

# Jan-oliver Hollnagel

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,682  
citations

186265

28  
h-index

189892

50  
g-index

51  
all docs

51  
docs citations

51  
times ranked

5233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Priming of microglia by type II interferon is lasting and resistant to modulation by interleukin-10 in situ. <i>Journal of Neuroimmunology</i> , 2022, 368, 577881.	2.3	3
2	Microglia and lipids: how metabolism controls brain innate immunity. <i>Seminars in Cell and Developmental Biology</i> , 2021, 112, 137-144.	5.0	75
3	TLR2- and TLR3-activated microglia induce different levels of neuronal network dysfunction in a context-dependent manner. <i>Brain, Behavior, and Immunity</i> , 2021, 96, 80-91.	4.1	32
4	The mitochondrial calcium uniporter is crucial for the generation of fast cortical network rhythms. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2225-2239.	4.3	20
5	Mild metabolic stress is sufficient to disturb the formation of pyramidal cell ensembles during gamma oscillations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2401-2415.	4.3	11
6	Lactate Attenuates Synaptic Transmission and Affects Brain Rhythms Featuring High Energy Expenditure. <i>IScience</i> , 2020, 23, 101316.	4.1	33
7	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 609-633.	46.4	441
8	GM-CSF induces noninflammatory proliferation of microglia and disturbs electrical neuronal network rhythms in situ. <i>Journal of Neuroinflammation</i> , 2020, 17, 235.	7.2	34
9	Synchronicity of excitatory inputs drives hippocampal networks to distinct oscillatory patterns. <i>Hippocampus</i> , 2020, 30, 1044-1057.	1.9	6
10	Neuronal gamma oscillations and activity-dependent potassium transients remain regular after depletion of microglia in postnatal cortex tissue. <i>Journal of Neuroscience Research</i> , 2020, 98, 1953-1967.	2.9	8
11	Selective inhibition of mitochondrial respiratory complexes controls the transition of microglia into a neurotoxic phenotype in situ. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 802-814.	4.1	36
12	Persistent increase in ventral hippocampal long-term potentiation by juvenile stress: A role for astrocytic glutamine synthetase. <i>Glia</i> , 2019, 67, 2279-2293.	4.9	10
13	Priming of microglia with IFN- $\beta$ slows neuronal gamma oscillations in situ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4637-4642.	7.1	87
14	Early alterations in hippocampal perisomatic GABAergic synapses and network oscillations in a mouse model of Alzheimer's disease amyloidosis. <i>PLoS ONE</i> , 2019, 14, e0209228.	2.5	66
15	Local oxygen homeostasis during various neuronal network activity states in the mouse hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 859-873.	4.3	26
16	astrocytic glutamine synthetase is expressed in the neuronal somatic layers and down-regulated proportionally to neuronal loss in the human epileptic hippocampus. <i>Glia</i> , 2018, 66, 920-933.	4.9	27
17	Metabolic modulation of neuronal gamma-band oscillations. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1377-1389.	2.8	10
18	Possible neurotoxicity of the anesthetic propofol: evidence for the inhibition of complex II of the respiratory chain in area CA3 of rat hippocampal slices. <i>Archives of Toxicology</i> , 2018, 92, 3191-3205.	4.2	33

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19	Energy and Potassium Ion Homeostasis during Gamma Oscillations. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 47.	2.9	26
20	Brain Endothelial- and Epithelial-Specific Interferon Receptor Chain 1 Drives Virus-Induced Sickness Behavior and Cognitive Impairment. <i>Immunity</i> , 2016, 44, 901-912.	14.3	143
21	Adenosine A <sub>1</sub> receptor-mediated suppression of carbamazepine-resistant seizure-like events in human neocortical slices. <i>Epilepsia</i> , 2016, 57, 746-756.	5.1	30
22	Synaptic plasticity in area CA1 of rat hippocampal slices following intraventricular application of albumin. <i>Neurobiology of Disease</i> , 2016, 91, 155-165.	4.4	19
23	Identification of Parvalbumin Interneurons as Cellular Substrate of Fear Memory Persistence. <i>Cerebral Cortex</i> , 2016, 26, 2325-2340.	2.9	79
24	TLR4-activated microglia require IFN- $\gamma$ to induce severe neuronal dysfunction and death in situ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 212-217.	7.1	160
25	Serotonin dependent masking of hippocampal sharp wave ripples. <i>Neuropharmacology</i> , 2016, 101, 188-203.	4.1	20
26	The interneuron energy hypothesis: Implications for brain disease. <i>Neurobiology of Disease</i> , 2016, 90, 75-85.	4.4	197
27	Drug Resistance in Cortical and Hippocampal Slices from Resected Tissue of Epilepsy Patients: No Significant Impact of P-Glycoprotein and Multidrug Resistance-Associated Proteins. <i>Frontiers in Neurology</i> , 2015, 6, 30.	2.4	55
28	Long-term changes in the CA3 associative network of fear-conditioned mice. <i>Stress</i> , 2015, 18, 188-197.	1.8	5
29	Gating of hippocampal output by $\beta_2$ -adrenergic receptor activation in the pilocarpine model of epilepsy. <i>Neuroscience</i> , 2015, 286, 325-337.	2.3	4
30	Physiology-Based Kinetic Modeling of Neuronal Energy Metabolism Unravels the Molecular Basis of NAD(P)H Fluorescence Transients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1494-1506.	4.3	38
31	A reliable model for gamma oscillations in hippocampal tissue. <i>Journal of Neuroscience Research</i> , 2015, 93, 1067-1078.	2.9	32
32	No evidence for role of extracellular choline-acetyltransferase in generation of gamma oscillations in rat hippocampal slices in vitro. <i>Neuroscience</i> , 2015, 284, 459-469.	2.3	6
33	Energy substrates that fuel fast neuronal network oscillations. <i>Frontiers in Neuroscience</i> , 2014, 8, 398.	2.8	50
34	Highly Energized Inhibitory Interneurons are a Central Element for Information Processing in Cortical Networks. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1270-1282.	4.3	219
35	GABAB receptor dependent modulation of sharp wave-ripple complexes in the rat hippocampus in vitro. <i>Neuroscience Letters</i> , 2014, 574, 15-20.	2.1	17
36	Oxygen Consumption Rates during Three Different Neuronal Activity States in the Hippocampal CA3 Network. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 263-271.	4.3	63

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37	Energy Demand of Synaptic Transmission at the Hippocampal Schaffer-Collateral Synapse. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 2076-2083.	4.3	37
38	Muscarinic receptor activation determines the effects of store-operated Ca <sup>2+</sup> -entry on excitability and energy metabolism in pyramidal neurons. Cell Calcium, 2012, 51, 40-50.	2.4	16
39	Partial Disinhibition Is Required for Transition of Stimulus-Induced Sharp Waveâ€“Ripple Complexes Into Recurrent Epileptiform Discharges in Rat Hippocampal Slices. Journal of Neurophysiology, 2011, 105, 172-187.	1.8	51
40	Redistribution of astrocytic glutamine synthetase in the hippocampus of chronic epileptic rats. Glia, 2011, 59, 1706-1718.	4.9	41
41	Gamma oscillations in the hippocampus require high complex I gene expression and strong functional performance of mitochondria. Brain, 2011, 134, 345-358.	7.6	156
42	The Energy Demand of Fast Neuronal Network Oscillations: Insights from Brain Slice Preparations. Frontiers in Pharmacology, 2011, 2, 90.	3.5	37
43	Endogenous Nitric Oxide Is a Key Promoting Factor for Initiation of Seizure-Like Events in Hippocampal and Entorhinal Cortex Slices. Journal of Neuroscience, 2009, 29, 8565-8577.	3.6	86
44	Gamma Oscillations and Spontaneous Network Activity in the Hippocampus Are Highly Sensitive to Decreases in pO <sub>2</sub> and Concomitant Changes in Mitochondrial Redox State. Journal of Neuroscience, 2008, 28, 1153-1162.	3.6	101
45	Mitochondria and neuronal activity. American Journal of Physiology - Cell Physiology, 2007, 292, C641-C657.	4.6	673
46	Carbamazepine-resistance in the epileptic dentate gyrus of human hippocampal slices. Brain, 2006, 129, 3290-3306.	7.6	63
47	Metabolic dysfunction during neuronal activation in the ex vivo hippocampus from chronic epileptic rats and humans. Brain, 2005, 128, 2396-2407.	7.6	123
48	Metabotropic Receptor-Mediated Ca <sup>2+</sup> Signaling Elevates Mitochondrial Ca <sup>2+</sup> and Stimulates Oxidative Metabolism in Hippocampal Slice Cultures. Journal of Neurophysiology, 2003, 90, 613-621.	1.8	35
49	Monitoring NAD(P)H autofluorescence to assess mitochondrial metabolic functions in rat hippocampalâ€“entorhinal cortex slices. Brain Research Protocols, 2001, 7, 267-276.	1.6	68
50	The protein tyrosine kinase inhibitor AG126 prevents the massive microglial cytokine induction by pneumococcal cell walls. European Journal of Immunology, 2001, 31, 2104-2115.	2.9	74