

Jeanette Hellgren Kotaleski

List of Publications by Year in descending order

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44
papers

1,423
citations

361413

20
h-index

377865

34
g-index

53
all docs

53
docs citations

53
times ranked

1632
citing authors

#	ARTICLE	IF	CITATIONS
1	A Standards Organization for Open and FAIR Neuroscience: the International Neuroinformatics Coordinating Facility. <i>Neuroinformatics</i> , 2022, 20, 25-36.	2.8	26
2	A Modular Workflow for Model Building, Analysis, and Parameter Estimation in Systems Biology and Neuroscience. <i>Neuroinformatics</i> , 2022, 20, 241-259.	2.8	3
3	Transient Response of Basal Ganglia Network in Healthy and Low-Dopamine State. <i>ENeuro</i> , 2022, 9, ENEURO.0376-21.2022.	1.9	8
4	Data-Driven Model of Postsynaptic Currents Mediated by NMDA or AMPA Receptors in Striatal Neurons. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, .	2.1	2
5	Reciprocal interaction between striatal cholinergic and low-threshold spiking interneurons – A computational study. <i>European Journal of Neuroscience</i> , 2021, 53, 2135-2148.	2.6	10
6	Predicting complex spikes in striatal projection neurons of the direct pathway following neuromodulation by acetylcholine and dopamine. <i>European Journal of Neuroscience</i> , 2021, 53, 2117-2134.	2.6	11
7	Predicting Synaptic Connectivity for Large-Scale Microcircuit Simulations Using Snudda. <i>Neuroinformatics</i> , 2021, 19, 685-701.	2.8	5
8	Dopaminergic and Cholinergic Modulation of Large Scale Networks in silico Using Snudda. <i>Frontiers in Neural Circuits</i> , 2021, 15, 748989.	2.8	1
9	AKAP79 enables calcineurin to directly suppress protein kinase A activity. <i>ELife</i> , 2021, 10, .	6.0	6
10	Basal Ganglia – A Motion Perspective. , 2020, 10, 1241-1275.		16
11	The microcircuits of striatum in silico. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9554-9565.	7.1	69
12	Uncertainty quantification, propagation and characterization by Bayesian analysis combined with global sensitivity analysis applied to dynamical intracellular pathway models. <i>Bioinformatics</i> , 2019, 35, 284-292.	4.1	22
13	Regulation of adenylyl cyclase 5 in striatal neurons confers the ability to detect coincident neuromodulatory signals. <i>PLoS Computational Biology</i> , 2019, 15, e1007382.	3.2	16
14	Roles for globus pallidus externa revealed in a computational model of action selection in the basal ganglia. <i>Neural Networks</i> , 2019, 109, 113-136.	5.9	34
15	Molecular mechanisms underlying striatal synaptic plasticity: relevance to chronic alcohol consumption and seeking. <i>European Journal of Neuroscience</i> , 2019, 49, 768-783.	2.6	19
16	Switch-like PKA responses in the nucleus of striatal neurons. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	14
17	Basal Ganglia Neuromodulation Over Multiple Temporal and Structural Scales – Simulations of Direct Pathway MSNs Investigate the Fast Onset of Dopaminergic Effects and Predict the Role of Kv4.2. <i>Frontiers in Neural Circuits</i> , 2018, 12, 3.	2.8	34
18	Cell-type-specific inhibition of the dendritic plateau potential in striatal spiny projection neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7612-E7621.	7.1	53

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19	Multirate method for co-simulation of electrical-chemical systems in multiscale modeling. <i>Journal of Computational Neuroscience</i> , 2017, 42, 245-256.	1.0	2
20	Detection of phasic dopamine by D1 and D2 striatal medium spiny neurons. <i>Journal of Physiology</i> , 2017, 595, 7451-7475.	2.9	82
21	Homologous Basal Ganglia Network Models in Physiological and Parkinsonian Conditions. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 79.	2.1	14
22	Interplay between periodic stimulation and GABAergic inhibition in striatal network oscillations. <i>PLoS ONE</i> , 2017, 12, e0175135.	2.5	10
23	A single Markov-type kinetic model accounting for the macroscopic currents of all human voltage-gated sodium channel isoforms. <i>PLoS Computational Biology</i> , 2017, 13, e1005737.	3.2	23
24	Efficient Integration of Coupled Electrical-Chemical Systems in Multiscale Neuronal Simulations. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 97.	2.1	5
25	Untangling Cortico-Striatal Connectivity and Cross-Frequency Coupling in L-DOPA-Induced Dyskinesia. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 26.	2.5	38
26	Role of DARPP-32 and ARPP-21 in the Emergence of Temporal Constraints on Striatal Calcium and Dopamine Integration. <i>PLoS Computational Biology</i> , 2016, 12, e1005080.	3.2	29
27	Untangling Basal Ganglia Network Dynamics and Function: Role of Dopamine Depletion and Inhibition Investigated in a Spiking Network Model. <i>ENeuro</i> , 2016, 3, ENEURO.0156-16.2016.	1.9	49
28	Sensing Positive versus Negative Reward Signals through Adenylyl Cyclase-Coupled GPCRs in Direct and Indirect Pathway Striatal Medium Spiny Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 14017-14030.	3.6	52
29	A Diffusive Homeostatic Signal Maintains Neural Heterogeneity and Responsiveness in Cortical Networks. <i>PLoS Computational Biology</i> , 2015, 11, e1004389.	3.2	21
30	Segregation and Crosstalk of D1 Receptor-Mediated Activation of ERK in Striatal Medium Spiny Neurons upon Acute Administration of Psychostimulants. <i>PLoS Computational Biology</i> , 2014, 10, e1003445.	3.2	21
31	Signal enhancement in the output stage of the basal ganglia by synaptic short-term plasticity in the direct, indirect, and hyperdirect pathways. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 76.	2.1	24
32	Striatal Fast-Spiking Interneurons: From Firing Patterns to Postsynaptic Impact. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 57.	2.5	32
33	Run-Time Interoperability Between Neuronal Network Simulators Based on the MUSIC Framework. <i>Neuroinformatics</i> , 2010, 8, 43-60.	2.8	88
34	Modelling the molecular mechanisms of synaptic plasticity using systems biology approaches. <i>Nature Reviews Neuroscience</i> , 2010, 11, 239-251.	10.2	165
35	Postsynaptic Signal Transduction Models for Long-Term Potentiation and Depression. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 152.	2.1	46
36	Gap Junctions between Striatal Fast-Spiking Interneurons Regulate Spiking Activity and Synchronization as a Function of Cortical Activity. <i>Journal of Neuroscience</i> , 2009, 29, 5276-5286.	3.6	95

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37	Modelling and sensitivity analysis of the reactions involving receptor, G-protein and effector in vertebrate olfactory receptor neurons. <i>Journal of Computational Neuroscience</i> , 2009, 27, 471-491.	1.0	16
38	Transient Calcium and Dopamine Increase PKA Activity and DARPP-32 Phosphorylation. <i>PLoS Computational Biology</i> , 2006, 2, e119.	3.2	97
39	Modeling of substance P and 5-HT induced synaptic plasticity in the lamprey spinal CPG: consequences for network pattern generation. <i>Journal of Computational Neuroscience</i> , 2001, 11, 183-200.	1.0	27
40	Neural mechanisms potentially contributing to the intersegmental phase lag in lamprey. <i>Biological Cybernetics</i> , 1999, 81, 299-315.	1.3	48
41	Neural mechanisms potentially contributing to the intersegmental phase lag in lamprey. <i>Biological Cybernetics</i> , 1999, 81, 317-330.	1.3	43
42	Modeling of the Spinal Neuronal Circuitry Underlying Locomotion in a Lower Vertebrate. <i>Annals of the New York Academy of Sciences</i> , 1998, 860, 239-249.	3.8	23
43	Multiscale molecular simulations to investigate adenylyl cyclase-based signaling in the brain. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 0, , .	14.6	2
44	Combining hypothesis- and data-driven neuroscience modeling in FAIR workflows. <i>ELife</i> , 0, 11, .	6.0	15