

Marcel Schilling

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,718
citations

471509

17
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

3245
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and practical identifiability analysis of partially observed dynamical models by exploiting the profile likelihood. <i>Bioinformatics</i> , 2009, 25, 1923-1929.	4.1	1,061
2	Lessons Learned from Quantitative Dynamical Modeling in Systems Biology. <i>PLoS ONE</i> , 2013, 8, e74335.	2.5	275
3	Data2Dynamics: a modeling environment tailored to parameter estimation in dynamical systems. <i>Bioinformatics</i> , 2015, 31, 3558-3560.	4.1	206
4	Facilitation of mRNA Deadenylation and Decay by the Exosome-Bound, DExH Protein RHAU. <i>Molecular Cell</i> , 2004, 13, 101-111.	9.7	170
5	Covering a Broad Dynamic Range: Information Processing at the Erythropoietin Receptor. <i>Science</i> , 2010, 328, 1404-1408.	12.6	152
6	Division of labor by dual feedback regulators controls JAK2/STAT5 signaling over broad ligand range. <i>Molecular Systems Biology</i> , 2011, 7, 516.	7.2	110
7	Dynamic Mathematical Modeling of IL13-Induced Signaling in Hodgkin and Primary Mediastinal B-Cell Lymphoma Allows Prediction of Therapeutic Targets. <i>Cancer Research</i> , 2011, 71, 693-704.	0.9	82
8	Theoretical and experimental analysis links isoform-specific ERK signalling to cell fate decisions. <i>Molecular Systems Biology</i> , 2009, 5, 334.	7.2	72
9	Protein abundance of AKT and ERK pathway components governs cell type-specific regulation of proliferation. <i>Molecular Systems Biology</i> , 2017, 13, 904.	7.2	72
10	Computational processing and error reduction strategies for standardized quantitative data in biological networks. <i>FEBS Journal</i> , 2005, 272, 6400-6411.	4.7	66
11	Predictive mathematical models of cancer signalling pathways. <i>Journal of Internal Medicine</i> , 2012, 271, 155-165.	6.0	56
12	Resolving the Combinatorial Complexity of Smad Protein Complex Formation and Its Link to Gene Expression. <i>Cell Systems</i> , 2018, 6, 75-89.e11.	6.2	55
13	Identification of Cell Type-Specific Differences in Erythropoietin Receptor Signaling in Primary Erythroid and Lung Cancer Cells. <i>PLoS Computational Biology</i> , 2016, 12, e1005049.	3.2	41
14	Disentangling molecular mechanisms regulating sensitization of interferon alpha signal transduction. <i>Molecular Systems Biology</i> , 2020, 16, e8955.	7.2	41
15	Identification of Isoform-Specific Dynamics in Phosphorylation-Dependent STAT5 Dimerization by Quantitative Mass Spectrometry and Mathematical Modeling. <i>Journal of Proteome Research</i> , 2014, 13, 5685-5694.	3.7	38
16	Quantitative data generation for systems biology: the impact of randomisation, calibrators and normalisers. <i>IET Systems Biology</i> , 2005, 152, 193.	2.0	33
17	Standardizing experimental protocols. <i>Current Opinion in Biotechnology</i> , 2008, 19, 354-359.	6.6	20
18	T160-phosphorylated CDK2 defines threshold for HGF-dependent proliferation in primary hepatocytes. <i>Molecular Systems Biology</i> , 2015, 11, 795.	7.2	19

#	ARTICLE	IF	CITATIONS
19	Model Based Targeting of IL-6-Induced Inflammatory Responses in Cultured Primary Hepatocytes to Improve Application of the JAK Inhibitor Ruxolitinib. <i>Frontiers in Physiology</i> , 2017, 8, 775.	2.8	19
20	Model-based identification of TNF α -induced IKK β -mediated and I κ B α -mediated regulation of NF κ B signal transduction as a tool to quantify the impact of drug-induced liver injury compounds. <i>Npj Systems Biology and Applications</i> , 2018, 4, 23.	3.0	19
21	Cellular ERK Phospho-Form Profiles with Conserved Preference for a Switch-Like Pattern. <i>Journal of Proteome Research</i> , 2013, 12, 637-646.	3.7	18
22	Context-specific flow through the MEK/ERK module produces cell- and ligand-specific patterns of ERK single and double phosphorylation. <i>Science Signaling</i> , 2016, 9, ra13.	3.6	18
23	Short-term information processing, long-term responses: Insights by mathematical modeling of signal transduction. <i>BioEssays</i> , 2012, 34, 542-550.	2.5	16
24	Disentangling the Complexity of HGF Signaling by Combining Qualitative and Quantitative Modeling. <i>PLoS Computational Biology</i> , 2015, 11, e1004192.	3.2	15
25	Expression ratio of the TGF β -inducible gene MYO10 is prognostic for overall survival of squamous cell lung cancer patients and predicts chemotherapy response. <i>Scientific Reports</i> , 2018, 8, 9517.	3.3	11
26	Cell-to-cell variability in JAK2/STAT5 pathway components and cytoplasmic volumes defines survival threshold in erythroid progenitor cells. <i>Cell Reports</i> , 2021, 36, 109507.	6.4	10
27	In silico labeling reveals the time-dependent label half-life and transit-time in dynamical systems. <i>BMC Systems Biology</i> , 2012, 6, 13.	3.0	6
28	MSPipeline: a python package for streamlined data analysis of mass spectrometry-based proteomics. <i>Bioinformatics Advances</i> , 2022, 2, .	2.4	6
29	Identification of Interleukin1 β as an Amplifier of Interferon alpha-induced Antiviral Responses. <i>PLoS Pathogens</i> , 2020, 16, e1008461.	4.7	5
30	Deciphering signal transduction networks in the liver by mechanistic mathematical modelling. <i>Biochemical Journal</i> , 2022, 479, 1361-1374.	3.7	4
31	Biological Foundations of Signal Transduction, <i>Systems Biology and Aberrations in Disease</i> . , 2014, , 45-64.		1
32	Mathematical modeling of hematological malignancies. <i>Frontiers in Bioscience - Elite</i> , 2012, E4, 1648.	1.8	0
33	Prediction of Pathway Desensitization by Mathematical Modeling of IFN α Signal Transduction. <i>Zeitschrift Fur Gastroenterologie</i> , 2019, 57, .	0.5	0