Mauro Costa-Mattioli

List of Publications by Year
in descending order

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56	8,248	94269 37	155451 55
papers	citations	h-index	g-index

61	61	61	11028
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microbial Reconstitution Reverses Maternal Diet-Induced Social and Synaptic Deficits in Offspring. Cell, 2016, 165, 1762-1775.	13.5	840
2	Translational Control of Long-Lasting Synaptic Plasticity and Memory. Neuron, 2009, 61, 10-26.	3.8	817
3	The integrated stress response: From mechanism to disease. Science, 2020, 368, .	6.0	715
4	The Fragile X Syndrome Protein Represses Activity-Dependent Translation through CYFIP1, a New 4E-BP. Cell, 2008, 134, 1042-1054.	13.5	542
5	Mechanisms Underlying Microbial-Mediated Changes in Social Behavior in Mouse Models of Autism Spectrum Disorder. Neuron, 2019, 101, 246-259.e6.	3.8	477
6	eIF2Î± Phosphorylation Bidirectionally Regulates the Switch from Short- to Long-Term Synaptic Plasticity and Memory. Cell, 2007, 129, 195-206.	13.5	437
7	Translational control of hippocampal synaptic plasticity and memory by the eIF2Î± kinase GCN2. Nature, 2005, 436, 1166-1170.	13.7	344
8	mTOR complexes in neurodevelopmental and neuropsychiatric disorders. Nature Neuroscience, 2013, 16, 1537-1543.	7.1	316
9	Translational Control in Synaptic Plasticity and Cognitive Dysfunction. Annual Review of Neuroscience, 2014, 37, 17-38.	5.0	285
10	mTORC2 controls actin polymerization required for consolidation of long-term memory. Nature Neuroscience, 2013, 16, 441-448.	7.1	276
11	Translational control of the innate immune response through IRF-7. Nature, 2008, 452, 323-328.	13.7	275
12	Selective pharmacogenetic inhibition of mammalian target of Rapamycin complex I (mTORC1) blocks long-term synaptic plasticity and memory storage. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3791-3796.	3.3	194
13	Suppression of PKR Promotes Network Excitability and Enhanced Cognition by Interferon-Î³-Mediated Disinhibition. Cell, 2011, 147, 1384-1396.	13.5	182
14	Inhibition of the integrated stress response reverses cognitive deficits after traumatic brain injury. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6420-E6426.	3.3	177
15	Translational control of mGluR-dependent long-term depression and object-place learning by eIF2Î±. Nature Neuroscience, 2014, 17, 1073-1082.	7.1	159
16	Dysregulation of Mammalian Target of Rapamycin Signaling in Mouse Models of Autism. Journal of Neuroscience, 2015, 35, 13836-13842.	1.7	153
17	Genetic variability of hepatitis A virus. Journal of General Virology, 2003, 84, 3191-3201.	1.3	141
18	La Autoantigen Is Necessary for Optimal Function of the Poliovirus and Hepatitis C Virus Internal Ribosome Entry Site In Vivo and In Vitro. Molecular and Cellular Biology, 2004, 24, 6861-6870.	1.1	137

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19	Truncation of Ube3a-ATS Unsilences Paternal Ube3a and Ameliorates Behavioral Defects in the Angelman Syndrome Mouse Model. PLoS Genetics, 2013, 9, e1004039.	1.5	124
20	Activation of the ISR mediates the behavioral and neurophysiological abnormalities in Down syndrome. Science, 2019, 366, 843-849.	6.0	117
21	Translational control of the activation of transcription factor NF-Î°B and production of type I interferon by phosphorylation of the translation factor eIF4E. Nature Immunology, 2012, 13, 543-550.	7.0	114
22	Dissecting the contribution of host genetics and the microbiome in complex behaviors. Cell, 2021, 184, 1740-1756.e16.	13.5	109
23	Postnatal Deamidation of 4E-BP2 in Brain Enhances Its Association with Raptor and Alters Kinetics of Excitatory Synaptic Transmission. Molecular Cell, 2010, 37, 797-808.	4.5	96
24	Translational Control in the Brain in Health and Disease. Cold Spring Harbor Perspectives in Biology, 2019, 11, a032912.	2.3	85
25	A mechanism of translational repression by competition of Paip2 with eIF4G for poly(A) binding protein (PABP) binding. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9494-9499.	3.3	82
26	ER Proteostasis Control of Neuronal Physiology and Synaptic Function. Trends in Neurosciences, 2018, 41, 610-624.	4.2	80
27	Therapeutic inhibition of mTORC2 rescues the behavioral and neurophysiological abnormalities associated with Pten-deficiency. Nature Medicine, 2019, 25, 1684-1690.	15.2	78
28	Microglia and amyloid precursor protein coordinate control of transient Candida cerebritis with memory deficits. Nature Communications, 2019, 10, 58.	5.8	78
29	eIF2Î± controls memory consolidation via excitatory and somatostatin neurons. Nature, 2020, 586, 412-416.	13.7	74
30	Translational Control Mechanisms in Long-lasting Synaptic Plasticity and Memory. Journal of Biological Chemistry, 2010, 285, 31913-31917.	1.6	60
31	mTORC2, but not mTORC1, is required for hippocampal mGluR-LTD and associated behaviors. Nature Neuroscience, 2018, 21, 799-802.	7.1	56
32	Rett syndrome like phenotypes in the R255X Mecp2 mutant mouse are rescued by MECP2 transgene. Human Molecular Genetics, 2015, 24, 2662-2672.	1.4	54
33	RhoA-ROCK Inhibition Reverses Synaptic Remodeling and Motor and Cognitive Deficits Caused by Traumatic Brain Injury. Scientific Reports, 2017, 7, 10689.	1.6	53
34	Chapter 5 Translational control of gene expression: A molecular switch for memory storage. Progress in Brain Research, 2008, 169, 81-95.	0.9	44
35	Translational control by eIF2Î± phosphorylation regulates vulnerability to the synaptic and behavioral effects of cocaine. ELife, 2016, 5, .	2.8	44
36	Inhibition of Upf2-Dependent Nonsense-Mediated Decay Leads to Behavioral and Neurophysiological Abnormalities by Activating the Immune Response. Neuron, 2019, 104, 665-679.e8.	3.8	43

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37	RAPping production of type I interferon in pDCs through mTOR. Nature Immunology, 2008, 9, 1097-1099.	7.0	38
38	Chapter 8 Translational Regulatory Mechanisms in Synaptic Plasticity and Memory Storage. Progress in Molecular Biology and Translational Science, 2009, 90, 293-311.	0.9	38
39	Bayesian coalescent inference of hepatitis A virus populations: evolutionary rates and patterns. Journal of General Virology, 2007, 88, 3039-3042.	1.3	34
40	Off-Target Effects of Clozapine-N-Oxide on the Chemosensory Reflex Are Masked by High Stress Levels. Frontiers in Physiology, 2019, 10, 521.	1.3	28
41	Translational control of auditory imprinting and structural plasticity by eIF2Î±. ELife, 2016, 5, .	2.8	28
42	TORC2: a novel target for treating age-associated memory impairment. Scientific Reports, 2015, 5, 15193.	1.6	27
43	Cholinergic neurons constitutively engage the ISR for dopamine modulation and skill learning in mice. Science, 2021, 372, .	6.0	26
44	eIF2Î±-mediated translational control regulates the persistence of cocaine-induced LTP in midbrain dopamine neurons. ELife, 2016, 5, .	2.8	26
45	Gut Bacteria Seize Control of the Brain to Prevent Epilepsy. Cell Host and Microbe, 2018, 24, 3-5.	5.1	25
46	Analysis of sequential hepatitis A virus strains reveals coexistence of distinct viral subpopulations. Journal of General Virology, 2006, 87, 115-118.	1.3	21
47	Translational control of nicotine-evoked synaptic potentiation in mice and neuronal responses in human smokers by eIF2Î±. ELife, 2016, 5, .	2.8	19
48	Regulation of filial imprinting and structural plasticity by mTORC1 in newborn chickens. Scientific Reports, 2018, 8, 8044.	1.6	18
49	Translational Control of Long-Term Synaptic Plasticity and Memory Storage by eIF2Î±. Critical Reviews in Neurobiology, 2006, 18, 187-195.	3.3	17
50	Repeated Exposure to D-Amphetamine Decreases Global Protein Synthesis and Regulates the Translation of a Subset of mRNAs in the Striatum. Frontiers in Molecular Neuroscience, 2016, 9, 165.	1.4	11
51	Inhibition of Elevated Ras-MAPK Signaling Normalizes Enhanced Motor Learning and Excessive Clustered Dendritic Spine Stabilization in the MECP2-Duplication Syndrome Mouse Model of Autism. ENeuro, 2021, 8, ENEURO.0056-21.2021.	0.9	11
52	A CRISPR toolbox for generating intersectional genetic mouse models for functional, molecular, and anatomical circuit mapping. BMC Biology, 2022, 20, 28.	1.7	8
53	Positive Allosteric Modulation of mGlu1 Reverses Cocaine-Induced Behavioral and Synaptic Plasticity Through the Integrated Stress Response and Oligophrenin-1. Biological Psychiatry, 2022, 92, 871-879.	0.7	8
54	Switching Memories ON and OFF. Science, 2008, 322, 874-875.	6.0	3

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55	ERKquake in Noonan syndrome: one step closer to personalized medicine. Nature Neuroscience, 2014, 17, 1627-1629.	7.1	3
56	Translational Control Mechanisms in Synaptic Plasticity and Memory â˜†. , 2017, , 311-328.		0