Jean-Marie Billard

List of Publications by Year
in descending order

24 papers	1,466 citations	516710 16 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	2132 citing authors

#	Article	IF	Citations
1	Interplay between 5-HT4 Receptors and GABAergic System within CA1 Hippocampal Synaptic Plasticity. Cerebral Cortex, 2021, 31, 694-701.	2.9	12
2	Functional Dysregulations in CA1 Hippocampal Networks of a 3-Hit Mouse Model of Schizophrenia. International Journal of Molecular Sciences, 2021, 22, 2644.	4.1	7
3	Serine Racemase Deletion Affects the Excitatory/Inhibitory Balance of the Hippocampal CA1 Network. International Journal of Molecular Sciences, 2020, 21, 9447.	4.1	10
4	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.	7.1	89
5	Investigating brain <scp>d</scp>â€serine: Advocacy for good practices. Acta Physiologica, 2019, 226, e13257.	3.8	25
6	Changes in Serine Racemase-Dependent Modulation of NMDA Receptor: Impact on Physiological and Pathological Brain Aging. Frontiers in Molecular Biosciences, 2018, 5, 106.	3.5	15
7	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.	7.1	77
8	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.	3.9	9
9	Time and space profiling of <scp>NMDA</scp> receptor coâ€agonist functions. Journal of Neurochemistry, 2015, 135, 210-225.	3.9	72
10	sAÎ²PPÎ± Improves Hippocampal NMDA-Dependent Functional Alterations Linked to Healthy Aging. Journal of Alzheimer's Disease, 2015, 48, 927-935.	2.6	27
11	d-Serine in the aging hippocampus. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 18-24.	2.8	32
12	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.	7.1	111
13	Genomic transcriptional profiling in LOU/C/Jall rats identifies genes for successful aging. Brain Structure and Function, 2013, 218, 1501-1512.	2.3	12
14	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.	6.7	64
15	Neuronal d-Serine and Glycine Release Via the Asc-1 Transporter Regulates NMDA Receptor-Dependent Synaptic Activity. Journal of Neuroscience, 2013, 33, 3533-3544.	3.6	186
16	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.	6.7	88
17	d-Amino acids in brain neurotransmission and synaptic plasticity. Amino Acids, 2012, 43, 1851-1860.	2.7	90
18	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.	4.6	51

#	Article	IF	Citations
19	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.	6.7	70
20	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.	2.5	11
21	Parallel Loss of Hippocampal LTD and Cognitive Flexibility in a Genetic Model of Hyperdopaminergia. Neuropsychopharmacology, 2007, 32, 2108-2116.	5.4	106
22	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.	4.4	138
23	Different phosphataseâ€dependent mechanisms mediate longâ€term depression and depotentiation of longâ€term potentiation in mouse hippocampal CA1 area. European Journal of Neuroscience, 2003, 18, 1279-1285.	2.6	62
24	Presynaptic and postsynaptic GABAB receptors of neocortical neurons of the rat in vitro: Differences in pharmacology and ionic mechanisms. , 1997, 25, 62-72.		102