

Amanda Sierra

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58

papers

6,126

citations

33

h-index

67

g-index

67

ext. papers

7,178

ext. citations

6.4

avg, IF

5.81

L-index

#	Paper	IF	Citations
58	Microglia shape adult hippocampal neurogenesis through apoptosis-coupled phagocytosis. <i>Cell Stem Cell</i> , 2010 , 7, 483-95	18	969
57	The role of microglia in the healthy brain. <i>Journal of Neuroscience</i> , 2011 , 31, 16064-9	6.6	679
56	Microglia derived from aging mice exhibit an altered inflammatory profile. <i>Glia</i> , 2007 , 55, 412-24	9	461
55	Janus-faced microglia: beneficial and detrimental consequences of microglial phagocytosis. <i>Frontiers in Cellular Neuroscience</i> , 2013 , 7, 6	6.1	349
54	Coupled Proliferation and Apoptosis Maintain the Rapid Turnover of Microglia in the Adult Brain. <i>Cell Reports</i> , 2017 , 18, 391-405	10.6	339
53	Steroid hormone receptor expression and function in microglia. <i>Glia</i> , 2008 , 56, 659-74	9	292
52	Brain aromatase is neuroprotective. <i>Journal of Neurobiology</i> , 2001 , 47, 318-29		231
51	Localization of estrogen receptor immunoreactivity in astrocytes of the adult rat brain. <i>Glia</i> , 1999 , 26, 260-267	9	189
50	Neuronal hyperactivity accelerates depletion of neural stem cells and impairs hippocampal neurogenesis. <i>Cell Stem Cell</i> , 2015 , 16, 488-503	18	170
49	Autophagy and Microglia: Novel Partners in Neurodegeneration and Aging. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	167
48	Surveillance, phagocytosis, and inflammation: how never-resting microglia influence adult hippocampal neurogenesis. <i>Neural Plasticity</i> , 2014 , 2014, 610343	3.3	165
47	Neuroprotective effects of estradiol in the adult rat hippocampus: interaction with insulin-like growth factor-I signalling. <i>Journal of Neuroscience Research</i> , 1999 , 58, 815-22	4.4	160
46	Aromatase: a neuroprotective enzyme. <i>Progress in Neurobiology</i> , 2003 , 71, 31-41	10.9	149
45	Aromatase expression by reactive astroglia is neuroprotective. <i>Annals of the New York Academy of Sciences</i> , 2003 , 1007, 298-305	6.5	120
44	The "Big-Bang" for modern glial biology: Translation and comments on Pñ del Rñ-Hortega 1919 series of papers on microglia. <i>Glia</i> , 2016 , 64, 1801-40	9	119
43	An antagonist of estrogen receptors blocks the induction of adult neurogenesis by insulin-like growth factor-I in the dentate gyrus of adult female rat. <i>European Journal of Neuroscience</i> , 2003 , 18, 923-30	3.5	109
42	Estradiol prevents kainic acid-induced neuronal loss in the rat dentate gyrus. <i>NeuroReport</i> , 1998 , 9, 3075-97		106

41	Microglia Actively Remodel Adult Hippocampal Neurogenesis through the Phagocytosis Secretome. <i>Journal of Neuroscience</i> , 2020 , 40, 1453-1482	6.6	106
40	Neuronal Hyperactivity Disturbs ATP Microgradients, Impairs Microglial Motility, and Reduces Phagocytic Receptor Expression Triggering Apoptosis/Microglial Phagocytosis Uncoupling. <i>PLoS Biology</i> , 2016 , 14, e1002466	9.7	89
39	Steroidogenic acute regulatory protein in the rat brain: cellular distribution, developmental regulation and overexpression after injury. <i>European Journal of Neuroscience</i> , 2003 , 18, 1458-67	3.5	80
38	Neurosteroids: the StAR protein in the brain. <i>Journal of Neuroendocrinology</i> , 2004 , 16, 787-93	3.8	78
37	Gonadal hormones affect neuronal vulnerability to excitotoxin-induced degeneration. <i>Journal of Neurocytology</i> , 1999 , 28, 699-710		68
36	Brain microglia express steroid-converting enzymes in the mouse. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008 , 109, 96-107	5.1	66
35	Cien Años de Microglía: Milestones in a Century of Microglial Research. <i>Trends in Neurosciences</i> , 2019 , 42, 778-792	13.3	61
34	Neural stem cell deforestation as the main force driving the age-related decline in adult hippocampal neurogenesis. <i>Behavioural Brain Research</i> , 2012 , 227, 433-9	3.4	61
33	Adult human neurogenesis: from microscopy to magnetic resonance imaging. <i>Frontiers in Neuroscience</i> , 2011 , 5, 47	5.1	61
32	Steroidogenic acute regulatory protein in the brain. <i>Neuroscience</i> , 2006 , 138, 741-7	3.9	61
31	Localization of estrogen receptor beta-immunoreactivity in astrocytes of the adult rat brain. <i>Glia</i> , 1999 , 26, 260-7	9	60
30	From the Cajal alumni Achúcarro and Rib-Hortega to the rediscovery of never-resting microglia. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 45	3.6	53
29	Never-resting microglia: physiological roles in the healthy brain and pathological implications. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 240	6.1	52
28	Endogenous estrogen formation is neuroprotective in model of cerebellar ataxia. <i>Endocrine</i> , 2003 , 21, 43-51		47
27	Lifestyle Shapes the Dialogue between Environment, Microglia, and Adult Neurogenesis. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 442-53	5.7	38
26	Essential omega-3 fatty acids tune microglial phagocytosis of synaptic elements in the mouse developing brain. <i>Nature Communications</i> , 2020 , 11, 6133	17.4	38
25	Clearing the corpses: regulatory mechanisms, novel tools, and therapeutic potential of harnessing microglial phagocytosis in the diseased brain. <i>Neural Regeneration Research</i> , 2016 , 11, 1533-1539	4.5	31
24	Development and maintenance of the brain's immune toolkit: Microglia and non-parenchymal brain macrophages. <i>Developmental Neurobiology</i> , 2018 , 78, 561-579	3.2	29

23	Microglial Corpse Clearance: Lessons From Macrophages. <i>Frontiers in Immunology</i> , 2020 , 11, 506	8.4	29
22	Rewiring of Memory Circuits: Connecting Adult Newborn Neurons With the Help of Microglia. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 24	5.7	28
21	A developmental perspective on adult hippocampal neurogenesis. <i>International Journal of Developmental Neuroscience</i> , 2013 , 31, 640-5	2.7	26
20	Microglia express functional 11 beta-hydroxysteroid dehydrogenase type 1. <i>Glia</i> , 2010 , 58, 1257-66	9	19
19	Metabolomics of neural progenitor cells: a novel approach to biomarker discovery. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2008 , 73, 389-401	3.9	17
18	ProMoJ: A new tool for automatic three-dimensional analysis of microglial process motility. <i>Glia</i> , 2018 , 66, 828-845	9	14
17	A simulation model of neuroprogenitor proliferation dynamics predicts age-related loss of hippocampal neurogenesis but not astrogenesis. <i>Scientific Reports</i> , 2017 , 7, 16528	4.9	14
16	A Standardized Protocol for Stereotaxic Intrahippocampal Administration of Kainic Acid Combined with Electroencephalographic Seizure Monitoring in Mice. <i>Frontiers in Neuroscience</i> , 2017 , 11, 160	5.1	14
15	Brain steroidogenesis: emerging therapeutic strategies to prevent neurodegeneration. <i>Journal of Neural Transmission</i> , 2005 , 112, 171-6	4.3	14
14	Multitype Bellman-Harris branching model provides biological predictors of early stages of adult hippocampal neurogenesis. <i>BMC Systems Biology</i> , 2017 , 11, 90	3.5	12
13	Quantifying Microglial Phagocytosis of Apoptotic Cells in the Brain in Health and Disease. <i>Current Protocols in Immunology</i> , 2018 , 122, e49	4	10
12	Reactive Disruption of the Hippocampal Neurogenic Niche After Induction of Seizures by Injection of Kainic Acid in the Amygdala. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 158	5.7	8
11	Phytic acid level in edible grain derivatives in the Canary Islands (gofio and frangollo). <i>European Food Research and Technology</i> , 2000 , 210, 346-348	3.4	5
10	Fast SARS-CoV-2 detection protocol based on RNA precipitation and RT-qPCR in nasopharyngeal swab samples		4
9	Longitudinal variations of brain functional connectivity: A case report study based on a mouse model of epilepsy. <i>F1000Research</i> , 2015 , 4, 144	3.6	3
8	C1q is related to microglial phagocytosis in the hippocampus in physiological conditions. <i>Matters</i> ,	0	3
7	Longitudinal variations of brain functional connectivity: A case report study based on a mouse model of epilepsy. <i>F1000Research</i> , 2015 , 4, 144	3.6	3
6	Microglial phagocytosis dysfunction in the dentate gyrus is related to local neuronal activity in a genetic model of epilepsy. <i>Epilepsia</i> , 2020 , 61, 2593-2608	6.4	3

5	Assessing Autophagy in Microglia: A Two-Step Model to Determine Autophagosome Formation, Degradation, and Net Turnover. <i>Frontiers in Immunology</i> , 2020 , 11, 620602	8.4	3
4	Microglia actively remodels adult hippocampal neurogenesis through the phagocytosis secretome		2
3	Essential omega-3 fatty acids tune microglial phagocytosis of synaptic elements in the developing brain		2
2	Role of Mitochondrial Dynamics in Microglial Activation and Metabolic Switch. <i>ImmunoHorizons</i> , 2021 , 5, 615-626	2.7	1
1	Adult Neurogenesis, Learning and Memory 2014 , 249-271		