

Noriko F Hiroi

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

580
citations

759055

12
h-index

713332

21
g-index

60
all docs

60
docs citations

60
times ranked

999
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature elevation detection in migrating cells. , 2022, 1, 1085.		2
2	COVID19 Disease Map, a computational knowledge repository of virus–host interaction mechanisms. Molecular Systems Biology, 2021, 17, e10387.	3.2	53
3	Cellular thermogenesis compensates environmental temperature fluctuations for maintaining intracellular temperature. Biochemical and Biophysical Research Communications, 2020, 533, 70-76.	1.0	5
4	3D convolutional neural networks-based segmentation to acquire quantitative criteria of the nucleus during mouse embryogenesis. Npj Systems Biology and Applications, 2020, 6, 32.	1.4	30
5	Neural Differentiation Dynamics Controlled by Multiple Feedback Loops in a Comprehensive Molecular Interaction Network. Processes, 2020, 8, 166.	1.3	3
6	Identification of a master transcription factor and a regulatory mechanism for desiccation tolerance in the anhydrobiotic cell line Pv11. PLoS ONE, 2020, 15, e0230218.	1.1	11
7	Predicting the future direction of cell movement with convolutional neural networks. PLoS ONE, 2019, 14, e0221245.	1.1	13
8	Activation of cell migration via morphological changes in focal adhesions depends on shear stress in MYCN-amplified neuroblastoma cells. Journal of the Royal Society Interface, 2019, 16, 20180934.	1.5	5
9	Deep Learning for Non-Invasive Determination of the Differentiation Status of Human Neuronal Cells by Using Phase-Contrast Photomicrographs. Applied Sciences (Switzerland), 2019, 9, 5503.	1.3	2
10	XitoSBML: A Modeling Tool for Creating Spatial Systems Biology Markup Language Models From Microscopic Images. Frontiers in Genetics, 2019, 10, 1027.	1.1	3
11	Transcriptome analysis of the anhydrobiotic cell line Pv11 infers the mechanism of desiccation tolerance and recovery. Scientific Reports, 2018, 8, 17941.	1.6	14
12	Quantitative analysis of sensitivity to a Wnt3a gradient in determination of the pole–pole axis of mitotic cells by using a microfluidic device. FEBS Open Bio, 2018, 8, 1920-1935.	1.0	1
13	Requirement of spatiotemporal resolution for imaging intracellular temperature distribution. , 2017, , .		0
14	Editorial: Quantitative Biology: Dynamics of Living Systems. Frontiers in Physiology, 2016, 7, 196.	1.3	3
15	Detection of Temperature Difference in Neuronal Cells. Scientific Reports, 2016, 6, 22071.	1.6	93
16	High-speed microscopy with an electrically tunable lens to image the dynamics of in vivo molecular complexes. Review of Scientific Instruments, 2015, 86, 013707.	0.6	45
17	A proteomic study of mitotic phase-specific interactors of EB1 reveals a role for SXIP-mediated protein interactions in anaphase onset. Biology Open, 2015, 4, 155-169.	0.6	29
18	Acceleration of discrete stochastic biochemical simulation using GPGPU. Frontiers in Physiology, 2015, 6, 42.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Assessing uncertainty in model parameters based on sparse and noisy experimental data. <i>Frontiers in Physiology</i> , 2014, 5, 128.	1.3	1
20	Fabrication method to a high resolution control in the space of cell culturing environment with microfluidic system. , 2014, , .		0
21	Coarse grain parallelization and acceleration of biochemical ODE simulation using GPGPU. <i>IEICE Proceeding Series</i> , 2014, 1, 29-32.	0.0	0
22	The systems biology simulation core algorithm. <i>BMC Systems Biology</i> , 2013, 7, 55.	3.0	27
23	Automated tracking of mitotic spindle pole positions shows that LGN is required for spindle rotation but not orientation maintenance. <i>Cell Cycle</i> , 2013, 12, 2643-2655.	1.3	22
24	LibSBMLSim: a reference implementation of fully functional SBML simulator. <i>Bioinformatics</i> , 2013, 29, 1474-1476.	1.8	15
25	In vivo oriented modeling with consideration of intracellular crowding. , 2013, 2013, 2716-9.		1
26	Physiological Intracellular Crowdedness is Defined by the Perimeter-to-Area Ratio of Sub-Cellular Compartments. <i>Frontiers in Physiology</i> , 2012, 3, 293.	1.3	0
27	From microscopy data to in silico environments for in vivo-oriented simulations. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2012, 2012, 7.	1.4	7
28	Mathematical Modeling of Sustainable Synaptogenesis by Repetitive Stimuli Suggests Signaling Mechanisms In Vivo. <i>PLoS ONE</i> , 2012, 7, e51000.	1.1	10
29	Meeting report of the International Workshop on Quantitative Biology 2012: mesoscopic and microscopic worlds meet. <i>Frontiers in Physiology</i> , 2012, 3, 479.	1.3	0
30	Physiological environment induces quick response “slow exhaustion reactions. <i>Frontiers in Physiology</i> , 2011, 2, 50.	1.3	12
31	Automatic Pipeline Construction Focused on Similarity of Rate Law Functions for an FPGA-based Biochemical Simulator. <i>IPSI Transactions on System LSI Design Methodology</i> , 2010, 3, 244-256.	0.5	2
32	A datapath classification method for FPGA-based scientific application accelerator systems. , 2010, , .		0
33	A Modular Approach to Heterogeneous Biochemical Model Simulation on an FPGA. , 2009, , .		1
34	Configuring area and performance: Empirical evaluation on an FPGA-based biochemical simulator. , 2009, , .		2
35	3P-239 Effect of molecular crowding on in vivo macromolecular reactions(Mathematical biology,The) Tj ETQq1 1 0.784314 rgBT /Over	0.0	0
36	Pipeline Scheduling with Input Port Constraints for an FPGA-Based Biochemical Simulator. <i>Lecture Notes in Computer Science</i> , 2009, , 368-373.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Practical implementation of a network-based stochastic biochemical simulation system on an FPGA. , 2008, , .		4
38	A Combining Technique of Rate Law Functions for a Cost-Effective Reconfigurable Biological Simulator. , 2007, , .		1
39	A Framework for Implementing a Network-Based Stochastic Biochemical Simulator on an FPGA. , 2007, , .		1
40	FPGA Implementation of a Data-Driven Stochastic Biochemical Simulator with the Next Reaction Method. , 2007, , .		12
41	Deduction of intracellular sub-systems from a topological description of the network. Molecular BioSystems, 2007, 3, 523.	2.9	8
42	ReCSiP: An FPGA-based general-purpose biochemical simulator. Electronics and Communications in Japan, 2007, 90, 1-10.	0.2	9
43	Kinetics of Dimension-Restricted Conditions. , 2007, , 261-281.		2
44	Performance Evaluation of an Fpga-Based Biochemical Simulator ReCSip. , 2006, , .		4
45	Comparative studies of suppression of malignant cancer cell phenotype by antisense oligo DNA and small interfering RNA. Cancer Gene Therapy, 2006, 13, 7-12.	2.2	15
46	An FPGA Implementation of High Throughput Stochastic Simulator for Large-Scale Biochemical Systems. , 2006, , .		8
47	Mammalian Rcd1 is a novel transcriptional cofactor that mediates retinoic acid-induced cell differentiation. EMBO Journal, 2002, 21, 5235-5244.	3.5	42
48	Fas-mediated apoptosis in Jurkat cells is suppressed in the pre-G2/M phase. Apoptosis: an International Journal on Programmed Cell Death, 1999, 4, 255-261.	2.2	5
49	An FPGA-Based, Multi-model Simulation Method for Biochemical Systems. , 0, , .		4
50	Efficient scheduling of rate law functions for ODE-based multimodal biochemical simulation on an FPGA. , 0, , .		7
51	The design of scalable stochastic biochemical simulator on FPGA. , 0, , .		3
52	Framework for ode-based multimodel biochemical simulations on an FPGA. , 0, , .		4