

# Maurizio Giustetto

## List of Publications by Year in descending order

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53  
papers

7,958  
citations

109321  
35  
h-index

175258  
52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

11237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synaptic Pruning by Microglia Is Necessary for Normal Brain Development. <i>Science</i> , 2011, 333, 1456-1458.	12.6	3,138
2	A Transient, Neuron-Wide Form of CREB-Mediated Long-Term Facilitation Can Be Stabilized at Specific Synapses by Local Protein Synthesis. <i>Cell</i> , 1999, 99, 221-237.	28.9	471
3	Integration of Long-Term-Memory-Related Synaptic Plasticity Involves Bidirectional Regulation of Gene Expression and Chromatin Structure. <i>Cell</i> , 2002, 111, 483-493.	28.9	466
4	A Neuronal Isoform of CPEB Regulates Local Protein Synthesis and Stabilizes Synapse-Specific Long-Term Facilitation in Aplysia. <i>Cell</i> , 2003, 115, 893-904.	28.9	390
5	Is Heterosynaptic modulation essential for stabilizing hebbian plasiticity and memory. <i>Nature Reviews Neuroscience</i> , 2000, 1, 11-20.	10.2	369
6	Reduced AKT/mTOR signaling and protein synthesis dysregulation in a Rett syndrome animal model. <i>Human Molecular Genetics</i> , 2011, 20, 1182-1196.	2.9	202
7	Learning, AMPA receptor mobility and synaptic plasticity depend on n-cofilin-mediated actin dynamics. <i>EMBO Journal</i> , 2010, 29, 1889-1902.	7.8	195
8	Early Environmental Enrichment Moderates the Behavioral and Synaptic Phenotype of MeCP2 Null Mice. <i>Biological Psychiatry</i> , 2010, 67, 657-665.	1.3	189
9	Preclinical research in Rett syndrome: setting the foundation for translational success. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 733-745.	2.4	183
10	Mapping Pathological Phenotypes in a Mouse Model of CDKL5 Disorder. <i>PLoS ONE</i> , 2014, 9, e91613.	2.5	145
11	Pharmacological enhancement of mGlu5 receptors rescues behavioral deficits in SHANK3 knock-out mice. <i>Molecular Psychiatry</i> , 2017, 22, 689-702.	7.9	134
12	Profilin2 contributes to synaptic vesicle exocytosis, neuronal excitability, and novelty-seeking behavior. <i>EMBO Journal</i> , 2007, 26, 2991-3002.	7.8	122
13	A Postsynaptic Signaling Pathway that May Account for the Cognitive Defect Due to IL1RAPL1 Mutation. <i>Current Biology</i> , 2010, 20, 103-115.	3.9	106
14	Dendritic Spine Instability in a Mouse Model of CDKL5 Disorder Is Rescued by Insulin-like Growth Factor 1. <i>Biological Psychiatry</i> , 2016, 80, 302-311.	1.3	106
15	Ras-Guanine Nucleotide-Releasing Factor 1 (Ras-GRF1) Controls Activation of Extracellular Signal-Regulated Kinase (ERK) Signaling in the Striatum and Long-Term Behavioral Responses to Cocaine. <i>Biological Psychiatry</i> , 2009, 66, 758-768.	1.3	96
16	Endocytosis of synaptic ADAM10 in neuronal plasticity and Alzheimer's disease. <i>Journal of Clinical Investigation</i> , 2013, 123, 2523-2538.	8.2	96
17	CBP is required for environmental enrichment-induced neurogenesis and cognitive enhancement. <i>EMBO Journal</i> , 2011, 30, 4287-4298.	7.8	89
18	Presynaptic colocalization of carnosine and glutamate in olfactory neurones. <i>NeuroReport</i> , 1993, 5, 7-10.	1.2	80

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19	Axonal transport of eukaryotic translation elongation factor 1 $\alpha$ mRNA couples transcription in the nucleus to long-term facilitation at the synapse. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13680-13685.	7.1	78
20	The short-time structural plasticity of dendritic spines is altered in a model of Rett syndrome. Scientific Reports, 2011, 1, 45.	3.3	75
21	Localization of the clustering protein gephyrin at GABAergic synapses in the main olfactory bulb of the rat. , 1998, 395, 231-244.		74
22	Blocking ADAM10 synaptic trafficking generates a model of sporadic Alzheimer's disease. Brain, 2010, 133, 3323-3335.	7.6	71
23	Enhancement of Memory-Related Long-Term Facilitation by ApAF, a Novel Transcription Factor that Acts Downstream from Both CREB1 and CREB2. Cell, 2000, 103, 595-608.	28.9	64
24	Role of ERK signaling in activity-dependent modifications of histone proteins. Neuropharmacology, 2014, 80, 34-44.	4.1	62
25	Lack of Cdkl5 Disrupts the Organization of Excitatory and Inhibitory Synapses and Parvalbumin Interneurons in the Primary Visual Cortex. Frontiers in Cellular Neuroscience, 2016, 10, 261.	3.7	59
26	Synaptic Vesicle Docking: Sphingosine Regulates Syntaxin1 Interaction with Munc18. PLoS ONE, 2009, 4, e5310.	2.5	56
27	ERK activation in axonal varicosities modulates presynaptic plasticity in the CA3 region of the hippocampus through synapsin I. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9872-9877.	7.1	55
28	Pre- and postnatal exposure to glyphosate-based herbicide causes behavioral and cognitive impairments in adult mice: evidence of cortical and hippocampal dysfunction. Archives of Toxicology, 2020, 94, 1703-1723.	4.2	55
29	p140Cap Regulates Memory and Synaptic Plasticity through Src-Mediated and Citron-N-Mediated Actin Reorganization. Journal of Neuroscience, 2014, 34, 1542-1553.	3.6	54
30	A novel function for serotonin-mediated short-term facilitation in Aplysia: Conversion of a transient, cell-wide homosynaptic Hebbian plasticity into a persistent, protein synthesis-independent synapse-specific enhancement. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11581-11586.	7.1	52
31	Visual Stimulation Activates ERK in Synaptic and Somatic Compartments of Rat Cortical Neurons with Parallel Kinetics. PLoS ONE, 2007, 2, e604.	2.5	47
32	Synaptic determinants of Rett syndrome. Frontiers in Synaptic Neuroscience, 2010, 2, 28.	2.5	47
33	A rationally designed NRP1-independent superagonist SEMA3A mutant is an effective anticancer agent. Science Translational Medicine, 2018, 10, .	12.4	46
34	Developmental abnormalities of cortical interneurons precede symptoms onset in a mouse model of Rett syndrome. Journal of Neurochemistry, 2014, 131, 115-127.	3.9	44
35	Pharmacological reversion of sphingomyelinase-induced dendritic spine anomalies in a Niemann Pick disease type A mouse model. EMBO Molecular Medicine, 2014, 6, 398-413.	6.9	42
36	Hippocampal CA1 Pyramidal Neurons of Mecp2 Mutant Mice Show a Dendritic Spine Phenotype Only in the Presymptomatic Stage. Neural Plasticity, 2012, 2012, 1-9.	2.2	37

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37	Glutamate receptors in the olfactory bulb synaptic circuitry: heterogeneity and synaptic localization of N-methyl- d -aspartate receptor subunit 1 and Î±-amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor subunit 1. <i>Neuroscience</i> , 1996, 76, 787-798.	2.3	36
38	Morphine withdrawal produces ERK-dependent and ERK-independent epigenetic marks in neurons of the nucleus accumbens and lateral septum. <i>Neuropharmacology</i> , 2013, 70, 168-179.	4.1	36
39	Loss of <i>Mecp2</i> Causes Atypical Synaptic and Molecular Plasticity of Parvalbumin-Expressing Interneurons Reflecting Rett Syndromeâ€Like Sensorimotor Defects. <i>ENeuro</i> , 2018, 5, ENEURO.0086-18.2018.	1.9	36
40	Immunocytochemical localization of glutamate and Î³-aminobutyric acid in the accessory olfactory bulb of the rat. , 1999, 408, 61-72.		33
41	Neuronal JNK pathway activation by IL-1 is mediated through IL1RAPL1, a protein required for development of cognitive functions. <i>Communicative and Integrative Biology</i> , 2010, 3, 245-247.	1.4	32
42	Fasudil treatment in adult reverses behavioural changes and brain ventricular enlargement in Oligophrenin-1 mouse model of intellectual disability. <i>Human Molecular Genetics</i> , 2016, 25, 2314-2323.	2.9	32
43	Organization of GABAergic Synaptic Circuits in the Rat Ventral Tegmental Area. <i>PLoS ONE</i> , 2012, 7, e46250.	2.5	25
44	Amyloid Beta42 oligomers upâ€regulate the excitatory synapses by potentiating presynaptic release while impairing postsynaptic NMDA receptors. <i>Journal of Physiology</i> , 2020, 598, 2183-2197.	2.9	20
45	Structural Bases of Atypical Whisker Responses in a Mouse Model of CDKL5 Deficiency Disorder. <i>Neuroscience</i> , 2020, 445, 130-143.	2.3	14
46	p140Cap Regulates GABAergic Synaptogenesis and Development of Hippocampal Inhibitory Circuits. <i>Cerebral Cortex</i> , 2019, 29, 91-105.	2.9	13
47	Postsynaptic Colocalization of Gephyrin and GABAA Receptors. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 693-696.	3.8	12
48	Effects of Forced Swimming Stress on ERK and Histone H3 Phosphorylation in Limbic Areas of Roman High- and Low-Avoidance Rats. <i>PLoS ONE</i> , 2017, 12, e0170093.	2.5	12
49	In vivo magnetic resonance spectroscopy in the brain of <i>Cdkl5</i> null mice reveals a metabolic profile indicative of mitochondrial dysfunctions. <i>Journal of Neurochemistry</i> , 2021, 157, 1253-1269.	3.9	10
50	A GABAB receptor antagonist rescues functional and structural impairments in the perirhinal cortex of a mouse model of CDKL5 deficiency disorder. <i>Neurobiology of Disease</i> , 2021, 153, 105304.	4.4	9
51	Anxiety and Gene Expression Enhancement in Mice Exposed to Glyphosate-Based Herbicide. <i>Toxics</i> , 2022, 10, 226.	3.7	7
52	JNK signaling provides a novel therapeutic target for Rett syndrome. <i>BMC Biology</i> , 2021, 19, 256.	3.8	6
53	Homer1b/c clustering is impaired in Phelan-McDermid Syndrome iPSCs derived neurons. <i>Molecular Psychiatry</i> , 2017, 22, 637-637.	7.9	4