Mariana Vargas-Caballero

List of Publications by Year
in descending order

24	1,552	567281 15	677142 22
papers	citations	h-index	g-index

27	27	27	3112
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pharmacological targeting of CSF1R inhibits microglial proliferation and prevents the progression of Alzheimerâ€™s-like pathology. Brain, 2016, 139, 891-907.	7.6	389
2	Tau Protein Is Required for Amyloid Î²-Induced Impairment of Hippocampal Long-Term Potentiation. Journal of Neuroscience, 2011, 31, 1688-1692.	3.6	275
3	Treatment of inflammatory and neuropathic pain by uncoupling Src from the NMDA receptor complex. Nature Medicine, 2008, 14, 1325-1332.	30.7	195
4	Visual stimuliâ€“induced LTD of GABAergic synapses mediated by presynaptic NMDA receptors. Nature Neuroscience, 2006, 9, 372-380.	14.8	98
5	Fast and Slow Voltage-Dependent Dynamics of Magnesium Block in the NMDA Receptor: The Asymmetric Trapping Block Model. Journal of Neuroscience, 2004, 24, 6171-6180.	3.6	86
6	In situ measurement of the electrical potential across the phagosomal membrane using FRET and its contribution to the proton-motive force. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9523-9528.	7.1	78
7	Temporal dynamics of hippocampal neurogenesis in chronic neurodegeneration. Brain, 2014, 137, 2312-2328.	7.6	74
8	Î±5 Subunit-containing GABAA receptors mediate a slowly decaying inhibitory synaptic current in CA1 pyramidal neurons following Schaffer collateral activation. Neuropharmacology, 2010, 58, 668-675.	4.1	44
9	A Slow Fraction of Mg2+ Unblock of NMDA Receptors Limits Their Contribution to Spike Generation in Cortical Pyramidal Neurons. Journal of Neurophysiology, 2003, 89, 2778-2783.	1.8	43
10	Tau Misfolding Efficiently Propagates between Individual Intact Hippocampal Neurons. Journal of Neuroscience, 2019, 39, 9623-9632.	3.6	34
11	A 5â€² UTR GGN repeat controls localisation and translation of a potassium leak channel mRNA through G-quadruplex formation. Nucleic Acids Research, 2020, 48, 9822-9839.	14.5	30
12	Spread of synaptic potentials through electrical synapses in Retzius neurones of the leech. Journal of Experimental Biology, 2001, 204, 3241-3250.	1.7	29
13	Synaptic Integration in Electrically Coupled Neurons. Biophysical Journal, 2004, 86, 646-655.	0.5	28
14	Emergence of synaptic and cognitive impairment in a mature-onset APP mouse model of Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2019, 7, 25.	5.2	28
15	Stochastic and deterministic dynamics of intrinsically irregular firing in cortical inhibitory interneurons. ELife, 2016, 5, .	6.0	26
16	Vagus Nerve Stimulation as a Potential Therapy in Early Alzheimerâ€™s Disease: A Review. Frontiers in Human Neuroscience, 2022, 16, 866434.	2.0	25
17	Age-Dependent Changes in Synaptic NMDA Receptor Composition in Adult Human Cortical Neurons. Cerebral Cortex, 2020, 30, 4246-4256.	2.9	19
18	Wild-Type, but Not Mutant N296H, Human Tau Restores AÎ²-Mediated Inhibition of LTP in Tauâ^'/â^' mice. Frontiers in Neuroscience, 2017, 11, 201.	2.8	15

#	Article	IF	Citations
19	The use of human neurons for novel drug discovery in dementia research. Expert Opinion on Drug Discovery, 2016, 11, 355-367.	5.0	12
20	A primate-specific short GluN2A-NMDA receptor isoform is expressed in the human brain. Molecular Brain, 2019, 12, 64.	2.6	12
21	Elevated amyloid beta disrupts the nanoscale organization and function of synaptic vesicle pools in hippocampal neurons. Cerebral Cortex, 2023, 33, 1263-1276.	2.9	5
22	Differential vulnerability of hippocampal CA3-CA1 synapses to AÎ². Acta Neuropathologica Communications, 2022, 10, 45.	5.2	4
23	Co-culture of Murine Neurons Using a Microfluidic Device for The Study of Tau Misfolding Propagation. Bio-protocol, 2020, 10, e3718.	0.4	1
24	Bridging Two Cultures: Minimalistic Networks Prepared by Microfluidic Arraying, and Open Access Compartments for Electrophysiology. Neuromethods, 2015, , 39-56.	0.3	0