecular Biology</i> , 1999 , 292, 685-96	6.5	80

80	Structure and function of the human nuclear xenobiotic receptor PXR. <i>Current Drug Metabolism</i> , 2005 , 6, 357-67	3.5	76
79	Disrupting antibiotic resistance propagation by inhibiting the conjugative DNA relaxase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12282-7	11.5	70
78	PXR antagonists and implication in drug metabolism. <i>Drug Metabolism Reviews</i> , 2013 , 45, 60-72	7	69
77	8-Oxoguanine rearranges the active site of human topoisomerase I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12102-7	11.5	67
76	Structural insights into the function of type IB topoisomerases. <i>Current Opinion in Structural Biology</i> , 1999 , 9, 29-36	8.1	62
75	Identification of the SPLUNC1 ENaC-inhibitory domain yields novel strategies to treat sodium hyperabsorption in cystic fibrosis airway epithelial cultures. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013 , 305, L990-L1001	5.8	61
74	The crystal structure of human UDP-glucuronosyltransferase 2B7 C-terminal end is the first mammalian UGT target to be revealed: the significance for human UGTs from both the 1A and 2B families. <i>Drug Metabolism Reviews</i> , 2010 , 42, 133-44	7	60
73	Orphan nuclear receptors adopted by crystallography. <i>Current Opinion in Structural Biology</i> , 2005 , 15, 708-15	8.1	60
72	Targeted inhibition of gut bacterial β -glucuronidase activity enhances anticancer drug efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7374-7381	11.5	54
71	Structural basis of human pregnane X receptor activation by the hops constituent colupulone. <i>Molecular Pharmacology</i> , 2008 , 74, 1512-20	4.3	54
70	Crystal structures of human carboxylesterase 1 in covalent complexes with the chemical warfare agents soman and tabun. <i>Biochemistry</i> , 2007 , 46, 5063-71	3.2	54
69	Gut microbial β -glucuronidases reactivate estrogens as components of the estrobolome that reactivate estrogens. <i>Journal of Biological Chemistry</i> , 2019 , 294, 18586-18599	5.4	53
68	Elucidating the Slekyl and HydeSnature of PXR: the case for discovering antagonists or allosteric antagonists. <i>Pharmaceutical Research</i> , 2009 , 26, 1807-15	4.5	52
67	Xenobiotic-sensing nuclear receptors involved in drug metabolism: a structural perspective. <i>Drug Metabolism Reviews</i> , 2013 , 45, 79-100	7	50
66	The human microbiome is a source of therapeutic drug targets. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 379-84	9.7	50
65	<i>Pseudomonas aeruginosa</i> Pily1 binds integrin in an RGD- and calcium-dependent manner. <i>PLoS ONE</i> , 2011 , 6, e29629	3.7	48
64	Human PXR forms a tryptophan zipper-mediated homodimer. <i>Biochemistry</i> , 2006 , 45, 8579-89	3.2	46
63	Human carboxylesterase 1 stereoselectively binds the nerve agent cyclosarin and spontaneously hydrolyzes the nerve agent sarin. <i>Molecular Pharmacology</i> , 2010 , 77, 508-16	4.3	43

62	Plant "helper" immune receptors are Ca-permeable nonselective cation channels. <i>Science</i> , 2021 , 373, 420-425	33.3	41
61	Structural and functional analysis of the human nuclear xenobiotic receptor PXR in complex with RXR. <i>Journal of Molecular Biology</i> , 2013 , 425, 2561-77	6.5	40
60	Molecular basis of antibiotic multiresistance transfer in <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2804-9	11.5	39
59	Structural impact of the leukemia drug 1-beta-D-arabinofuranosylcytosine (Ara-C) on the covalent human topoisomerase I-DNA complex. <i>Journal of Biological Chemistry</i> , 2003 , 278, 12461-6	5.4	39
58	The microbiota, chemical symbiosis, and human disease. <i>Journal of Molecular Biology</i> , 2014 , 426, 3877-916.5	16.5	37
57	Analysis of mammalian carboxylesterase inhibition by trifluoromethylketone-containing compounds. <i>Molecular Pharmacology</i> , 2007 , 71, 713-23	4.3	37
56	Structural insights into the promiscuity and function of the human pregnane X receptor. <i>Current Opinion in Drug Discovery & Development</i> , 2002 , 5, 150-8		37
55	Active nuclear receptors exhibit highly correlated AF-2 domain motions. <i>PLoS Computational Biology</i> , 2008 , 4, e1000111	5	36
54	Structure, function, and inhibition of drug reactivating human gut microbial β -glucuronidases. <i>Scientific Reports</i> , 2019 , 9, 825	4.9	32
53	Structural Features Essential to the Antimicrobial Functions of Human SPLUNC1. <i>Biochemistry</i> , 2016 , 55, 2979-91	3.2	30
52	Gut Microbial β -Glucuronidase Inhibition via Catalytic Cycle Interception. <i>ACS Central Science</i> , 2018 , 4, 868-879	16.8	30
51	Nonsteroidal Anti-Inflammatory Drug-Induced Leaky Gut Modeled Using Polarized Monolayers of Primary Human Intestinal Epithelial Cells. <i>ACS Infectious Diseases</i> , 2018 , 4, 46-52	5.5	29
50	Structural basis for the regulation of β -glucuronidase expression by human gut Enterobacteriaceae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E152-E161	11.5	28
49	Mammalian short palate lung and nasal epithelial clone 1 (SPLUNC1) in pH-dependent airway hydration. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 52, 130-5	5.6	28
48	Understanding and modulating mammalian-microbial communication for improved human health. <i>Annual Review of Pharmacology and Toxicology</i> , 2014 , 54, 559-80	17.9	28
47	Identification of BPIFA1/SPLUNC1 as an epithelium-derived smooth muscle relaxing factor. <i>Nature Communications</i> , 2017 , 8, 14118	17.4	26
46	Targeting the pregnane X receptor using microbial metabolite mimicry. <i>EMBO Molecular Medicine</i> , 2020 , 12, e11621	12	26
45	Crystal structure of the plant epigenetic protein arginine methyltransferase 10. <i>Journal of Molecular Biology</i> , 2011 , 414, 106-22	6.5	25

44	Discovering the Microbial Enzymes Driving Drug Toxicity with Activity-Based Protein Profiling. <i>ACS Chemical Biology</i> , 2020 , 15, 217-225	4.9	24
43	Three structurally and functionally distinct β glucuronidases from the human gut microbe. <i>Journal of Biological Chemistry</i> , 2018 , 293, 18559-18573	5.4	24
42	SPLUNC1 is an allosteric modulator of the epithelial sodium channel. <i>FASEB Journal</i> , 2018 , 32, 2478-2491	6.9	21
41	Activation of the human nuclear xenobiotic receptor PXR by the reverse transcriptase-targeted anti-HIV drug PNU-142721. <i>Protein Science</i> , 2011 , 20, 1713-9	6.3	21
40	The mechanism and control of DNA transfer by the conjugative relaxase of resistance plasmid pCU1. <i>Nucleic Acids Research</i> , 2010 , 38, 5929-43	20.1	21
39	Gut-Derived Protein-Bound Uremic Toxins. <i>Toxins</i> , 2020 , 12,	4.9	21
38	Targeting Regorafenib-Induced Toxicity through Inhibition of Gut Microbial β Glucuronidases. <i>ACS Chemical Biology</i> , 2019 , 14, 2737-2744	4.9	19
37	Reporting guidelines for human microbiome research: the STORMS checklist. <i>Nature Medicine</i> , 2021 , 27, 1885-1892	50.5	19
36	Garcinoic Acid Is a Natural and Selective Agonist of Pregnane X Receptor. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 3701-3712	8.3	18
35	Rifampicin-independent interactions between the pregnane X receptor ligand binding domain and peptide fragments of coactivator and corepressor proteins. <i>Biochemistry</i> , 2012 , 51, 19-31	3.2	18
34	Promiscuity: what protects us, perplexes us. <i>Drug Discovery Today</i> , 2004 , 9, 431-2	8.8	18
33	Nerve agent hydrolysis activity designed into a human drug metabolism enzyme. <i>PLoS ONE</i> , 2011 , 6, e17441	3.7	18
32	Regulation of drug metabolism and toxicity by multiple factors of genetics, epigenetics, lncRNAs, gut microbiota, and diseases: a meeting report of the 21 International Symposium on Microsomes and Drug Oxidations (MDO). <i>Acta Pharmaceutica Sinica B</i> , 2017 , 7, 241-248	15.5	17
31	Short Palate, Lung, and Nasal Epithelial Clone 1 Has Antimicrobial and Antibiofilm Activities against the Burkholderia cepacia Complex. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 6003-12	5.9	17
30	Processing of Nonconjugative Resistance Plasmids by Conjugation Nicking Enzyme of Staphylococci. <i>Journal of Bacteriology</i> , 2016 , 198, 888-97	3.5	15
29	Mouse Gut Microbiome-Encoded β Glucuronidases Identified Using Metagenome Analysis Guided by Protein Structure. <i>MSystems</i> , 2019 , 4,	7.6	15
28	Molecular modeling of CPT-11 metabolism by carboxylesterases (CEs): use of pnb CE as a model. <i>Biochemistry</i> , 2004 , 43, 1874-82	3.2	15
27	New potential targets for antifungal development. <i>Expert Opinion on Therapeutic Targets</i> , 2000 , 4, 265-296		15

26	A High Throughput Assay for Discovery of Bacterial β -Glucuronidase Inhibitors. <i>Current Chemical Genomics</i> , 2011 , 5, 13-20		15
25	Post-translational Claisen Condensation and Decarboxylation en Route to the Bicyclic Core of Pantocin A. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5487-90	16.4	15
24	Functional characterization of the multidomain F plasmid TraI relaxase-helicase. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12670-82	5.4	13
23	Discovery and Characterization of FMN-Binding β -Glucuronidases in the Human Gut Microbiome. <i>Journal of Molecular Biology</i> , 2019 , 431, 970-980	6.5	10
22	Microbial Glucuronidase Inhibition Reduces Severity of Diclofenac-Induced Anastomotic Leak in Rats. <i>Surgical Infections</i> , 2018 , 19, 417-423	2	10
21	Immobilization of active human carboxylesterase 1 in biomimetic silica nanoparticles. <i>Biotechnology Progress</i> , 2011 , 27, 863-9	2.8	10
20	Enterococcus faecalis Gluconate Phosphotransferase System Accelerates Experimental Colitis and Bacterial Killing by Macrophages. <i>Infection and Immunity</i> , 2019 , 87,	3.7	9
19	Acetylation of lysine 109 modulates pregnane X receptor DNA binding and transcriptional activity. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016 , 1859, 1155-1169	6	8
18	Quantitative Investigation of Irinotecan Metabolism, Transport, and Gut Microbiome Activation. <i>Drug Metabolism and Disposition</i> , 2021 , 49, 683-693	4	8
17	Active site flexibility revealed in crystal structures of Parabacteroides merdae β -glucuronidase from the human gut microbiome. <i>Protein Science</i> , 2018 , 27, 2010-2022	6.3	8
16	Tyrosine partners coordinate DNA nicking by the Salmonella typhimurium plasmid pCU1 relaxase enzyme. <i>FEBS Letters</i> , 2011 , 585, 1216-22	3.8	7
15	Structural Insights into Endobiotic Reactivation by Human Gut Microbiome-Encoded Sulfatases. <i>Biochemistry</i> , 2020 , 59, 3939-3950	3.2	6
14	Epithelial delamination is protective during pharmaceutical-induced enteropathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16961-16970	11.5	5
13	Enhanced biofilm prevention activity of a SPLUNC1-derived antimicrobial peptide against Staphylococcus aureus. <i>PLoS ONE</i> , 2018 , 13, e0203621	3.7	5
12	Selecting a Single Stereocenter: The Molecular Nuances That Differentiate β -Hexuronidases in the Human Gut Microbiome. <i>Biochemistry</i> , 2019 , 58, 1311-1317	3.2	4
11	Microbial Unmasking of Plant Glycosides. <i>MBio</i> , 2018 , 9,	7.8	4
10	A Rare Mutation in SPLUNC1 Affects Bacterial Adherence and Invasion in Meningococcal Disease. <i>Clinical Infectious Diseases</i> , 2020 , 70, 2045-2053	11.6	4
9	Microbial enzymes induce colitis by reactivating triclosan in the mouse gastrointestinal tract.. <i>Nature Communications</i> , 2022 , 13, 136	17.4	3

8	The Gut Microbiota Impact Cancer Etiology through "Phase IV Metabolism" of Xenobiotics and Endobiotics. <i>Cancer Prevention Research</i> , 2020 , 13, 635-642	3.2	2
7	Identification of Specific and Nonspecific Inhibitors of Bacillus anthracis Type III Pantothenate Kinase (PanK). <i>ChemMedChem</i> , 2019 , 14, 78-82	3.7	2
6	Crystal structure of the mouse innate immunity factor bacterial permeability-increasing family member A1. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018 , 74, 268-276	1.1	2
5	The Microbiome Revolution Turns to Cholesterol. <i>Cell Host and Microbe</i> , 2020 , 28, 154-156	23.4	1
4	Microbial Molecules from the Multitudes within Us. <i>Cell Metabolism</i> , 2017 , 25, 230-232	24.6	0
3	A structural examination of agrochemical processing by human carboxylesterase 1. <i>Journal of Pesticide Sciences</i> , 2010 , 35, 250-256	2.7	
2	Pharmaceutical Control of the Microbiome. <i>FASEB Journal</i> , 2015 , 29, 575.13	0.9	
1	Pharmaceutical Control of the Microbiome. <i>FASEB Journal</i> , 2015 , 29, 494.2	0.9	