

# Paul S Buckmaster

## List of Publications by Year in descending order

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74  
papers

5,959  
citations

76326

40  
h-index

95266

68  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuron loss, granule cell axon reorganization, and functional changes in the dentate gyrus of epileptic kainate-treated rats. <i>Journal of Comparative Neurology</i> , 1997, 385, 385-404.	1.6	454
2	Recurrent spontaneous motor seizures after repeated low-dose systemic treatment with kainate: assessment of a rat model of temporal lobe epilepsy. <i>Epilepsy Research</i> , 1998, 31, 73-84.	1.6	340
3	Reduced Inhibition of Dentate Granule Cells in a Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2003, 23, 2440-2452.	3.6	340
4	Axon Sprouting in a Model of Temporal Lobe Epilepsy Creates a Predominantly Excitatory Feedback Circuit. <i>Journal of Neuroscience</i> , 2002, 22, 6650-6658.	3.6	280
5	Highly Specific Neuron Loss Preserves Lateral Inhibitory Circuits in the Dentate Gyrus of Kainate-Induced Epileptic Rats. <i>Journal of Neuroscience</i> , 1999, 19, 9519-9529.	3.6	250
6	Identification of new epilepsy treatments: Issues in preclinical methodology. <i>Epilepsia</i> , 2012, 53, 571-582.	5.1	219
7	Inhibition of the Mammalian Target of Rapamycin Signaling Pathway Suppresses Dentate Granule Cell Axon Sprouting in a Rodent Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2009, 29, 8259-8269.	3.6	211
8	Axon arbors and synaptic connections of hippocampal mossy cells in the rat in vivo. <i>Journal of Comparative Neurology</i> , 1996, 366, 270-292.	1.6	206
9	Rapamycin Suppresses Mossy Fiber Sprouting But Not Seizure Frequency in a Mouse Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2011, 31, 2337-2347.	3.6	204
10	Distinct Neuronal Coding Schemes in Memory Revealed by Selective Erasure of Fast Synchronous Synaptic Transmission. <i>Neuron</i> , 2012, 73, 990-1001.	8.1	165
11	Network Properties of the Dentate Gyrus in Epileptic Rats With Hilar Neuron Loss and Granule Cell Axon Reorganization. <i>Journal of Neurophysiology</i> , 1997, 77, 2685-2696.	1.8	162
12	In Vivo Intracellular Analysis of Granule Cell Axon Reorganization in Epileptic Rats. <i>Journal of Neurophysiology</i> , 1999, 81, 712-721.	1.8	159
13	Mossy cell axonal projections to the dentate gyrus molecular layer in the rat hippocampal slice. <i>Hippocampus</i> , 1992, 2, 349-362.	1.9	155
14	Hyperexcitability, Interneurons, and Loss of GABAergic Synapses in Entorhinal Cortex in a Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2006, 26, 4613-4623.	3.6	153
15	Early Activation of Ventral Hippocampus and Subiculum during Spontaneous Seizures in a Rat Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2013, 33, 11100-11115.	3.6	151
16	Hippocampal mossy cell function: A speculative view. <i>Hippocampus</i> , 1994, 4, 393-402.	1.9	123
17	Surviving Hilar Somatostatin Interneurons Enlarge, Sprout Axons, and Form New Synapses with Granule Cells in a Mouse Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2009, 29, 14247-14256.	3.6	121
18	Reduced Inhibition and Increased Output of Layer II Neurons in the Medial Entorhinal Cortex in a Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2003, 23, 8471-8479.	3.6	106

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19	High-dose rapamycin blocks mossy fiber sprouting but not seizures in a mouse model of temporal lobe epilepsy. <i>Epilepsia</i> , 2013, 54, 1535-1541.	5.1	104
20	Initial loss but later excess of GABAergic synapses with dentate granule cells in a rat model of temporal lobe epilepsy. <i>Journal of Comparative Neurology</i> , 2010, 518, 647-667.	1.6	91
21	Stress coping stimulates hippocampal neurogenesis in adult monkeys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14823-14827.	7.1	89
22	Unit Activity of Hippocampal Interneurons before Spontaneous Seizures in an Animal Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2015, 35, 6600-6618.	3.6	89
23	Ultrastructural localization of neurotransmitter immunoreactivity in mossy cell axons and their synaptic targets in the rat dentate gyrus. , 1997, 7, 559-570.		85
24	Changes in Granule Cell Firing Rates Precede Locally Recorded Spontaneous Seizures by Minutes in an Animal Model of Temporal Lobe Epilepsy. <i>Journal of Neurophysiology</i> , 2008, 99, 2431-2442.	1.8	79
25	Does Mossy Fiber Sprouting Give Rise to the Epileptic State?. <i>Advances in Experimental Medicine and Biology</i> , 2014, 813, 161-168.	1.6	73
26	Laboratory animal models of temporal lobe epilepsy. <i>Comparative Medicine</i> , 2004, 54, 473-85.	1.0	73
27	Recurrent excitation of granule cells with basal dendrites and low interneuron density and inhibitory postsynaptic current frequency in the dentate gyrus of macaque monkeys. <i>Journal of Comparative Neurology</i> , 2004, 476, 205-218.	1.6	72
28	Recurrent Circuits in Layer II of Medial Entorhinal Cortex in a Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2007, 27, 1239-1246.	3.6	72
29	Intracellular recording and labeling of mossy cells and proximal CA3 pyramidal cells in macaque monkeys. <i>Journal of Comparative Neurology</i> , 2001, 430, 264-281.	1.6	66
30	Preictal Activity of Subicular, CA1, and Dentate Gyrus Principal Neurons in the Dorsal Hippocampus before Spontaneous Seizures in a Rat Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2014, 34, 16671-16687.	3.6	65
31	Heightened seizure severity in somatostatin knockout mice. <i>Epilepsy Research</i> , 2002, 48, 43-56.	1.6	63
32	Axon arbors and synaptic connections of a vulnerable population of interneurons in the dentate gyrus in vivo. <i>Journal of Comparative Neurology</i> , 2002, 445, 360-373.	1.6	62
33	Dysfunction of the Dentate Basket Cell Circuit in a Rat Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2009, 29, 7846-7856.	3.6	62
34	Increased Excitatory Synaptic Input to Granule Cells from Hilar and CA3 Regions in a Rat Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2012, 32, 1183-1196.	3.6	58
35	Seizure frequency correlates with loss of dentate gyrus GABAergic neurons in a mouse model of temporal lobe epilepsy. <i>Journal of Comparative Neurology</i> , 2017, 525, 2592-2610.	1.6	55
36	Somatostatin-immunoreactivity in the hippocampus of mouse, rat, guinea pig, and rabbit. <i>Hippocampus</i> , 1994, 4, 167-180.	1.9	54

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37	Synaptic input to dentate granule cell basal dendrites in a rat model of temporal lobe epilepsy. <i>Journal of Comparative Neurology</i> , 2008, 509, 190-202.	1.6	53
38	Rapamycin suppresses axon sprouting by somatostatin interneurons in a mouse model of temporal lobe epilepsy. <i>Epilepsia</i> , 2011, 52, 2057-2064.	5.1	51
39	Hippocampal neuropathology of domoic acid-induced epilepsy in California sea lions ( <i>Zalophus</i> ). <i>Journal of Comparative Neurology</i> , 2008, 509, 190-202.	1.6	51
40	Dendritic morphology, local circuitry, and intrinsic electrophysiology of principal neurons in the entorhinal cortex of macaque monkeys. <i>Journal of Comparative Neurology</i> , 2004, 470, 317-329.	1.6	45
41	Physiological and Morphological Heterogeneity of Dentate Gyrus-Hilus Interneurons in the Gerbil Hippocampus. <i>In Vivo</i> . <i>European Journal of Neuroscience</i> , 1995, 7, 1393-1402.	2.6	44
42	Excitatory Input Onto Hilar Somatostatin Interneurons Is Increased in a Chronic Model of Epilepsy. <i>Journal of Neurophysiology</i> , 2010, 104, 2214-2223.	1.8	44
43	Stereological analysis of forebrain regions in kainate-treated epileptic rats. <i>Brain Research</i> , 2005, 1057, 141-152.	2.2	41
44	Mossy Fiber Sprouting in the Dentate Gyrus. <i>Epilepsia</i> , 2012, 53, 416-431.		40
45	Factors affecting outcomes of pilocarpine treatment in a mouse model of temporal lobe epilepsy. <i>Epilepsy Research</i> , 2012, 102, 153-159.	1.6	39
46	Testing the Disinhibition Hypothesis of Epileptogenesis In Vivo and during Spontaneous Seizures. <i>Journal of Neuroscience</i> , 2000, 20, 6232-6240.	3.6	36
47	Hilar somatostatin interneuron loss reduces dentate gyrus inhibition in a mouse model of temporal lobe epilepsy. <i>Epilepsia</i> , 2016, 57, 977-983.	5.1	36
48	Absence of Temporal Lobe Epilepsy Pathology in Dogs with Medically Intractable Epilepsy. <i>Journal of Veterinary Internal Medicine</i> , 2002, 16, 95-99.	1.6	29
49	Evoked Responses of the Dentate Gyrus During Seizures in Developing Gerbils With Inherited Epilepsy. <i>Journal of Neurophysiology</i> , 2002, 88, 783-793.	1.8	29
50	Blockade of excitatory synaptogenesis with proximal dendrites of dentate granule cells following rapamycin treatment in a mouse model of temporal lobe epilepsy. <i>Journal of Comparative Neurology</i> , 2015, 523, 281-297.	1.6	26
51	Mossy cell dendritic structure quantified and compared with other hippocampal neurons labeled in rats in vivo. <i>Epilepsia</i> , 2012, 53, 9-17.	5.1	24
52	Is there a critical period for mossy fiber sprouting in a mouse model of temporal lobe epilepsy?. <i>Epilepsia</i> , 2011, 52, 2326-2332.	5.1	23
53	Prolonged Infusion of Tetrodotoxin Does Not Block Mossy Fiber Sprouting in Pilocarpine-treated Rats. <i>Epilepsia</i> , 2004, 45, 452-458.	5.1	20
54	Neuron loss and axon reorganization in the dentate gyrus of cats infected with the feline immunodeficiency virus. <i>Journal of Comparative Neurology</i> , 1999, 411, 563-577.	1.6	19

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55	Somatostatin-immunoreactive interneurons contribute to lateral inhibitory circuits in the dentate gyrus of control and epileptic rats. <i>Hippocampus</i> , 2001, 11, 418-422.	1.9	18
56	Absence of Temporal Lobe Epilepsy Pathology in Dogs with Medically Intractable Epilepsy. <i>Journal of Veterinary Internal Medicine</i> , 2002, 16, 95.	1.6	17
57	Prolonged Infusion of Cycloheximide Does Not Block Mossy Fiber Sprouting in a Model of Temporal Lobe Epilepsy. <i>Epilepsia</i> , 2005, 46, 1017-1020.	5.1	16
58	Surviving mossy cells enlarge and receive more excitatory synaptic input in a mouse model of temporal lobe epilepsy. <i>Hippocampus</i> , 2015, 25, 594-604.	1.9	16
59	More Docked Vesicles and Larger Active Zones at Basket Cell-to-Granule Cell Synapses in a Rat Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2016, 36, 3295-3308.	3.6	15
60	Ictal onset sites and $\gamma$ -aminobutyric acidergic neuron loss in epileptic pilocarpine-treated rats. <i>Epilepsia</i> , 2020, 61, 856-867.	5.1	15
61	Mossy fiber sprouting in the dentate gyrus. <i>Epilepsia</i> , 2010, 51, 39-39.	5.1	14
62	Proportional loss of parvalbumin-immunoreactive synaptic boutons and granule cells from the hippocampus of sea lions with temporal lobe epilepsy. <i>Journal of Comparative Neurology</i> , 2019, 527, 2341-2355.	1.6	12
63	Inherited Epilepsy in Mongolian Gerbils. , 2006, , 273-294.		11
64	Prolonged infusion of inhibitors of calcineurin or L-type calcium channels does not block mossy fiber sprouting in a model of temporal lobe epilepsy. <i>Epilepsia</i> , 2009, 50, 56-64.	5.1	10
65	Non-invasive, neurotoxic surgery reduces seizures in a rat model of temporal lobe epilepsy. <i>Experimental Neurology</i> , 2021, 343, 113761.	4.1	6
66	Lack of Hyperinhibition of Oriens Lacunosum-Moleculare Cells by Vasoactive Intestinal Peptide-Expressing Cells in a Model of Temporal Lobe Epilepsy. <i>ENeuro</i> , 2021, 8, ENEURO.0299-21.2021.	1.9	6
67	GABAA Receptor-Mediated IPSCs and $\pm 1$ Subunit Expression Are Not Reduced in the Substantia Nigra Pars Reticulata of Gerbils With Inherited Epilepsy. <i>Journal of Neurophysiology</i> , 2006, 95, 2446-2455.	1.8	5
68	Does a Unique Type of CA3 Pyramidal Cell in Primates Bypass the Dentate Gate?. <i>Journal of Neurophysiology</i> , 2005, 94, 896-900.	1.8	4
69	A single subconvulsant dose of domoic acid at mid-gestation does not cause temporal lobe epilepsy in mice. <i>NeuroToxicology</i> , 2018, 66, 128-137.	3.0	4
70	Testing Different Combinations of Acoustic Pressure and Doses of Quinolinic Acid for Induction of Focal Neuron Loss in Mice Using Transcranial Low-Intensity Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 129-136.	1.5	3
71	Seizure-induced basal dendrites on granule cells. <i>Epilepsia</i> , 2010, 51, 43-43.	5.1	2
72	Comparative Biology and Species Effects on Expression of Epilepsy. , 2017, , 7-19.		1

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73	Naturally Occurring Epilepsy and Status Epilepticus in Sea Lions. , 2017, , 413-425.		1
74	Cannabinoid receptor 1-labeled boutons in the sclerotic dentate gyrus of epileptic sea lions. Epilepsy Research, 2022, 184, 106965.	1.6	0