

Karin Borges

List of Publications by Year in descending order

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67
papers

2,725
citations

147801

31
h-index

189892

50
g-index

68
all docs

68
docs citations

68
times ranked

3398
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal and glial pathological changes during epileptogenesis in the mouse pilocarpine model. <i>Experimental Neurology</i> , 2003, 182, 21-34.	4.1	352
2	Complex alterations in microglial M1/M2 markers during the development of epilepsy in two mouse models. <i>Epilepsia</i> , 2015, 56, 895-905.	5.1	133
3	GENETIC REGULATION OF GLUTAMATE RECEPTOR ION CHANNELS. <i>Annual Review of Pharmacology and Toxicology</i> , 1999, 39, 221-241.	9.4	98
4	Chapter 11 AMPA receptors: Molecular and functional diversity. <i>Progress in Brain Research</i> , 1998, 116, 153-170.	1.4	93
5	Ampa/kainate receptor activation in murine oligodendrocyte precursor cells leads to activation of a cation conductance, calcium influx and blockade of delayed rectifying K ⁺ channels. <i>Neuroscience</i> , 1994, 63, 135-149.	2.3	92
6	Anticonvulsant effects of a triheptanoin diet in two mouse chronic seizure models. <i>Neurobiology of Disease</i> , 2010, 40, 565-572.	4.4	80
7	The deleterious effect of cholesterol and protection by quercetin on mitochondrial bioenergetics of pancreatic β -cells, glycemic control and inflammation: In vitro and in vivo studies. <i>Redox Biology</i> , 2016, 9, 229-243.	9.0	76
8	Metabolic Dysfunctions in Amyotrophic Lateral Sclerosis Pathogenesis and Potential Metabolic Treatments. <i>Frontiers in Neuroscience</i> , 2016, 10, 611.	2.8	73
9	Triheptanoin – A medium chain triglyceride with odd chain fatty acids: A new anaplerotic anticonvulsant treatment?. <i>Epilepsy Research</i> , 2012, 100, 239-244.	1.6	68
10	Degeneration and proliferation of astrocytes in the mouse dentate gyrus after pilocarpine-induced status epilepticus. <i>Experimental Neurology</i> , 2006, 201, 416-427.	4.1	66
11	Chronic acetyl-L-carnitine alters brain energy metabolism and increases noradrenaline and serotonin content in healthy mice. <i>Neurochemistry International</i> , 2012, 61, 100-107.	3.8	65
12	Brain Mitochondrial Metabolic Dysfunction and Glutamate Level Reduction in the Pilocarpine Model of Temporal Lobe Epilepsy in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1090-1097.	4.3	57
13	Sulforaphane is anticonvulsant and improves mitochondrial function. <i>Journal of Neurochemistry</i> , 2015, 135, 932-942.	3.9	56
14	CNS glucose metabolism in Amyotrophic Lateral Sclerosis: a therapeutic target?. <i>Cell and Bioscience</i> , 2021, 11, 14.	4.8	56
15	Anticonvulsant profile of a balanced ketogenic diet in acute mouse seizure models. <i>Epilepsy Research</i> , 2008, 81, 119-127.	1.6	55
16	A novel anticonvulsant mechanism via inhibition of complement receptor C5ar1 in murine epilepsy models. <i>Neurobiology of Disease</i> , 2015, 76, 87-97.	4.4	55
17	Tridecanoin is anticonvulsant, antioxidant, and improves mitochondrial function. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2035-2048.	4.3	55
18	Blockade of K ⁺ channels induced by AMPA/kainate receptor activation in mouse oligodendrocyte precursor cells is mediated by NA ⁺ entry. <i>Journal of Neuroscience Research</i> , 1995, 42, 579-593.	2.9	54

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19	Impairments in Oxidative Glucose Metabolism in Epilepsy and Metabolic Treatments Thereof. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 274.	3.7	54
20	Protective effect of the ketogenic diet in Scn1a mutant mice. <i>Epilepsia</i> , 2011, 52, 2050-2056.	5.1	51
21	Triheptanoin partially restores levels of tricarboxylic acid cycle intermediates in the mouse pilocarpine model of epilepsy. <i>Journal of Neurochemistry</i> , 2014, 129, 107-119.	3.9	49
22	Triheptanoin Protects Motor Neurons and Delays the Onset of Motor Symptoms in a Mouse Model of Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2016, 11, e0161816.	2.5	49
23	Quantitative transcriptional neuroanatomy of the rat hippocampus: Evidence for wide-ranging, pathway-specific heterogeneity among three principal cell layers. <i>Hippocampus</i> , 2009, 19, 253-264.	1.9	48
24	Functional Organization of the GluR1 Glutamate Receptor Promoter. <i>Journal of Biological Chemistry</i> , 2001, 276, 25929-25938.	3.4	46
25	Reciprocal changes of CD44 and GAP-43 expression in the dentate gyrus inner molecular layer after status epilepticus in mice. <i>Experimental Neurology</i> , 2004, 188, 1-10.	4.1	41
26	Gene expression changes after seizure preconditioning in the three major hippocampal cell layers. <i>Neurobiology of Disease</i> , 2007, 26, 66-77.	4.4	41
27	Dietary medium chain triglycerides for management of epilepsy: New data from human, dog, and rodent studies. <i>Epilepsia</i> , 2021, 62, 1790-1806.	5.1	40
28	Astrocyte metabolism of the medium-chain fatty acids octanoic acid and decanoic acid promotes GABA synthesis in neurons via elevated glutamine supply. <i>Molecular Brain</i> , 2021, 14, 132.	2.6	39
29	Alterations in Cytosolic and Mitochondrial [¹³ C]Glucose Metabolism in a Chronic Epilepsy Mouse Model. <i>ENeuro</i> , 2017, 4, ENEURO.0341-16.2017.	1.9	39
30	Neuronal glucose metabolism is impaired while astrocytic TCA cycling is unaffected at symptomatic stages in the hSOD1 ^{G93A} mouse model of amyotrophic lateral sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1710-1724.	4.3	35
31	Triheptanoin in acute mouse seizure models. <i>Epilepsy Research</i> , 2012, 99, 312-317.	1.6	34
32	Triheptanoin reduces seizure susceptibility in a syndrome-specific mouse model of generalized epilepsy. <i>Epilepsy Research</i> , 2013, 103, 101-105.	1.6	33
33	Eicosapentaenoic and docosahexaenoic acids are not anticonvulsant or neuroprotective in acute mouse seizure models. <i>Epilepsia</i> , 2009, 50, 138-142.	5.1	32
34	Sulforaphane Protects against High Cholesterol-Induced Mitochondrial Bioenergetics Impairments, Inflammation, and Oxidative Stress and Preserves Pancreatic β -Cells Function. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14.	4.0	32
35	Adult rat optic nerve oligodendrocyte progenitor cells express a distinct repertoire of voltage- and ligand-gated ion channels. <i>Journal of Neuroscience Research</i> , 1995, 40, 591-605.	2.9	31
36	The ketogenic diet changes metabolite levels in hippocampal extracellular fluid. <i>Neurochemistry International</i> , 2011, 58, 5-8.	3.8	29

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37	A pilot study of add-on oral triheptanoin treatment for children with medically refractory epilepsy. <i>European Journal of Paediatric Neurology</i> , 2018, 22, 1074-1080.	1.6	29
38	Alterations of Hippocampal Glucose Metabolism by Even versus Uneven Medium Chain Triglycerides. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 153-160.	4.3	27
39	Anticonvulsant screening of luteolin in four mouse seizure models. <i>Neuroscience Letters</i> , 2013, 550, 195-199.	2.1	25
40	Formulation of Spray-Dried Phenytoin Loaded Poly(μ -Caprolactone) Microcarrier Intended for Brain Delivery to Treat Epilepsy. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1018-1030.	3.3	24
41	Randomized trial of add-on triheptanoin vs medium chain triglycerides in adults with refractory epilepsy. <i>Epilepsia Open</i> , 2019, 4, 153-163.	2.4	24
42	Triheptanoin protects against status epilepticus-induced hippocampal mitochondrial dysfunctions, oxidative stress and neuronal degeneration. <i>Journal of Neurochemistry</i> , 2018, 144, 431-442.	3.9	23
43	ACTH and PMX53 recover synaptic transcriptome alterations in a rat model of infantile spasms. <i>Scientific Reports</i> , 2018, 8, 5722.	3.3	22
44	Impaired Pentose Phosphate Pathway in the Spinal Cord of the hSOD1G93A Mouse Model of Amyotrophic Lateral Sclerosis. <i>Molecular Neurobiology</i> , 2019, 56, 5844-5855.	4.0	22
45	Characterization of osteopontin expression and function after status epilepticus. <i>Epilepsia</i> , 2008, 49, 1675-1685.	5.1	21
46	Alternative Fuels in Epilepsy and Amyotrophic Lateral Sclerosis. <i>Neurochemical Research</i> , 2017, 42, 1610-1620.	3.3	21
47	Triheptanoin alters [^{13}C]-glucose incorporation into glycolytic intermediates and increases TCA cycling by normalizing the activities of pyruvate dehydrogenase and oxoglutarate dehydrogenase in a chronic epilepsy mouse model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 678-691.	4.3	16
48	A companion to the preclinical common data elements for physiologic data in rodent epilepsy models. A report of the TASK 3 Physiology Working Group of the ILAE/AES Joint Translational Task Force. <i>Epilepsia Open</i> , 2018, 3, 69-89.	2.4	15
49	Diffusion Magnetic Resonance Imaging Unveils the Spatiotemporal Microstructural Gray Matter Changes following Injury in the Rodent Brain. <i>Journal of Neurotrauma</i> , 2019, 36, 1306-1317.	3.4	15
50	Combined Diffusion Tensor Imaging and Quantitative Susceptibility Mapping Discern Discrete Facets of White Matter Pathology Post-injury in the Rodent Brain. <i>Frontiers in Neurology</i> , 2020, 11, 153.	2.4	14
51	Impaired hippocampal glucose metabolism during and after flurothyl-induced seizures in mice: Reduced phosphorylation coincides with reduced activity of pyruvate dehydrogenase. <i>Epilepsia</i> , 2017, 58, 1172-1180.	5.1	13
52	The effect of dichloroacetate in mouse models of epilepsy. <i>Epilepsy Research</i> , 2018, 145, 77-81.	1.6	12
53	Mouse models: The ketogenic diet and polyunsaturated fatty acids. <i>Epilepsia</i> , 2008, 49, 64-66.	5.1	11
54	Using WebCt to Implement a Basic Science Competency Education Course. <i>American Journal of Pharmaceutical Education</i> , 2008, 72, 39.	2.1	11

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55	Modification of Astrocyte Metabolism as an Approach to the Treatment of Epilepsy: Triheptanoin and Acetyl-L-Carnitine. <i>Neurochemical Research</i> , 2016, 41, 86-95.	3.3	11
56	The effects of C5aR1 on leukocyte infiltration following pilocarpine-induced status epilepticus. <i>Epilepsia</i> , 2017, 58, e54-e58.	5.1	9
57	Open-label long-term treatment of add-on triheptanoin in adults with drug-resistant epilepsy. <i>Epilepsia Open</i> , 2020, 5, 230-239.	2.4	9
58	Activity of the rat GluR4 promoter in transfected cortical neurons and glia. <i>Journal of Neurochemistry</i> , 2003, 86, 1162-1173.	3.9	8
59	Fructose 1,6-bisphosphate is anticonvulsant and improves oxidative glucose metabolism within the hippocampus and liver in the chronic pilocarpine mouse epilepsy model. <i>Epilepsy and Behavior</i> , 2021, 122, 108223.	1.7	8
60	Metabolic Dysfunctions in Epilepsy and Novel Metabolic Treatment Approaches. , 2015, , 461-473.		7
61	Heptanoate is neuroprotective in vitro but triheptanoin post-treatment did not protect against middle cerebral artery occlusion in rats. <i>Neuroscience Letters</i> , 2018, 683, 207-214.	2.1	6
62	Brain glycogen content is increased in the acute and interictal chronic stages of the mouse pilocarpine model of epilepsy. <i>Epilepsia Open</i> , 2022, 7, 361-367.	2.4	6
63	Slc10A4 "what do we know about the function of this "secret ligand carrier" protein?. <i>Experimental Neurology</i> , 2013, 248, 258-261.	4.1	5
64	Prenatal betamethasone exposure increases corticotropin-releasing hormone expression along with increased hippocampal slice excitability in the developing hippocampus. <i>Epilepsy Research</i> , 2020, 160, 106276.	1.6	2
65	Alterations in mitochondrial glucose carbon metabolism in epilepsy and targeted metabolic treatments. , 2021, , 653-677.		2
66	High Caloric Diets in Amyotrophic Lateral Sclerosis. , 2015, , 355-361.		0
67	Sustained-release ketamine-loaded lipid-particulate system: in vivo assessment in mice. <i>Drug Delivery and Translational Research</i> , 2021, , 1.	5.8	0