Nicola Berretta

List of Publications by Year
in descending order

63 papers	3,334 citations	218677 26 h-index	144013 57 g-index
63 all docs	63 docs citations	63 times ranked	4089 citing authors

#	Article	IF	Citations
1	Induction of LTP in the hippocampus needs synaptic activation of glutamate metabotropic receptors. Nature, 1993, 363, 347-350.	27.8	716
2	Dopamine neuronal loss contributes to memory and reward dysfunction in a model of Alzheimerâ€™s disease. Nature Communications, 2017, 8, 14727.	12.8	308
3	Tonic facilitation of glutamate release by presynaptic N-methyl-d-aspartate autoreceptors in the entorhinal cortex. Neuroscience, 1996, 75, 339-344.	2.3	241
4	Presynaptic Facilitation of Glutamatergic Synapses to Dopaminergic Neurons of the Rat Substantia Nigra by Endogenous Stimulation of Vanilloid Receptors. Journal of Neuroscience, 2003, 23, 3136-3144.	3.6	237
5	Tissue plasminogen activator controls multiple forms of synaptic plasticity and memory. European Journal of Neuroscience, 2000, 12, 1002-1012.	2.6	158
6	Inflammation Subverts Hippocampal Synaptic Plasticity in Experimental Multiple Sclerosis. PLoS ONE, 2013, 8, e54666.	2.5	123
7	l-DOPA: A scapegoat for accelerated neurodegeneration in Parkinson's disease?. Progress in Neurobiology, 2011, 94, 389-407.	5.7	100
8	Glutamate Controls the Induction of GABA-Mediated Giant Depolarizing Potentials Through AMPA Receptors in Neonatal Rat Hippocampal Slices. Journal of Neurophysiology, 1999, 81, 2095-2102.	1.8	74
9	Interleukin-1Î² Promotes Long-Term Potentiation in Patients with Multiple Sclerosis. NeuroMolecular Medicine, 2014, 16, 38-51.	3.4	64
10	ProNGFNGF imbalance triggers learning and memory deficits, neurodegeneration and spontaneous epileptic-like discharges in transgenic mice. Cell Death and Differentiation, 2013, 20, 1017-1030.	11.2	62
11	A comparison of spontaneous EPSCs in layer II and layer IV-V neurons of the rat entorhinal cortex in vitro. Journal of Neurophysiology, 1996, 76, 1089-1100.	1.8	51
12	Muscarinic receptors depress GABAergic synaptic transmission in rat midbrain dopamine neurons. Neuroscience, 2000, 96, 299-307.	2.3	50
13	Dopamine loss alters the hippocampus-nucleus accumbens synaptic transmission in the Tg2576 mouse model of Alzheimer's disease. Neurobiology of Disease, 2018, 116, 142-154.	4.4	50
14	On the properties of identified dopaminergic neurons in the mouse substantia nigra and ventral tegmental area. European Journal of Neuroscience, 2017, 45, 92-105.	2.6	46
15	Calcineurin Inhibition Rescues Early Synaptic Plasticity Deficits in a Mouse Model of Alzheimerâ€™s Disease. NeuroMolecular Medicine, 2013, 15, 541-548.	3.4	45
16	Two distinct forms of long-term depression coexist at the mossy fiber-CA3 synapse in the hippocampus during development. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 8310-8315.	7.1	43
17	Molecular and synaptic changes in the hippocampus underlying superior spatial abilities in pre-symptomatic G93A+/+ mice overexpressing the human Cu/Zn superoxide dismutase (Gly93Ââ†'ÂALA) mutation. Experimental Neurology, 2006, 197, 505-514.	4.1	43
18	Effects of dopamine, D-1 and D-2 dopaminergic agonists on the excitability of hippocampal CA1 pyramidal cells in guinea pig. Experimental Brain Research, 1990, 83, 124-30.	1.5	41

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19	Dual effects of l-DOPA on nigral dopaminergic neurons. Experimental Neurology, 2013, 247, 582-594.	4.1	39
20	Altered long-term corticostriatal synaptic plasticity in transgenic mice overexpressing human CU/ZN superoxide dismutase (GLY93â†'ALA) mutation. Neuroscience, 2003, 118, 399-408.	2.3	38
21	Alpha1-adrenoceptor-mediated excitation of substantia nigra pars reticulata neurons. Neuroscience, 2000, 98, 599-604.	2.3	34
22	Acute Effects of 6-Hydroxydopamine on Dopaminergic Neurons of the Rat Substantia Nigra Pars Compacta In Vitro. NeuroToxicology, 2005, 26, 869-881.	3.0	34
23	Functional alterations of the dopaminergic and glutamatergic systems in spontaneous Î±-synuclein overexpressing rats. Experimental Neurology, 2017, 287, 21-33.	4.1	34
24	Postsynaptic Alteration of NR2A Subunit and Defective Autophosphorylation of alphaCaMKII at Threonine-286 Contribute to Abnormal Plasticity and Morphology of Upper Motor Neurons in Presymptomatic SOD1G93A Mice, a Murine Model for Amyotrophic Lateral Sclerosis. Cerebral Cortex, 2011, 21, 796-805.	2.9	33
25	Astrocyte-Dependent Vulnerability to Excitotoxicity in Spermine Oxidase-Overexpressing Mouse. NeuroMolecular Medicine, 2016, 18, 50-68.	3.4	32
26	Adenosine A1 receptor stimulation reduces D1 receptor-mediated GABAergic transmission from striato-nigral terminals and attenuates l-DOPA-induced dyskinesia in dopamine-denervated mice. Experimental Neurology, 2014, 261, 733-743.	4.1	29
27	Ambra1 Shapes Hippocampal Inhibition/Excitation Balance: Role in Neurodevelopmental Disorders. Molecular Neurobiology, 2018, 55, 7921-7940.	4.0	28
28	Firing properties and functional connectivity of substantia nigra pars compacta neurones recorded with a multi-electrode arrayin vitro. Journal of Physiology, 2010, 588, 1719-1735.	2.9	27
29	Phosphodiesterase 10A controls D1-mediated facilitation of GABA release from striato-nigral projections under normal and dopamine-depleted conditions. Neuropharmacology, 2014, 76, 127-136.	4.1	27
30	Learning discloses abnormal structural and functional plasticity at hippocampal synapses in the APP23 mouse model of Alzheimer's disease. Learning and Memory, 2010, 17, 236-240.	1.3	26
31	Distinct Mechanisms of Presynaptic Inhibition at GABAergic Synapses of the Rat Substantia Nigra Pars Compacta. Journal of Neurophysiology, 2005, 94, 1992-2003.	1.8	25
32	Memantine Inhibits ATP-Dependent K+ Conductances in Dopamine Neurons of the Rat Substantia Nigra Pars Compacta. Journal of Pharmacology and Experimental Therapeutics, 2007, 322, 721-729.	2.5	25
33	Synaptic plasticity in the basal ganglia: A similar code for physiological and pathological conditions. Progress in Neurobiology, 2008, 84, 343-362.	5.7	25
34	Postsynaptic hyperpolarization increases the strength of AMPA-mediated synaptic transmission at large synapses between mossy fibers and CA3 pyramidal cells. Neuropharmacology, 2000, 39, 2288-2301.	4.1	24
35	Gamma-hydroxybutyrate and ethanol depress spontaneous excitatory postsynaptic currents in dopaminergic neurons of the substantia nigra. Brain Research, 2004, 997, 62-66.	2.2	23
36	Protective role of hydrogen peroxide in oxygen-deprived dopaminergic neurones of the rat substantia nigra. Journal of Physiology, 2005, 568, 97-110.	2.9	23

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37	Presynaptic Modulation of Spontaneous Inhibitory Postsynaptic Currents by Gamma-hydroxybutyrate in the Substantia Nigra Pars Compacta. Neuropsychopharmacology, 2004, 29, 537-543.	5.4	21
38	Synaptic plasticity from amygdala to perirhinal cortex: a possible mechanism for emotional enhancement of visual recognition memory?. European Journal of Neuroscience, 2012, 36, 2421-2427.	2.6	21
39	MicroRNA-34 Contributes to the Stress-related Behavior and Affects 5-HT Prefrontal/GABA Amygdalar System through Regulation of Corticotropin-releasing Factor Receptor 1. Molecular Neurobiology, 2018, 55, 7401-7412.	4.0	21
40	A novel form of long-term depression in the CA1 area of the adult rat hippocampus independent of glutamate receptors activation. European Journal of Neuroscience, 1998, 10, 2957-2963.	2.6	20
41	Differences in amplitudeâ€“voltage relations between minimal and composite mossy fibre responses of rat CA3 hippocampal neurons support the existence of intrasynaptic ephaptic feedback in large synapses. Neuroscience, 2000, 101, 323-336.	2.3	20
42	Depression of mGluR-mediated IPSCs by 5-HT in dopamine neurons of the rat substantia nigra pars compacta. European Journal of Neuroscience, 2003, 18, 2743-2750.	2.6	20
43	Associative mossy fibre LTP induced by pairing presynaptic stimulation with postsynaptic hyperpolarization of CA3 neurons in rat hippocampal slice. European Journal of Neuroscience, 2003, 17, 1425-1437.	2.6	18
44	A continuous high frequency stimulation of the subthalamic nucleus determines a suppression of excitatory synaptic transmission in nigral dopaminergic neurons recorded in vitro. Experimental Neurology, 2012, 233, 292-302.	4.1	17
45	Long-term synaptic changes induced by intracellular tetanization of CA3 pyramidal neurons in hippocampal slices from juvenile rats. Neuroscience, 1999, 93, 469-477.	2.3	16
46	Electrophysiological Effects of Trace Amines on Mesencephalic Dopaminergic Neurons. Frontiers in Systems Neuroscience, 2011, 5, 56.	2.5	16
47	Pathophysiological Features of Nigral Dopaminergic Neurons in Animal Models of Parkinsonâ€™s Disease. International Journal of Molecular Sciences, 2022, 23, 4508.	4.1	16
48	Hippocampus versus entorhinal cortex decoupling by an NR2 subunitâ€“specific block of NMDA receptors in a rat in vitro model of temporal lobe epilepsy. Epilepsia, 2012, 53, e80-4.	5.1	15
49	Glutamate receptor stimulation induces a persistent rhythmicity of the GABAergic inputs to rat midbrain dopaminergic neurons. European Journal of Neuroscience, 2001, 14, 777-784.	2.6	14
50	Trace amines reduce GABAB receptor-mediated presynaptic inhibition at GABAergic synapses of the rat substantia nigra pars compacta. Brain Research, 2005, 1062, 175-178.	2.2	14
51	Differential effect of carbamazepine and oxcarbazepine on excitatory synaptic transmission in rat hippocampus. Synapse, 2008, 62, 783-789.	1.2	14
52	Nitric oxide sensitive depolarizationâ€induced hyperpolarization: a possible role for gap junctions during development. European Journal of Neuroscience, 1998, 10, 397-403.	2.6	13
53	Tyrosinase mediated oxidative functionalization in the synthesis of DOPA-derived peptidomimetics with anti-Parkinson activity. RSC Advances, 2017, 7, 20502-20509.	3.6	13
54	Reversal of dopamineâ€mediated firing inhibition through activation of the dopamine transporter in substantia nigra pars compacta neurons. British Journal of Pharmacology, 2018, 175, 3534-3547.	5.4	13

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55	Properties of dopaminergic neurons in organotypic mesencephalic-striatal co-cultures - evidence for a facilitatory effect of dopamine on the glutamatergic input mediated by Î±-1 adrenergic receptors. European Journal of Neuroscience, 2011, 33, 1622-1636.	2.6	11
56	ProNGF Drives Localized and Cell Selective Parvalbumin Interneuron and Perineuronal Net Depletion in the Dentate Gyrus of Transgenic Mice. Frontiers in Molecular Neuroscience, 2017, 10, 20.	2.9	10
57	L-DOPA-quinone Mediated Recovery from GIRK Channel Firing Inhibition in Dopaminergic Neurons. ACS Medicinal Chemistry Letters, 2019, 10, 431-436.	2.8	9
58	The Î²-carboline derivative DMCM decreases Î³-aminobutyric acid responses and Ca2+-mediated K+-conductance in rat neocortical neurons in vitro. Neuropharmacology, 1994, 33, 875-883.	4.1	7
59	NMDA receptors and long-term potentiation in the hippocampus. , 1995, , 294-312.		6
60	NGF antibodies impair long-term depression at the mossy fibre-CA3 synapse in the developing hippocampus. Developmental Brain Research, 1997, 101, 295-297.	1.7	5
61	Cholinergic function in the hippocampus of juvenile rats chronically deprived of NGF. Developmental Brain Research, 1998, 109, 137-147.	1.7	5
62	Long-Term Depression of Striatal DA Release Induced by mGluRs via Sustained Hyperactivity of Local Cholinergic Interneurons. Frontiers in Cellular Neuroscience, 2021, 15, 798464.	3.7	1
63	New Insights Into mGluRs Function in the Substantia Nigra Pars Compacta. Advances in Behavioral Biology, 2002, , 223-232.	0.2	0