

# Balázs Hangya

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,606  
citations

304368

22  
h-index

377514

34  
g-index

49  
all docs

49  
docs citations

49  
times ranked

4714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical interneurons that specialize in disinhibitory control. <i>Nature</i> , 2013, 503, 521-524.	13.7	936
2	Phase Entrainment of Human Delta Oscillations Can Mediate the Effects of Expectation on Reaction Speed. <i>Journal of Neuroscience</i> , 2010, 30, 13578-13585.	1.7	364
3	Central Cholinergic Neurons Are Rapidly Recruited by Reinforcement Feedback. <i>Cell</i> , 2015, 162, 1155-1168.	13.5	352
4	GABAergic Neurons of the Medial Septum Lead the Hippocampal Network during Theta Activity. <i>Journal of Neuroscience</i> , 2009, 29, 8094-8102.	1.7	262
5	Fast Synaptic Subcortical Control of Hippocampal Circuits. <i>Science</i> , 2009, 326, 449-453.	6.0	217
6	Signatures of a Statistical Computation in the Human Sense of Confidence. <i>Neuron</i> , 2016, 90, 499-506.	3.8	212
7	Convergence of Cortical and Sensory Driver Inputs on Single Thalamocortical Cells. <i>Cerebral Cortex</i> , 2014, 24, 3167-3179.	1.6	147
8	The presence of pacemaker HCN channels identifies theta rhythmic GABAergic neurons in the medial septum. <i>Journal of Physiology</i> , 2008, 586, 3893-3915.	1.3	103
9	Microglia modulate blood flow, neurovascular coupling, and hypoperfusion via purinergic actions. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	94
10	Cholinergic modulation of spatial learning, memory and navigation. <i>European Journal of Neuroscience</i> , 2018, 48, 2199-2230.	1.2	89
11	A Mathematical Framework for Statistical Decision Confidence. <i>Neural Computation</i> , 2016, 28, 1840-1858.	1.3	84
12	From circuit motifs to computations: mapping the behavioral repertoire of cortical interneurons. <i>Current Opinion in Neurobiology</i> , 2014, 26, 117-124.	2.0	81
13	Multiple Modes of Phase Locking between Sniffing and Whisking during Active Exploration. <i>Journal of Neuroscience</i> , 2013, 33, 8250-8256.	1.7	78
14	A subcortical inhibitory signal for behavioral arrest in the thalamus. <i>Nature Neuroscience</i> , 2015, 18, 562-568.	7.1	68
15	Distinct synchronization, cortical coupling and behavioral function of two basal forebrain cholinergic neuron types. <i>Nature Neuroscience</i> , 2020, 23, 992-1003.	7.1	58
16	Phase Advancement and Nucleus-Specific Timing of Thalamocortical Activity during Slow Cortical Oscillation. <i>Journal of Neuroscience</i> , 2011, 31, 607-617.	1.7	55
17	Dual-transmitter systems regulating arousal, attention, learning and memory. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 85, 21-33.	2.9	55
18	Phasic, Nonsynaptic GABA-A Receptor-Mediated Inhibition Entrain Thalamocortical Oscillations. <i>Journal of Neuroscience</i> , 2014, 34, 7137-7147.	1.7	46

#	ARTICLE	IF	CITATIONS
19	Theta Phase Classification of Interneurons in the Hippocampal Formation of Freely Moving Rats. <i>Journal of Neuroscience</i> , 2011, 31, 2938-2947.	1.7	44
20	Complex Propagation Patterns Characterize Human Cortical Activity during Slow-Wave Sleep. <i>Journal of Neuroscience</i> , 2011, 31, 8770-8779.	1.7	38
21	Complementary spatial firing in place cell-interneuron pairs. <i>Journal of Physiology</i> , 2010, 588, 4165-4175.	1.3	35
22	Independence of landmark and self-motion-guided navigation: a different role for grid cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130370.	1.8	30
23	Open Source Tools for Temporally Controlled Rodent Behavior Suitable for Electrophysiology and Optogenetic Manipulations. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 18.	1.2	30
24	Two-photon GCaMP6f imaging of infrared neural stimulation evoked calcium signals in mouse cortical neurons in vivo. <i>Scientific Reports</i> , 2021, 11, 9775.	1.6	19
25	Increased antigen presentation and Th1 polarization in genetically histamine-free mice. <i>International Immunology</i> , 2006, 19, 51-58.	1.8	15
26	In vivo localization of chronically implanted electrodes and optic fibers in mice. <i>Nature Communications</i> , 2020, 11, 4686.	5.8	15
27	Monitoring the Right Collection: The Central Cholinergic Neurons as an Instructive Example. <i>Frontiers in Neural Circuits</i> , 2017, 11, 31.	1.4	14
28	Efficient training of mice on the 5-choice serial reaction time task in an automated rodent training system. <i>Scientific Reports</i> , 2020, 10, 22362.	1.6	11
29	Vision: How to Train Visual Cortex to Predict Reward Time. <i>Current Biology</i> , 2015, 25, R490-R492.	1.8	7
30	OPETH: Open Source Solution for Real-Time Peri-Event Time Histogram Based on Open Ephys. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 21.	1.3	7
31	Repetitive Convulsant-Induced Seizures Reduce the Number But Not Precision of Hippocampal Place Cells. <i>Journal of Neuroscience</i> , 2012, 32, 4163-4178.	1.7	6
32	Differential recruitment of ventral pallidal e-types by behaviorally salient stimuli during Pavlovian conditioning. <i>iScience</i> , 2021, 24, 102377.	1.9	6
33	Cartographers of the Cognitive Map: Locus Coeruleus Is Part of the Guild. <i>Neuron</i> , 2020, 105, 951-953.	3.8	3
34	Training protocol for probabilistic Pavlovian conditioning in mice using an open-source head-fixed setup. <i>STAR Protocols</i> , 2021, 2, 100795.	0.5	3
35	Huygens Synchronization of Medial Septal Pacemaker Neurons Generates Hippocampal Theta Oscillation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
36	Navigating the Statistical Minefield of Model Selection and Clustering in Neuroscience. <i>ENeuro</i> , 2022, 9, ENEURO.0066-22.2022.	0.9	1

#	ARTICLE	IF	CITATIONS
37	Guardians of the learning gate. <i>Nature Neuroscience</i> , 2019, 22, 1747-1748.	7.1	0
38	Differential Recruitment of Ventral Pallidal E-Types by Behaviorally Salient Stimuli During Pavlovian Conditioning. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0