

C Anthony Hunt

List of Publications by Year in descending order

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78
papers

1,553
citations

279798

23
h-index

345221

36
g-index

93
all docs

93
docs citations

93
times ranked

1216
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Cysts by Alveolar Type II Cells in Three-dimensional Culture Reveals a Novel Mechanism for Epithelial Morphogenesis. <i>Molecular Biology of the Cell</i> , 2007, 18, 1693-1700.	2.1	91
2	Engineering targeted in vivo drug delivery. I. The physiological and physicochemical principles governing opportunities and limitations. <i>Pharmaceutical Research</i> , 1986, 03, 333-344.	3.5	83
3	At the Biological Modeling and Simulation Frontier. <i>Pharmaceutical Research</i> , 2009, 26, 2369-2400.	3.5	73
4	Antisense c-myc oligodeoxyribonucleotide cellular uptake. <i>Pharmaceutical Research</i> , 1992, 09, 1010-1017.	3.5	59
5	Physiologically Based Synthetic Models of Hepatic Disposition. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2006, 33, 737-772.	1.8	58
6	Simulating Properties of In Vitro Epithelial Cell Morphogenesis. <i>PLoS Computational Biology</i> , 2006, 2, e129.	3.2	58
7	Tunable resolution as a systems biology approach for multi-scale, multi-compartment computational models. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2014, 6, 289-309.	6.6	53
8	LIGHT SENSITIVE LIPOSOMES. <i>Photochemistry and Photobiology</i> , 1983, 37, 491-494.	2.5	49
9	Modeling and Simulation of Hepatic Drug Disposition Using a Physiologically Based, Multi-agent In Silico Liver. <i>Pharmaceutical Research</i> , 2008, 25, 1023-1036.	3.5	46
10	Dynamics of in silico leukocyte rolling, activation, and adhesion. <i>BMC Systems Biology</i> , 2007, 1, 14.	3.0	45
11	Challenges and rewards on the road to translational systems biology in acute illness: four case reports from interdisciplinary teams. <i>Journal of Critical Care</i> , 2007, 22, 169-175.	2.2	44
12	Evidence that cannabidiol does not significantly alter the pharmacokinetics of tetrahydrocannabinol in man. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1981, 9, 245-260.	0.6	40
13	Lymphatic transport of liposome-encapsulated drugs following intraperitoneal administration - effect of lipid composition. <i>Pharmaceutical Research</i> , 1985, 02, 271-278.	3.5	40
14	Buffer effects on swelling kinetics in polybasic gels. <i>Pharmaceutical Research</i> , 1992, 09, 76-81.	3.5	40
15	Predictions of Hepatic Disposition Properties Using a Mechanistically Realistic, Physiologically Based Model. <i>Drug Metabolism and Disposition</i> , 2008, 36, 759-768.	3.3	40
16	Essential operating principles for tumor spheroid growth. <i>BMC Systems Biology</i> , 2008, 2, 110.	3.0	39
17	Dichotomies between computational and mathematical models. <i>Nature Biotechnology</i> , 2008, 26, 737-738.	17.5	36
18	Agent-based modeling: a systematic assessment of use cases and requirements for enhancing pharmaceutical research and development productivity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 461-480.	6.6	33

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19	MDCK Cystogenesis Driven by Cell Stabilization within Computational Analogues. <i>PLoS Computational Biology</i> , 2011, 7, e1002030.	3.2	32
20	Tracing Multiscale Mechanisms of Drug Disposition in Normal and Diseased Livers. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 334, 124-136.	2.5	29
21	Mechanistic Study of the Cellular Interplay of Transport and Metabolism Using the Synthetic Modeling Method. <i>Pharmaceutical Research</i> , 2006, 23, 493-505.	3.5	28
22	Identifying the Rules of Engagement Enabling Leukocyte Rolling, Activation, and Adhesion. <i>PLoS Computational Biology</i> , 2010, 6, e1000681.	3.2	27
23	A computational approach to resolve cell level contributions to early glandular epithelial cancer progression. <i>BMC Systems Biology</i> , 2009, 3, 122.	3.0	25
24	Computational Strategies Unravel and Trace How Liver Disease Changes Hepatic Drug Disposition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 294-305.	2.5	24
25	Relational grounding facilitates development of scientifically useful multiscale models. <i>Theoretical Biology and Medical Modelling</i> , 2011, 8, 35.	2.1	24
26	Mechanistic Insight from In Silico Pharmacokinetic Experiments: Roles of P-glycoprotein, Cyp3A4 Enzymes, and Microenvironments. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 398-412.	2.5	22
27	Toward modular biological models: defining analog modules based on referent physiological mechanisms. <i>BMC Systems Biology</i> , 2014, 8, 95.	3.0	22
28	Competing Mechanistic Hypotheses of Acetaminophen-Induced Hepatotoxicity Challenged by Virtual Experiments. <i>PLoS Computational Biology</i> , 2016, 12, e1005253.	3.2	22
29	Studies of intestinal drug transport using an in silico epithelio-mimetic device. <i>BioSystems</i> , 2005, 82, 154-167.	2.0	20
30	Discovering Plausible Mechanistic Details of Hepatic Drug Interactions. <i>Drug Metabolism and Disposition</i> , 2009, 37, 237-246.	3.3	20
31	Cloud computing and validation of expandable in silico livers. <i>BMC Systems Biology</i> , 2010, 4, 168.	3.0	19
32	The Spectrum of Mechanism-Oriented Models and Methods for Explanations of Biological Phenomena. <i>Processes</i> , 2018, 6, 56.	2.8	19
33	An In Silico Transwell Device for the Study of Drug Transport and Drug-Drug Interactions. <i>Pharmaceutical Research</i> , 2007, 24, 2171-2186.	3.5	18
34	Computational investigation of epithelial cell dynamic phenotype in vitro. <i>Theoretical Biology and Medical Modelling</i> , 2009, 6, 8.	2.1	17
35	Computational experiments reveal plausible mechanisms for changing patterns of hepatic zonation of xenobiotic clearance and hepatotoxicity. <i>Journal of Theoretical Biology</i> , 2010, 265, 718-733.	1.7	17
36	Contrasting model mechanisms of alanine aminotransferase (ALT) release from damaged and necrotic hepatocytes as an example of general biomarker mechanisms. <i>PLoS Computational Biology</i> , 2020, 16, e1007622.	3.2	17

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37	Liposome Dialysis for Improved Size Distributions. <i>Journal of Pharmaceutical Sciences</i> , 1982, 71, 806-812.	3.3	16
38	A Computational Approach to Understand In Vitro Alveolar Morphogenesis. <i>PLoS ONE</i> , 2009, 4, e4819.	2.5	15
39	In Silico Methods for Unraveling the Mechanistic Complexities of Intestinal Absorption: Metabolism-Efflux Transport Interactions. <i>Drug Metabolism and Disposition</i> , 2008, 36, 1414-1424.	3.3	14
40	Virtual Experiments Enable Exploring and Challenging Explanatory Mechanisms of Immune-Mediated P450 Down-Regulation. <i>PLoS ONE</i> , 2016, 11, e0155855.	2.5	14
41	Synthesis of DNA Dumbbells: Chemical vs. Enzymatic Ligation of Self-Complementary Oligonucleotides. <i>Nucleosides & Nucleotides</i> , 1997, 16, 41-51.	0.5	12
42	Bootstrapping for pharmacokinetic models: visualization of predictive and parameter uncertainty. <i>Pharmaceutical Research</i> , 1998, 15, 690-697.	3.5	12
43	Enabling Clearance Predictions to Emerge from In Silico Actions of Quasi-Autonomous Hepatocyte Components. <i>Drug Metabolism and Disposition</i> , 2011, 39, 1910-1920.	3.3	12
44	Propagation of Pericentral Necrosis During Acetaminophen-Induced Liver Injury: Evidence for Early Interhepatocyte Communication and Information Exchange. <i>Toxicological Sciences</i> , 2019, 169, 151-166.	3.1	12
45	Murine plasma fibronectin depletion after intravenous injection of liposomes. <i>International Journal of Pharmaceutics</i> , 1987, 37, 233-238.	5.2	11
46	Prediction of in Vitro Hepatic Biliary Excretion using Stochastic Agent-Based Modeling and Fuzzy Clustering. , 2006, , .		10
47	Simulation of lung alveolar epithelial wound healing in vitro. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1157-1170.	3.4	8
48	Moving beyond in silico tools to in silico science in support of drug development research. <i>Drug Development Research</i> , 2011, 72, 153-161.	2.9	8
49	A Model Mechanism-Based Explanation of an In Vitro-In Vivo Disconnect for Improving Extrapolation and Translation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 365, 127-138.	2.5	8
50	A cell-centered, agent-based framework that enables flexible environment granularities. <i>Theoretical Biology and Medical Modelling</i> , 2016, 13, 4.	2.1	7
51	Individualized, discrete event, simulations provide insight into inter- and intra-subject variability of extended-release, drug products. <i>Theoretical Biology and Medical Modelling</i> , 2012, 9, 39.	2.1	6
52	In Silico, Experimental, Mechanistic Model for Extended-Release Felodipine Disposition Exhibiting Complex Absorption and a Highly Variable Food Interaction. <i>PLoS ONE</i> , 2014, 9, e108392.	2.5	6
53	Artificial Red Cells. A Link Between the Membrane Skeleton and Res Detectability?. <i>Biomaterials, Artificial Cells, and Artificial Organs</i> , 1990, 18, 329-343.	0.2	5
54	Evaluating an hepatic enzyme induction mechanism through coarse- and fine-grained measurements of an in silico liver. <i>Complexity</i> , 2009, 14, 28-34.	1.6	5

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55	Falsifying an Enzyme Induction Mechanism within a Validated, Multiscale Liver Model. International Journal of Agent Technologies and Systems, 2012, 4, 1-14.	0.1	5
56	Agent-Directed Tracing of Multi-Scale Drug Disposition Events within Normal and Diseased In Silico Livers. International Journal of Agent Technologies and Systems, 2010, 2, 1-19.	0.1	4
57	Cost-based Partitioning for Distributed and Parallel Simulation of Decomposable Multiscale Constructive Models. Simulation, 2006, 82, 809-826.	1.8	3
58	Mechanistic simulations explain paradoxical saquinavir metabolism during in vitro vectorial transport study. , 2008, 2008, 5462-5.		3
59	Simulation enabled search for explanatory mechanisms of the fracture healing process. PLoS Computational Biology, 2018, 14, e1005980.	3.2	3
60	Advanced Concepts and Generative Simulation Formalisms for Creative Discovery Systems Engineering. Intelligent Systems Reference Library, 2011, , 233-258.	1.2	3
61	Biomimetic in Silico Devices. Lecture Notes in Computer Science, 2005, , 34-42.	1.3	2
62	In silico simulation of epithelial cell tubulogenesis. , 2008, 2008, 1036-9.		2
63	Using an In Silico Liver to evaluate a hepatic enzyme induction mechanism. , 2008, 2008, 2415-8.		2
64	An In Silico Analogue of In Vitro Systems Used to Study Epithelial Cell Morphogenesis. Lecture Notes in Computer Science, 2006, , 285-297.	1.3	2
65	DEVS Peer-to-Peer Protocol for Distributed and Parallel Simulation of Hierarchical and Decomposable DEVS Models. , 2007, , .		1
66	Some Unique Properties of a Bilayer and Liposome Forming System. Materials Research Society Symposia Proceedings, 1987, 110, 413.	0.1	0
67	Synthesis of Artificial Models of Sickle Red Cells. Materials Research Society Symposia Proceedings, 1987, 110, 99.	0.1	0
68	Characterization of apocytochrome C binding to human erythrocytes. American Journal of Hematology, 1994, 47, 132-134.	4.1	0
69	In Silico Analogues of Epithelial Cell Growth and Morphogenesis. , 2006, , .		0
70	Simulation modeling of in vitro epithelial morphogenesis and malignancy. Journal of Critical Care, 2007, 22, 347-348.	2.2	0
71	New Simulation Methods to Facilitate Achieving a Mechanistic Understanding of Basic Pharmacology Principles in the Classroom. Journal of Science Education and Technology, 2008, 17, 366-372.	3.9	0
72	Agent-based simulation of drug disposition in cirrhotic liver. , 2010, , .		0

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73	Simulating plausible mechanisms for changing hepatic xenobiotic clearance patterns. , 2010, , .		0
74	Simulating Properties of In Vitro Epithelial Cell Morphogenesis. PLoS Computational Biology, 2005, preprint, e129.	3.2	0
75	Synthetic Models and Methods. , 2013, , 2046-2050.		0
76	Establishing model mechanismâ€based causal linkages between APAPâ€induced hepatic necrosis and serum ALT. FASEB Journal, 2019, 33, 506.11.	0.5	0
77	In vitroâ€in vivo extrapolation of hepatic clearance: using virtual experiments to identify a plausibly influential source of inaccuracies. FASEB Journal, 2019, 33, .	0.5	0
78	A framework and mechanistically focused, in silico method for enabling rational translational research. Summit on Translational Bioinformatics, 2008, 2008, 46-50.	0.7	0