

# Carla Perrone-Capano

## List of Publications by Year in descending order

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78  
papers

2,904  
citations

126708

33  
h-index

182168

51  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Organized Criticality Model for Brain Plasticity. <i>Physical Review Letters</i> , 2006, 96, 028107.	2.9	210
2	Chronic activation of ERK and neurodegenerative diseases. <i>BioEssays</i> , 2003, 25, 1085-1095.	1.2	183
3	Active polysomes in the axoplasm of the squid giant axon. <i>Journal of Neuroscience Research</i> , 1991, 28, 18-28.	1.3	115
4	Balance between Excitation and Inhibition Controls the Temporal Organization of Neuronal Avalanches. <i>Physical Review Letters</i> , 2012, 108, 228703.	2.9	113
5	Methylphenidate Administration to Adolescent Rats Determines Plastic Changes on Reward-Related Behavior and Striatal Gene Expression. <i>Neuropsychopharmacology</i> , 2006, 31, 1946-1956.	2.8	110
6	Neutralization of IL-17 rescues amyloid $\beta$ -induced neuroinflammation and memory impairment. <i>British Journal of Pharmacology</i> , 2019, 176, 3544-3557.	2.7	93
7	Altered midbrain dopaminergic neurotransmission during development in an animal model of ADHD. <i>Neuroscience and Biobehavioral Reviews</i> , 2003, 27, 661-669.	2.9	87
8	Bdnf gene is a downstream target of Nurr1 transcription factor in rat midbrain neurons in vitro. <i>Journal of Neurochemistry</i> , 2007, 102, 441-453.	2.1	85
9	Adult neural stem cells: an endogenous tool to repair brain injury?. <i>Journal of Neurochemistry</i> , 2013, 124, 159-167.	2.1	79
10	Occurrence and Sequence Complexity of Polyadenylated RNA in Squid Axoplasm. <i>Journal of Neurochemistry</i> , 1987, 49, 698-704.	2.1	74
11	Methylphenidate to adolescent rats drives enduring changes of accumbal Htr7 expression: implications for impulsive behavior and neuronal morphology. <i>Genes, Brain and Behavior</i> , 2009, 8, 356-368.	1.1	66
12	Serotonin 5-HT <sub>7</sub> receptor increases the density of dendritic spines and facilitates synaptogenesis in forebrain neurons. <i>Journal of Neurochemistry</i> , 2017, 141, 647-661.	2.1	66
13	Short-Term Effects of Adolescent Methylphenidate Exposure on Brain Striatal Gene Expression and Sexual/Endocrine Parameters in Male Rats. <i>Annals of the New York Academy of Sciences</i> , 2006, 1074, 52-73.	1.8	65
14	The serotonin receptor 7 promotes neurite outgrowth via ERK and Cdk5 signaling pathways. <i>Neuropharmacology</i> , 2013, 67, 155-167.	2.0	62
15	Activity-dependent neural network model on scale-free networks. <i>Physical Review E</i> , 2007, 76, 016107.	0.8	61
16	Multiplex semi-quantitative reverse transcriptase-polymerase chain reaction of low abundance neuronal mRNAs. <i>Brain Research Protocols</i> , 1999, 4, 395-406.	1.7	57
17	$\beta$ -Actin and $\beta$ -Tubulin are components of a heterogeneous mRNA population present in the squid giant axon. <i>Molecular and Cellular Neurosciences</i> , 1992, 3, 133-144.	1.0	56
18	Neurofilament Proteins Are Synthesized in Nerve Endings from Squid Brain. <i>Journal of Neurochemistry</i> , 1993, 61, 1144-1146.	2.1	56

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19	The serotonin receptor 7 and the structural plasticity of brain circuits. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 318.	1.0	51
20	miR-34b/c Regulates Wnt1 and Enhances Mesencephalic Dopaminergic Neuron Differentiation. <i>Stem Cell Reports</i> , 2018, 10, 1237-1250.	2.3	47
21	Cystatin B Involvement in Synapse Physiology of Rodent Brains and Human Cerebral Organoids. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 195.	1.4	47
22	Protein Synthesis in a Synaptosomal Fraction from Squid Brain. <i>Molecular and Cellular Neurosciences</i> , 1993, 4, 366-374.	1.0	46
23	Kinesin mRNA Is Present in the Squid Giant Axon. <i>Journal of Neurochemistry</i> , 1994, 63, 13-18.	2.1	46
24	The 5-HT7 receptor triggers cerebellar long-term synaptic depression via PKC-MAPK. <i>Neuropharmacology</i> , 2016, 101, 426-438.	2.0	46
25	Direct Regulation of Pitx3 Expression by Nurr1 in Culture and in Developing Mouse Midbrain. <i>PLoS ONE</i> , 2012, 7, e30661.	1.1	45
26	DNA Turnover in Rat Cerebral Cortex. <i>Journal of Neurochemistry</i> , 1982, 38, 52-56.	2.1	44
27	Activation of 5-HT7 receptor stimulates neurite elongation through mTOR, Cdc42 and actin filaments dynamics. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 62.	1.0	43
28	Interplay between Peripheral and Central Inflammation in Obesity-Promoted Disorders: The Impact on Synaptic Mitochondrial Functions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5964.	1.8	42
29	GDNF signaling in embryonic midbrain neurons in vitro. <i>Brain Research</i> , 2007, 1159, 28-39.	1.1	39
30	Target cells modulate dopamine transporter gene expression during brain development. <i>NeuroReport</i> , 1994, 5, 1145-1148.	0.6	38
31	Role of the Serotonin Receptor 7 in Brain Plasticity: From Development to Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 505.	1.8	38
32	Tissue-transglutaminase in rat and human brain: light and electron immunocytochemical analysis and in situ hybridization study. <i>Brain Research Bulletin</i> , 2001, 56, 173-182.	1.4	36
33	Local gene expression in nerve endings. <i>Developmental Neurobiology</i> , 2014, 74, 279-291.	1.5	36
34	Neurofilament homeostasis and motoneurone degeneration. <i>BioEssays</i> , 2000, 23, 24-33.	1.2	31
35	Dopamine transporter gene expression in rat mesencephalic dopaminergic neurons is increased by direct interaction with target striatal cells in vitro. <i>Molecular Brain Research</i> , 1996, 39, 160-166.	2.5	30
36	Modulation of nurr1 gene expression in mesencephalic dopaminergic neurones. <i>Journal of Neurochemistry</i> , 2004, 88, 1283-1294.	2.1	30

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37	Early upregulation of medium neurofilament gene expression in developing spinal cord of the wobbler mouse mutant. <i>Molecular Brain Research</i> , 1996, 38, 267-275.	2.5	29
38	Enhancement of Dopaminergic Differentiation in Proliferating Midbrain Neuroblasts by Sonic Hedgehog and Ascorbic Acid. <i>Neural Plasticity</i> , 2004, 11, 45-57.	1.0	28
39	Social withdrawal and gambling-like profile after lentiviral manipulation of DAT expression in the rat accumbens. <i>International Journal of Neuropsychopharmacology</i> , 2010, 13, 1329-1342.	1.0	28
40	Deregulated Local Protein Synthesis in the Brain Synaptosomes of a Mouse Model for Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2020, 57, 1529-1541.	1.9	25
41	Methylphenidate administration determines enduring changes in neuroglial network in rats. <i>European Neuropsychopharmacology</i> , 2012, 22, 53-63.	0.3	23
42	The microRNA-29a Modulates Serotonin 5-HT7 Receptor Expression and Its Effects on Hippocampal Neuronal Morphology. <i>Molecular Neurobiology</i> , 2019, 56, 8617-8627.	1.9	23
43	Synthesis of rat brain DNA during acquisition of an appetitive task. <i>Pharmacology Biochemistry and Behavior</i> , 1986, 25, 651-658.	1.3	22
44	Gene expression pathways induced by axotomy and decentralization of rat superior cervical ganglion neurons. <i>European Journal of Neuroscience</i> , 2006, 23, 65-74.	1.2	22
45	Epigenetic cues in midbrain dopaminergic neuron development. <i>Neuroscience and Biobehavioral Reviews</i> , 2000, 24, 119-124.	2.9	21
46	Regionalized Neurofilament Accumulation and Motoneuron Degeneration Are Linked Phenotypes in Wobbler Neuromuscular Disease. <i>Neurobiology of Disease</i> , 2001, 8, 581-589.	2.1	18
47	Chronic cocaine administration modulates the expression of transcription factors involved in midbrain dopaminergic neuron function. <i>Experimental Neurology</i> , 2007, 203, 472-480.	2.0	18
48	Presynaptic protein synthesis and brain plasticity: From physiology to neuropathology. <i>Progress in Neurobiology</i> , 2021, 202, 102051.	2.8	17
49	Ontogeny of AMPA receptor gene expression in the developing rat midbrain and striatum. <i>Molecular Brain Research</i> , 2001, 96, 133-141.	2.5	16
50	Ontogeny of kainate receptor gene expression in the developing rat midbrain and striatum. <i>Molecular Brain Research</i> , 2002, 104, 1-10.	2.5	16
51	Molecular Regulation in Dopaminergic Neuron Development. Cues to Unveil Molecular Pathogenesis and Pharmacological Targets of Neurodegeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3995.	1.8	16
52	Complexity of Nuclear and Polysomal RNA from Squid Optic Lobe and Gill. <i>Journal of Neurochemistry</i> , 1986, 46, 1517-1521.	2.1	15
53	Neurodevelopmental Disorders: Effect of High-Fat Diet on Synaptic Plasticity and Mitochondrial Functions. <i>Brain Sciences</i> , 2020, 10, 805.	1.1	15
54	Epigenetic factors and midbrain dopaminergic neurone development. <i>BioEssays</i> , 1996, 18, 817-824.	1.2	14

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55	Structural modifications of the serotonin 5-HT <sub>7</sub> receptor agonist N-(4-cyanophenylmethyl)-4-(2-biphenyl)-1-piperazinehexanamide (LP-211) to improve in vitro microsomal stability: A case study. <i>European Journal of Medicinal Chemistry</i> , 2016, 120, 363-379.	2.6	14
56	Restriction of Neural Precursor Ability to Respond to Nurr1 by Early Regional Specification. <i>PLoS ONE</i> , 2012, 7, e51798.	1.1	13
57	Messenger RNAs in synaptosomal fractions from rat brain. <i>Molecular Brain Research</i> , 2001, 97, 171-176.	2.5	12
58	Comparison of Gene Expression Profile in Embryonic Mesencephalon and Neuronal Primary Cultures. <i>PLoS ONE</i> , 2009, 4, e4977.	1.1	12
59	Impulsivity and home-cage activity are decreased by lentivirus-mediated silencing of serotonin transporter in the rat hippocampus. <i>Neuroscience Letters</i> , 2013, 548, 38-43.	1.0	11
60	Biological bases of human musicality. <i>Reviews in the Neurosciences</i> , 2017, 28, 235-245.	1.4	11
61	Information content of dendritic spines after motor learning. <i>Behavioural Brain Research</i> , 2018, 336, 256-260.	1.2	11
62	Effects of Mecp2 loss of function in embryonic cortical neurons: a bioinformatics strategy to sort out non-neuronal cells variability from transcriptome profiling. <i>BMC Bioinformatics</i> , 2016, 17, 14.	1.2	10
63	Cross Talk at the Cytoskeleton-Plasma Membrane Interface: Impact on Neuronal Morphology and Functions. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9133.	1.8	10
64	Music affects functional brain connectivity and is effective in the treatment of neurological disorders. <i>Reviews in the Neurosciences</i> , 2022, 33, 789-801.	1.4	10
65	Differential Regulation of Transcripts for Dystrophin Isoforms, Dystroglycan, and $\alpha$ 3AChR Subunit in Mouse Sympathetic Ganglia Following Postganglionic Nerve Crush. <i>Neurobiology of Disease</i> , 2001, 8, 513-524.	2.1	9
66	Behavioral, Anti-Inflammatory, and Neuroprotective Effects of a Novel FPR2 Agonist in Two Mouse Models of Autism. <i>Pharmaceuticals</i> , 2022, 15, 161.	1.7	8
67	Quantifying barcodes of dendritic spines using entropy-based metrics. <i>Scientific Reports</i> , 2015, 5, 14622.	1.6	7
68	Ribosomal RNAs Synthesized by Isolated Squid Nerves and Ganglia Differ from Native Ribosomal RNAs. <i>Journal of Neurochemistry</i> , 2008, 72, 910-918.	2.1	5
69	The molecular code involved in midbrain dopaminergic neuron development and maintenance. <i>Rendiconti Lincei</i> , 2008, 19, 271-290.	1.0	4
70	Pre-filtering improves reliability of Affymetrix GeneChips results when used to analyze gene expression in complex tissues. <i>Molecular and Cellular Probes</i> , 2008, 22, 115-121.	0.9	4
71	Expression of Cholinergic Markers and Characterization of Splice Variants during Ontogenesis of Rat Dorsal Root Ganglia Neurons. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5499.	1.8	3
72	In Vitro and In Silico Analysis of the Residence Time of Serotonin 5-HT <sub>7</sub> Receptor Ligands with Arylpiperazine Structure: A Structure-Kinetics Relationship Study. <i>ACS Chemical Neuroscience</i> , 2022, 13, 497-509.	1.7	3

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73	Lmx1a-Dependent Activation of miR-204/211 Controls the Timing of Nurr1-Mediated Dopaminergic Differentiation. International Journal of Molecular Sciences, 2022, 23, 6961.	1.8	3
74	Dystrophin localization and gene expression in the developing nervous system of the chick. , 1998, 51, 109.		2
75	Editorial: Further Understanding of Serotonin 7 Receptors' Neuro-psycho-pharmacology. Frontiers in Behavioral Neuroscience, 2015, 9, 307.	1.0	1
76	Modulation of nurr1 gene expression in mesencephalic dopaminergic neurones. Journal of Neurochemistry, 2004, 90, 256-256.	2.1	0
77	Neuronal avalanches and brain plasticity. AIP Conference Proceedings, 2007, , .	0.3	0
78	Target Striatal Cells Regulate Development of Midbrain Dopaminergic Neurones. , 1996, , 95-107.		0