

Merab Kokaia

List of Publications by Year in descending order

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72
papers

3,410
citations

147801

31
h-index

144013

57
g-index

72
all docs

72
docs citations

72
times ranked

4318
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in the development of biomarkers for epilepsy. <i>Lancet Neurology</i> , The, 2016, 15, 843-856.	10.2	283
2	Suppressed Epileptogenesis in BDNF Mutant Mice. <i>Experimental Neurology</i> , 1995, 133, 215-224.	4.1	244
3	Environment Matters: Synaptic Properties of Neurons Born in the Epileptic Adult Brain Develop to Reduce Excitability. <i>Neuron</i> , 2006, 52, 1047-1059.	8.1	234
4	Optogenetic control of epileptiform activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12162-12167.	7.1	225
5	Grafted neural stem cells develop into functional pyramidal neurons and integrate into host cortical circuitry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 17089-17094.	7.1	191
6	Wnt5a-treated midbrain neural stem cells improve dopamine cell replacement therapy in parkinsonian mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 149-160.	8.2	152
7	Inflammation Regulates Functional Integration of Neurons Born in Adult Brain. <i>Journal of Neuroscience</i> , 2008, 28, 12477-12488.	3.6	134
8	Brain Insults in Rats Induce Increased Expression of the BDNF Gene through Differential Use of Multiple Promoters. <i>European Journal of Neuroscience</i> , 1994, 6, 587-596.	2.6	108
9	Global Optogenetic Activation of Inhibitory Interneurons during Epileptiform Activity. <i>Journal of Neuroscience</i> , 2014, 34, 3364-3377.	3.6	103
10	Functional Integration of Grafted Neural Stem Cell-Derived Dopaminergic Neurons Monitored by Optogenetics in an In Vitro Parkinson Model. <i>PLoS ONE</i> , 2011, 6, e17560.	2.5	94
11	Seizure Suppression by GDNF Gene Therapy in Animal Models of Epilepsy. <i>Molecular Therapy</i> , 2007, 15, 1106-1113.	8.2	87
12	Adeno-associated viral vector-induced overexpression of neuropeptide Y Y2 receptors in the hippocampus suppresses seizures. <i>Brain</i> , 2010, 133, 2778-2788.	7.6	82
13	Delayed kindling development after rapidly recurring seizures: relation to mossy fiber sprouting and neurotrophin, GAP-43 and dynorphin gene expression. <i>Brain Research</i> , 1996, 712, 19-34.	2.2	76
14	Seizure-induced neurogenesis in the adult brain. <i>European Journal of Neuroscience</i> , 2011, 33, 1133-1138.	2.6	66
15	Hippocampal NPY gene transfer attenuates seizures without affecting epilepsy-induced impairment of LTP. <i>Experimental Neurology</i> , 2009, 215, 328-333.	4.1	61
16	Endogenous Neurotrophin-3 Regulates Short-Term Plasticity at Lateral Perforant Pathway Granule Cell Synapses. <i>Journal of Neuroscience</i> , 1998, 18, 8730-8739.	3.6	59
17	Optogenetic control of human neurons in organotypic brain cultures. <i>Scientific Reports</i> , 2016, 6, 24818.	3.3	56
18	NPY gene transfer in the hippocampus attenuates synaptic plasticity and learning. <i>Hippocampus</i> , 2008, 18, 564-574.	1.9	55

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19	Functional integration of new hippocampal neurons following insults to the adult brain is determined by characteristics of pathological environment. <i>Experimental Neurology</i> , 2011, 229, 484-493.	4.1	54
20	Differential suppression of seizures via Y2 and Y5 neuropeptide Y receptors. <i>Neurobiology of Disease</i> , 2005, 20, 760-772.	4.4	51
21	Optogenetics Reveal Delayed Afferent Synaptogenesis on Grafted Human-Induced Pluripotent Stem Cell-Derived Neural Progenitors. <i>Stem Cells</i> , 2014, 32, 3088-3098.	3.2	49
22	An optogenetic approach in epilepsy. <i>Neuropharmacology</i> , 2013, 69, 89-95.	4.1	47
23	Afferent-specific modulation of short-term synaptic plasticity by neurotrophins in dentate gyrus. <i>European Journal of Neuroscience</i> , 2000, 12, 662-669.	2.6	44
24	Epilepsy therapy development: Technical and methodologic issues in studies with animal models. <i>Epilepsia</i> , 2013, 54, 13-23.	5.1	44
25	Optogenetic inhibition of chemically induced hypersynchronized bursting in mice. <i>Neurobiology of Disease</i> , 2014, 65, 133-141.	4.4	44
26	Differential Effect of Neuropeptides on Excitatory Synaptic Transmission in Human Epileptic Hippocampus. <i>Journal of Neuroscience</i> , 2015, 35, 9622-9631.	3.6	44
27	Combined gene overexpression of neuropeptide Y and its receptor Y5 in the hippocampus suppresses seizures. <i>Neurobiology of Disease</i> , 2012, 45, 288-296.	4.4	42
28	Decreased expression of brain-derived neurotrophic factor in BDNF+/- mice is associated with enhanced recovery of motor performance and increased neuroblast number following experimental stroke. <i>Journal of Neuroscience Research</i> , 2006, 84, 626-631.	2.9	38
29	GDNF released from encapsulated cells suppresses seizure activity in the epileptic hippocampus. <i>Experimental Neurology</i> , 2009, 216, 413-419.	4.1	37
30	Functional properties and synaptic integration of genetically labelled dopaminergic neurons in intrastriatal grafts. <i>European Journal of Neuroscience</i> , 2005, 21, 2793-2799.	2.6	35
31	Common data elements and data management: Remedy to cure underpowered preclinical studies. <i>Epilepsy Research</i> , 2017, 129, 87-90.	1.6	35
32	Translational approach for gene therapy in epilepsy: Model system and unilateral overexpression of neuropeptide Y and Y2 receptors. <i>Neurobiology of Disease</i> , 2016, 86, 52-61.	4.4	32
33	Inhibition of epileptiform activity by neuropeptide Y in brain tissue from drug-resistant temporal lobe epilepsy patients. <i>Scientific Reports</i> , 2019, 9, 19393.	3.3	31
34	Long-Term, Targeted Delivery of GDNF from Encapsulated Cells Is Neuroprotective and Reduces Seizures in the Pilocarpine Model of Epilepsy. <i>Journal of Neuroscience</i> , 2019, 39, 2144-2156.	3.6	29
35	Dynamic interaction of local and transhemispheric networks is necessary for progressive intensification of hippocampal seizures. <i>Scientific Reports</i> , 2018, 8, 5669.	3.3	28
36	Long-term potentiation of single subicular neurons in mice. <i>Hippocampus</i> , 2000, 10, 684-692.	1.9	27

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37	Epilepsy and optogenetics: can seizures be controlled by light?. <i>Clinical Science</i> , 2017, 131, 1605-1616.	4.3	27
38	Activity-dependent volume transmission by transgene NPY attenuates glutamate release and LTP in the subiculum. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 229-237.	2.2	24
39	Altered Chloride Homeostasis Decreases the Action Potential Threshold and Increases Hyperexcitability in Hippocampal Neurons. <i>ENeuro</i> , 2017, 4, ENEURO.0172-17.2017.	1.9	24
40	Leaky Optoelectrical Fiber for Optogenetic Stimulation and Electrochemical Detection of Dopamine Exocytosis from Human Dopaminergic Neurons. <i>Advanced Science</i> , 2019, 6, 1902011.	11.2	23
41	Galanin expressed in the excitatory fibers attenuates synaptic strength and generalized seizures in the piriform cortex of mice. <i>Experimental Neurology</i> , 2006, 200, 398-406.	4.1	20
42	VEGF Receptor-2 (Flk-1) Overexpression in Mice Counteracts Focal Epileptic Seizures. <i>PLoS ONE</i> , 2012, 7, e40535.	2.5	20
43	How Might Novel Technologies Such as Optogenetics Lead to Better Treatments in Epilepsy?. <i>Advances in Experimental Medicine and Biology</i> , 2014, 813, 319-336.	1.6	19
44	Tuning afferent synapses of hippocampal interneurons by neuropeptide Y. <i>Hippocampus</i> , 2011, 21, 198-211.	1.9	18
45	Advancing research toward faster diagnosis, better treatment, and end of stigma in epilepsy. <i>Epilepsia</i> , 2019, 60, 1281-1292.	5.1	17
46	Encapsulated galanin-producing cells attenuate focal epileptic seizures in the hippocampus. <i>Epilepsia</i> , 2014, 55, 167-174.	5.1	16
47	Functional properties of the human ventral mesencephalic neural stem cell line hVM1. <i>Experimental Neurology</i> , 2010, 223, 653-656.	4.1	15
48	Altered profile of basket cell afferent synapses in hyperexcitable dentate gyrus revealed by optogenetic and two-pathway stimulations. <i>European Journal of Neuroscience</i> , 2012, 36, 1971-1983.	2.6	15
49	Disease Modification by Combinatorial Single Vector Gene Therapy: A Preclinical Translational Study in Epilepsy. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019, 15, 179-193.	4.1	14
50	Human midbrain precursors activate the expected developmental genetic program and differentiate long-term to functional A9 dopamine neurons in vitro. Enhancement by Bcl-XL. <i>Experimental Cell Research</i> , 2012, 318, 2446-2459.	2.6	13
51	Unilateral ex vivo gene therapy by GDNF in epileptic rats. <i>Gene Therapy</i> , 2019, 26, 65-74.	4.5	12
52	Chronic BDNF deficiency permanently modifies excitatory synapses in the piriform cortex. <i>Journal of Neuroscience Research</i> , 2005, 81, 696-705.	2.9	10
53	Gene Therapy Vector Encoding Neuropeptide Y and Its Receptor Y2 for Future Treatment of Epilepsy: Preclinical Data in Rats. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 232.	2.9	10
54	Long-Term Effects of Myoinositol on Behavioural Seizures and Biochemical Changes Evoked by Kainic Acid Induced Epileptogenesis. <i>BioMed Research International</i> , 2019, 2019, 1-14.	1.9	9

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55	Human Stem Cell-Derived GABAergic Interneurons Establish Efferent Synapses onto Host Neurons in Rat Epileptic Hippocampus and Inhibit Spontaneous Recurrent Seizures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13243.	4.1	9
56	Neuropeptide Y Y5 receptors suppress in vitro spontaneous epileptiform bursting in the rat hippocampus. <i>NeuroReport</i> , 2004, 15, 339-343.	1.2	8
57	Activity-dependent long-term plasticity of afferent synapses on grafted stem/progenitor cell-derived neurons. <i>Experimental Neurology</i> , 2011, 229, 274-281.	4.1	8
58	Preserved Function of Afferent Parvalbumin-Positive Perisomatic Inhibitory Synapses of Dentate Granule Cells in Rapidly Kindled Mice. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 433.	3.7	8
59	Human stem cell-derived GABAergic neurons functionally integrate into human neuronal networks. <i>Scientific Reports</i> , 2021, 11, 22050.	3.3	8
60	Myo-Inositol Limits Kainic Acid-Induced Epileptogenesis in Rats. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1198.	4.1	7
61	Electrophysiological investigations of synaptic connectivity between host and graft neurons. <i>Progress in Brain Research</i> , 2012, 200, 97-112.	1.4	6
62	Lipid mediator ω -3 docosapentaenoic acid-derived protectin D1 enhances synaptic inhibition of hippocampal principal neurons by interaction with a G-protein-coupled receptor. <i>FASEB Journal</i> , 2022, 36, e22203.	0.5	6
63	Light-activated channels in acute seizures. <i>Epilepsia</i> , 2011, 52, 16-18.	5.1	5
64	Concentration- and time-dependent effects of myo-inositol on evoked epileptic afterdischarge in the hippocampus in vivo. <i>NeuroReport</i> , 2019, 30, 1129-1134.	1.2	5
65	Directly Converted Human Fibroblasts Mature to Neurons and Show Long-Term Survival in Adult Rodent Hippocampus. <i>Stem Cells International</i> , 2017, 2017, 1-9.	2.5	4
66	Neuropeptide gene therapy for epilepsy: viral vectors, stem cells and neurogenesis. <i>Future Neurology</i> , 2006, 1, 843-851.	0.5	2
67	Short-Term Grafting of Human Neural Stem Cells: Electrophysiological Properties and Motor Behavioral Amelioration in Experimental Parkinson's Disease. <i>Cell Transplantation</i> , 2016, 25, 2083-2097.	2.5	2
68	Editorial: Gene Therapy in the CNS $\hat{=}$ Progress and Prospects for Novel Therapies. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 778134.	2.9	2
69	Novel perspectives in treatment of epilepsy. <i>Epilepsy Research</i> , 2009, 85, 129-130.	1.6	1
70	Gene therapy of focal-onset epilepsy by adeno-associated virus vector-mediated overexpression of neuropeptide Y. <i>Epilepsia</i> , 2010, 51, 96-96.	5.1	1
71	Meeting report: EpiXchange II brings together European epilepsy research projects to discuss latest advances. <i>Epilepsy Research</i> , 2021, 178, 106811.	1.6	1
72	Toward an Optogenetic Therapy for Epilepsy. , 0, , 292-307.		0