Jean-Marie Billard

List of Publications by Year
in descending order

24 papers	1,466 citations	516215 16 h-index	642321 23 g-index
24 all docs	24 docs citations	24 times ranked	2132 citing authors

#	Article	IF	Citations
1	Neuronal d-Serine and Glycine Release Via the Asc-1 Transporter Regulates NMDA Receptor-Dependent Synaptic Activity. Journal of Neuroscience, 2013, 33, 3533-3544.	1.7	186
2	Impaired long-term spatial and recognition memory and enhanced CA1 hippocampal LTP in the dystrophin-deficient Dmdmdx mouse. Neurobiology of Disease, 2004, 17, 10-20.	2.1	138
3	Identity of the NMDA receptor coagonist is synapse specific and developmentally regulated in the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E204-13.	3.3	111
4	Parallel Loss of Hippocampal LTD and Cognitive Flexibility in a Genetic Model of Hyperdopaminergia. Neuropsychopharmacology, 2007, 32, 2108-2116.	2.8	106
5	Presynaptic and postsynaptic GABAB receptors of neocortical neurons of the rat in vitro: Differences in pharmacology and ionic mechanisms. , 1997, 25, 62-72.		102
6	d-Amino acids in brain neurotransmission and synaptic plasticity. Amino Acids, 2012, 43, 1851-1860.	1.2	90
7	The NMDA receptor activation by <scp>d</scp> -serine and glycine is controlled by an astrocytic Phgdh-dependent serine shuttle. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20736-20742.	3.3	89
8	Reversal of ageâ€related oxidative stress prevents hippocampal synaptic plasticity deficits by protecting <scp>d</scp>â€serineâ€dependent NMDA receptor activation. Aging Cell, 2012, 11, 336-344.	3.0	88
9	ASCT1 (Slc1a4) transporter is a physiologic regulator of brain <scp>d</scp> -serine and neurodevelopment. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9628-9633.	3.3	77
10	Time and space profiling of <scp>NMDA</scp> receptor coâ€agonist functions. Journal of Neurochemistry, 2015, 135, 210-225.	2.1	72
11	Reduction in glutamate uptake is associated with extrasynaptic NMDA and metabotropic glutamate receptor activation at the hippocampal CA1 synapse of aged rats. Aging Cell, 2010, 9, 722-735.	3.0	70
12	Omegaâ€3 fatty acids deficiency aggravates glutamatergic synapse and astroglial aging in the rat hippocampal <scp>CA</scp>1. Aging Cell, 2013, 12, 76-84.	3.0	64
13	Different phosphatase-dependent mechanisms mediate long-term depression and depotentiation of long-term potentiation in mouse hippocampal CA1 area. European Journal of Neuroscience, 2003, 18, 1279-1285.	1.2	62
14	Continuous enriched environment improves learning and memory in adult NMRI mice through theta burst-related-LTP independent mechanisms but is not efficient in advanced aged animals. Mechanisms of Ageing and Development, 2011, 132, 240-248.	2.2	51
15	d-Serine in the aging hippocampus. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 18-24.	1.4	32
16	sAÎ²PPÎ± Improves Hippocampal NMDA-Dependent Functional Alterations Linked to Healthy Aging. Journal of Alzheimer's Disease, 2015, 48, 927-935.	1.2	27
17	Investigating brain <scp>d</scp>â€serine: Advocacy for good practices. Acta Physiologica, 2019, 226, e13257.	1.8	25
18	Changes in Serine Racemase-Dependent Modulation of NMDA Receptor: Impact on Physiological and Pathological Brain Aging. Frontiers in Molecular Biosciences, 2018, 5, 106.	1.6	15

#	Article	IF	Citations
19	Genomic transcriptional profiling in LOU/C/Jall rats identifies genes for successful aging. Brain Structure and Function, 2013, 218, 1501-1512.	1.2	12
20	Interplay between 5-HT4 Receptors and GABAergic System within CA1 Hippocampal Synaptic Plasticity. Cerebral Cortex, 2021, 31, 694-701.	1.6	12
21	Long-Term Depression in the Hippocampal CA1 Area of Aged Rats, Revisited: Contribution of Temporal Constraints Related to Slice Preparation. PLoS ONE, 2010, 5, e9843.	1.1	11
22	Serine Racemase Deletion Affects the Excitatory/Inhibitory Balance of the Hippocampal CA1 Network. International Journal of Molecular Sciences, 2020, 21, 9447.	1.8	10
23	Ascâ€1 transporter activation: an alternative to rescue ageâ€related alterations in functional plasticity at rat hippocampal <scp>CA</scp>3/<scp>CA</scp>1 synapses. Journal of Neurochemistry, 2018, 147, 514-525.	2.1	9
24	Functional Dysregulations in CA1 Hippocampal Networks of a 3-Hit Mouse Model of Schizophrenia. International Journal of Molecular Sciences, 2021, 22, 2644.	1.8	7