

# MarÃ- a Llorens-MartÃ-n

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

4,859  
citations

117453

34  
h-index

128067

60  
g-index

63  
all docs

63  
docs citations

63  
times ranked

6728  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adult hippocampal neurogenesis is abundant in neurologically healthy subjects and drops sharply in patients with Alzheimer's disease. <i>Nature Medicine</i> , 2019, 25, 554-560.	15.2	1,070
2	GSK-3 $\beta$ , a pivotal kinase in Alzheimer disease. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 46.	1.4	383
3	The effects of exercise on spatial learning and anxiety-like behavior are mediated by an IGF-I-dependent mechanism related to hippocampal neurogenesis. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 402-411.	1.0	253
4	Central actions of liver-derived insulin-like growth factor I underlying its pro-cognitive effects. <i>Molecular Psychiatry</i> , 2007, 12, 1118-1128.	4.1	178
5	Direct Evidence of Internalization of Tau by Microglia In Vitro and In Vivo. <i>Journal of Alzheimer's Disease</i> , 2016, 50, 77-87.	1.2	165
6	Absence of CX3CR1 impairs the internalization of Tau by microglia. <i>Molecular Neurodegeneration</i> , 2017, 12, 59.	4.4	144
7	Evidences for Adult Hippocampal Neurogenesis in Humans. <i>Journal of Neuroscience</i> , 2021, 41, 2541-2553.	1.7	136
8	Impact of neurodegenerative diseases on human adult hippocampal neurogenesis. <i>Science</i> , 2021, 374, 1106-1113.	6.0	136
9	Inhibition of adult hippocampal neurogenesis disrupts contextual learning but spares spatial working memory, long-term conditional rule retention and spatial reversal. <i>Neuroscience</i> , 2009, 159, 59-68.	1.1	121
10	Role of Neuroinflammation in Adult Neurogenesis and Alzheimer Disease: Therapeutic Approaches. <i>Mediators of Inflammation</i> , 2013, 2013, 1-9.	1.4	121
11	Reviews: Mechanisms Mediating Brain Plasticity: IGF1 and Adult Hippocampal Neurogenesis. <i>Neuroscientist</i> , 2009, 15, 134-148.	2.6	119
12	GSK-3 $\beta$ overexpression causes reversible alterations on postsynaptic densities and dendritic morphology of hippocampal granule neurons in vivo. <i>Molecular Psychiatry</i> , 2013, 18, 451-460.	4.1	117
13	Exercise modulates insulin-like growth factor 1-dependent and -independent effects on adult hippocampal neurogenesis and behaviour. <i>Molecular and Cellular Neurosciences</i> , 2010, 44, 109-117.	1.0	109
14	The Role of Microglia in the Spread of Tau: Relevance for Tauopathies. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 172.	1.8	92
15	Pronounced individual variation in the response to the stimulatory action of exercise on immature hippocampal neurons. <i>Hippocampus</i> , 2006, 16, 480-490.	0.9	87
16	Memantine Normalizes Several Phenotypic Features in the Ts65Dn Mouse Model of Down Syndrome. <i>Journal of Alzheimer's Disease</i> , 2010, 21, 277-290.	1.2	85
17	Absence of microglial CX3CR1 impairs the synaptic integration of adult-born hippocampal granule neurons. <i>Brain, Behavior, and Immunity</i> , 2018, 68, 76-89.	2.0	82
18	Hyperexcitability and epileptic seizures in a model of frontotemporal dementia. <i>Neurobiology of Disease</i> , 2013, 58, 200-208.	2.1	79

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19	Novel function of Tau in regulating the effects of external stimuli on adult hippocampal neurogenesis. <i>EMBO Journal</i> , 2016, 35, 1417-1436.	3.5	74
20	Selective alterations of neurons and circuits related to early memory loss in Alzheimer's disease. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 38.	0.9	72
21	Unraveling human adult hippocampal neurogenesis. <i>Nature Protocols</i> , 2020, 15, 668-693.	5.5	70
22	Blockade of insulin-like growth factor has complex effects on structural plasticity in the hippocampus. <i>Hippocampus</i> , 2010, 20, 706-712.	0.9	66
23	Cessation of voluntary wheel running increases anxiety-like behavior and impairs adult hippocampal neurogenesis in mice. <i>Behavioural Brain Research</i> , 2013, 245, 34-41.	1.2	65
24	Both increases in immature dentate neuron number and decreases of immobility time in the forced swim test occurred in parallel after environmental enrichment of mice. <i>Neuroscience</i> , 2007, 147, 631-638.	1.1	63
25	Tau Protein and Adult Hippocampal Neurogenesis. <i>Frontiers in Neuroscience</i> , 2012, 6, 104.	1.4	62
26	Growth Factors as Mediators of Exercise Actions on the Brain. <i>NeuroMolecular Medicine</i> , 2008, 10, 99-107.	1.8	60
27	Novel connection between newborn granule neurons and the hippocampal CA2 field. <i>Experimental Neurology</i> , 2015, 263, 285-292.	2.0	59
28	Effects of voluntary physical exercise on adult hippocampal neurogenesis and behavior of Ts65Dn mice, a model of Down syndrome. <i>Neuroscience</i> , 2010, 171, 1228-1240.	1.1	54
29	Peripherally triggered and GSK-3 $\beta$ -driven brain inflammation differentially skew adult hippocampal neurogenesis, behavioral pattern separation and microglial activation in response to ibuprofen. <i>Translational Psychiatry</i> , 2014, 4, e463-e463.	2.4	52
30	Dual effects of increased glycogen synthase kinase-3 $\beta$ activity on adult neurogenesis. <i>Human Molecular Genetics</i> , 2013, 22, 1300-1315.	1.4	49
31	GSK3 $\beta$ Is Involved in the Relief of Mitochondria Pausing in a Tau-Dependent Manner. <i>PLoS ONE</i> , 2011, 6, e27686.	1.1	44
32	Soluble Tau has devastating effects on the structural plasticity of hippocampal granule neurons. <i>Translational Psychiatry</i> , 2017, 7, 1267.	2.4	43
33	Cognitive Decline in Neuronal Aging and Alzheimer's Disease: Role of NMDA Receptors and Associated Proteins. <i>Frontiers in Neuroscience</i> , 2017, 11, 626.	1.4	43
34	Differential Regulation of the Variations Induced by Environmental Richness in Adult Neurogenesis as a Function of Time: A Dual Birthdating Analysis. <i>PLoS ONE</i> , 2010, 5, e12188.	1.1	38
35	The Ever-Changing Morphology of Hippocampal Granule Neurons in Physiology and Pathology. <i>Frontiers in Neuroscience</i> , 2015, 9, 526.	1.4	37
36	Tau Isoform with Three Microtubule Binding Domains is a Marker of New Axons Generated from the Subgranular Zone in the Hippocampal Dentate Gyrus: Implications for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 921-930.	1.2	35

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37	Different Susceptibility to Neurodegeneration of Dorsal and Ventral Hippocampal Dentate Gyrus: A Study with Transgenic Mice Overexpressing GSK3 $\beta$ . PLoS ONE, 2011, 6, e27262.	1.1	33
38	Forced swimming sabotages the morphological and synaptic maturation of newborn granule neurons and triggers a unique pro-inflammatory milieu in the hippocampus. Brain, Behavior, and Immunity, 2016, 53, 242-254.	2.0	33
39	Mifepristone Prevents Stress-Induced Apoptosis in Newborn Neurons and Increases AMPA Receptor Expression in the Dentate Gyrus of C57/BL6 Mice. PLoS ONE, 2011, 6, e28376.	1.1	31
40	Spared place and object-place learning but limited spatial working memory capacity in rats with selective lesions of the dentate gyrus. Brain Research Bulletin, 2007, 72, 315-323.	1.4	30
41	The Social Component of Environmental Enrichment Is a Pro-neurogenic Stimulus in Adult c57BL6 Female Mice. Frontiers in Cell and Developmental Biology, 2019, 7, 62.	1.8	26
42	Antidepressant and Proneurogenic Influence of Environmental Enrichment in Mice: Protective Effects vs Recovery. Neuropsychopharmacology, 2011, 36, 2460-2468.	2.8	25
43	Multiple birthdating analyses in adult neurogenesis: a line-up of the usual suspects. Frontiers in Neuroscience, 2011, 5, 76.	1.4	24
44	GSK3 $\beta$ Overexpression in Dentate Gyrus Neural Precursor Cells Expands the Progenitor Pool and Enhances Memory Skills. Journal of Biological Chemistry, 2016, 291, 8199-8213.	1.6	23
45	Anti-IL17 treatment ameliorates Down syndrome phenotypes in mice. Brain, Behavior, and Immunity, 2018, 73, 235-251.	2.0	21
46	Untold New Beginnings: Adult Hippocampal Neurogenesis and Alzheimer's Disease. Journal of Alzheimer's Disease, 2018, 64, S497-S505.	1.2	20
47	Exercising New Neurons to Vanquish Alzheimer Disease. Brain Plasticity, 2018, 4, 111-126.	1.9	18
48	GSK-3 $\beta$ Overexpression Alters the Dendritic Spines of Developmentally Generated Granule Neurons in the Mouse Hippocampal Dentate Gyrus. Frontiers in Neuroanatomy, 2017, 11, 18.	0.9	17
49	Looking for novel functions of tau. Biochemical Society Transactions, 2012, 40, 653-655.	1.6	16
50	Retroviral induction of GSK-3 $\beta$ expression blocks the stimulatory action of physical exercise on the maturation of newborn neurons. Cellular and Molecular Life Sciences, 2016, 73, 3569-3582.	2.4	15
51	Expression of frontotemporal dementia with parkinsonism associated to chromosome 17 tau induces specific degeneration of the ventral dentate gyrus and depressive-like behavior in mice. Neuroscience, 2011, 196, 215-227.	1.1	13
52	Activity-Dependent Reconnection of Adult-Born Dentate Granule Cells in a Mouse Model of Frontotemporal Dementia. Journal of Neuroscience, 2019, 39, 5794-5815.	1.7	12
53	Maturation dynamics of the axon initial segment (AIS) of newborn dentate granule cells in young adult C57BL/6j mice. Journal of Neuroscience, 2019, 39, 2253-18.	1.7	11
54	Alzheimer disease-like cellular phenotype of newborn granule neurons can be reversed in GSK-3 $\beta$ -overexpressing mice. Molecular Psychiatry, 2013, 18, 395-395.	4.1	6

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55	New Beginnings in Alzheimer's Disease: The Most Prevalent Tauopathy. <i>Journal of Alzheimer's Disease</i> , 2018, 64, S529-S534.	1.2	6
56	Response to Comment on "Impact of neurodegenerative diseases on human adult hippocampal neurogenesis". <i>Science</i> , 2022, 376, eabn7270.	6.0	6
57	Response to Comment on "Impact of neurodegenerative diseases on human adult hippocampal neurogenesis". <i>Science</i> , 2022, 376, eabo0920.	6.0	5
58	Versatile use of rtTA-expressing retroviruses in the study of neurodegeneration. <i>Oncotarget</i> , 2017, 8, 10771-10772.	0.8	3
59	Adult-born neurons in brain circuitry. <i>Science</i> , 2019, 364, 530-530.	6.0	1
60	A new player in the beneficial effects of exercise on the aged brain. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 184.	7.1	1
61	Adult hippocampal neurogenesis is abundant in neurologically healthy subjects and drops sharply in Alzheimer's disease patients. <i>Alzheimer's and Dementia</i> , 2020, 16, e047288.	0.4	0
62	GSK-3 $\beta$ S9A overexpression leads murine hippocampal neural precursors to acquire an astroglial phenotype in vivo. <i>Developmental Neurobiology</i> , 2021, 81, 710-723.	1.5	0