

Armen Saghatelyan

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,868
citations

201674

27
h-index

197818

49
g-index

54
all docs

54
docs citations

54
times ranked

3955
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal fate determinants of adult olfactory bulb neurogenesis. <i>Nature Neuroscience</i> , 2005, 8, 865-872.	14.8	549
2	Reactive Glia in the Injured Brain Acquire Stem Cell Properties in Response to Sonic Hedgehog. <i>Cell Stem Cell</i> , 2013, 12, 426-439.	11.1	332
3	Vasculature Guides Migrating Neuronal Precursors in the Adult Mammalian Forebrain via Brain-Derived Neurotrophic Factor Signaling. <i>Journal of Neuroscience</i> , 2009, 29, 4172-4188.	3.6	310
4	Integrating new neurons into the adult olfactory bulb: joining the network, lifeâ€“death decisions, and the effects of sensory experience. <i>Trends in Neurosciences</i> , 2005, 28, 248-254.	8.6	229
5	Interneurons Produced in Adulthood Are Required for the Normal Functioning of the Olfactory Bulb Network and for the Execution of Selected Olfactory Behaviors. <i>Journal of Neuroscience</i> , 2009, 29, 15245-15257.	3.6	222
6	Tenascin-R mediates activity-dependent recruitment of neuroblasts in the adult mouse forebrain. <i>Nature Neuroscience</i> , 2004, 7, 347-356.	14.8	201
7	A Dlx2- and Pax6-Dependent Transcriptional Code for Periglomerular Neuron Specification in the Adult Olfactory Bulb. <i>Journal of Neuroscience</i> , 2008, 28, 6439-6452.	3.6	185
8	Neonatal and Adult Neurogenesis Provide Two Distinct Populations of Newborn Neurons to the Mouse Olfactory Bulb. <i>Journal of Neuroscience</i> , 2005, 25, 6816-6825.	3.6	178
9	Reduced Perisomatic Inhibition, Increased Excitatory Transmission, and Impaired Long-Term Potentiation in Mice Deficient for the Extracellular Matrix Glycoprotein Tenascin-R. <i>Molecular and Cellular Neurosciences</i> , 2001, 17, 226-240.	2.2	173
10	Activity-Dependent Adjustments of the Inhibitory Network in the Olfactory Bulb following Early Postnatal Deprivation. <i>Neuron</i> , 2005, 46, 103-116.	8.1	152
11	Brain-Derived Neurotrophic Factor Promotes Vasculature-Associated Migration of Neuronal Precursors toward the Ischemic Striatum. <i>PLoS ONE</i> , 2013, 8, e55039.	2.5	123
12	Astrocytes Control the Development of the Migration-Promoting Vasculature Scaffold in the Postnatal Brain via VEGF Signaling. <i>Journal of Neuroscience</i> , 2012, 32, 1687-1704.	3.6	116
13	The extracellular matrix molecule tenascin-R and its HNK-1 carbohydrate modulate perisomatic inhibition and long-term potentiation in the CA1 region of the hippocampus. <i>European Journal of Neuroscience</i> , 2000, 12, 3331-3342.	2.6	107
14	Nicotinic receptors regulate the survival of newborn neurons in the adult olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9822-9826.	7.1	99
15	The Role of Astrocytes in the Generation, Migration, and Integration of New Neurons in the Adult Olfactory Bulb. <i>Frontiers in Neuroscience</i> , 2016, 10, 149.	2.8	67
16	Reduced GABAergic transmission and number of hippocampal perisomatic inhibitory synapses in juvenile mice deficient in the neural cell adhesion molecule L1. <i>Molecular and Cellular Neurosciences</i> , 2004, 26, 191-203.	2.2	61
17	Inhibitory Interneurons in the Olfactory Bulb: From Development to Function. <i>Neuroscientist</i> , 2004, 10, 292-303.	3.5	60
18	Adult neural stem cell activation in mice is regulated by the day/night cycle and intracellular calcium dynamics. <i>Cell</i> , 2021, 184, 709-722.e13.	28.9	54

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19	Recognition molecule associated carbohydrate inhibits postsynaptic GABAB receptors: a mechanism for homeostatic regulation of GABA release in perisomatic synapses. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 271-282.	2.2	50
20	Role of sensory activity on chemospecific populations of interneurons in the adult olfactory bulb. <i>Journal of Comparative Neurology</i> , 2010, 518, 1847-1861.	1.6	47
21	Newborn neurons in the adult olfactory bulb: Unique properties for specific odor behavior. <i>Behavioural Brain Research</i> , 2012, 227, 480-489.	2.2	46
22	SARS-CoV-2 deregulates the vascular and immune functions of brain pericytes via Spike protein. <i>Neurobiology of Disease</i> , 2021, 161, 105561.	4.4	45
23	Principal cell activity induces spine relocation of adult-born interneurons in the olfactory bulb. <i>Nature Communications</i> , 2016, 7, 12659.	12.8	42
24	Role of blood vessels in the neuronal migration. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 744-750.	5.0	35
25	Delayed onset of odor detection in neonatal mice lacking tenascin-C. <i>Molecular and Cellular Neurosciences</i> , 2006, 32, 174-186.	2.2	34
26	Sensitive period for rescuing parvalbumin interneurons connectivity and social behavior deficits caused by TSC1 loss. <i>Nature Communications</i> , 2021, 12, 3653.	12.8	30
27	Local neurons play key roles in the mammalian olfactory bulb. <i>Journal of Physiology (Paris)</i> , 2003, 97, 517-528.	2.1	28
28	De-routing neuronal precursors in the adult brain to sites of injury: Role of the vasculature. <i>Neuropharmacology</i> , 2010, 58, 877-883.	4.1	28
29	The dynamic interplay between ATP/ADP levels and autophagy sustain neuronal migration in vivo. <i>ELife</i> , 2020, 9, .	6.0	26
30	The Extracellular Matrix Glycoprotein Tenascin-R Affects Adult But Not Developmental Neurogenesis in the Olfactory Bulb. <i>Journal of Neuroscience</i> , 2013, 33, 10324-10339.	3.6	25
31	Activity of the Principal Cells of the Olfactory Bulb Promotes a Structural Dynamic on the Distal Dendrites of Immature Adult-Born Granule Cells via Activation of NMDA Receptors. <i>Journal of Neuroscience</i> , 2014, 34, 1748-1759.	3.6	25
32	Intrinsic Mechanisms Regulating Neuronal Migration in the Postnatal Brain. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 620379.	3.7	23
33	The Role of Adult-Born Neurons in the Constantly Changing Olfactory Bulb Network. <i>Neural Plasticity</i> , 2016, 2016, 1-8.	2.2	20
34	Motion-free endoscopic system for brain imaging at variable focal depth using liquid crystal lenses. <i>Journal of Biophotonics</i> , 2017, 10, 762-774.	2.3	19
35	Different forms of structural plasticity in the adult olfactory bulb. <i>Neurogenesis (Austin, Tex)</i> , 2017, 4, e1301850.	1.5	18
36	CaMKII α Expression Defines Two Functionally Distinct Populations of Granule Cells Involved in Different Types of Odor Behavior. <i>Current Biology</i> , 2017, 27, 3315-3329.e6.	3.9	15

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37	LRIG1-Mediated Inhibition of EGF Receptor Signaling Regulates Neural Precursor Cell Proliferation in the Neocortex. <i>Cell Reports</i> , 2020, 33, 108257.	6.4	13
38	The role of calretinin-expressing granule cells in olfactory bulb functions and odor behavior. <i>Scientific Reports</i> , 2018, 8, 9385.	3.3	12
39	A light-inducible protein clustering system for in vivo analysis of α -synuclein aggregation in Parkinson disease. <i>PLoS Biology</i> , 2022, 20, e3001578.	5.6	12
40	Deciphering Brain Function by Miniaturized Fluorescence Microscopy in Freely Behaving Animals. <i>Frontiers in Neuroscience</i> , 2020, 14, 819.	2.8	10
41	AMPK-induced autophagy as a key regulator of cell migration. <i>Autophagy</i> , 2021, 17, 828-829.	9.1	9
42	Time-lapse Imaging of Neuroblast Migration in Acute Slices of the Adult Mouse Forebrain. <i>Journal of Visualized Experiments</i> , 2012, , e4061.	0.3	8
43	Tracking Neuronal Migration in Adult Brain Slices. <i>Current Protocols in Neuroscience</i> , 2015, 71, 3.28.1-3.28.13.	2.6	8
44	Reactive Glia in the Injured Brain Acquire Stem Cell Properties in Response to Sonic Hedgehog. <i>Cell Stem Cell</i> , 2013, 12, 629.	11.1	4
45	Developmental Potential and Plasticity of Olfactory Epithelium Stem Cells Revealed by Heterotopic Grafting in the Adult Brain. <i>Stem Cell Reports</i> , 2020, 14, 692-702.	4.8	4
46	Deciphering heterogeneous populations of migrating cells based on the computational assessment of their dynamic properties. <i>Stem Cell Reports</i> , 2022, 17, 911-923.	4.8	3
47	Live imaging of adult neural stem cells in freely behaving mice using mini-endoscopes. <i>STAR Protocols</i> , 2021, 2, 100596.	1.2	2
48	In vivo live imaging of postnatal neural stem cells. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	2
49	Regeneration in the Olfactory Bulb. , 2020, , 610-623.		1
50	Calcium signaling as an integrator and decoder of niche factors to control somatic stem cell quiescence and activation. <i>FEBS Journal</i> , 2021, , .	4.7	1
51	Revealing pathologies in the liquid crystalline structures of the brain by polarimetric studies (Presentation Recording). <i>Proceedings of SPIE</i> , 2015, , .	0.8	0