

Mauro Costa-Mattioli

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

8,248
citations

94269

37
h-index

155451

55
g-index

61
all docs

61
docs citations

61
times ranked

11028
citing authors

#	ARTICLE	IF	CITATIONS
1	A CRISPR toolbox for generating intersectional genetic mouse models for functional, molecular, and anatomical circuit mapping. <i>BMC Biology</i> , 2022, 20, 28.	1.7	8
2	Positive Allosteric Modulation of mGlu1 Reverses Cocaine-Induced Behavioral and Synaptic Plasticity Through the Integrated Stress Response and Oligophrenin-1. <i>Biological Psychiatry</i> , 2022, 92, 871-879.	0.7	8
3	Dissecting the contribution of host genetics and the microbiome in complex behaviors. <i>Cell</i> , 2021, 184, 1740-1756.e16.	13.5	109
4	Cholinergic neurons constitutively engage the ISR for dopamine modulation and skill learning in mice. <i>Science</i> , 2021, 372, .	6.0	26
5	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. <i>ENeuro</i> , 2021, 8, ENEURO.0056-21.2021.	0.9	11
6	eIF2 \pm controls memory consolidation via excitatory and somatostatin neurons. <i>Nature</i> , 2020, 586, 412-416.	13.7	74
7	The integrated stress response: From mechanism to disease. <i>Science</i> , 2020, 368, .	6.0	715
8	Translational Control in the Brain in Health and Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019, 11, a032912.	2.3	85
9	Therapeutic inhibition of mTORC2 rescues the behavioral and neurophysiological abnormalities associated with Pten-deficiency. <i>Nature Medicine</i> , 2019, 25, 1684-1690.	15.2	78
10	Inhibition of Upf2-Dependent Nonsense-Mediated Decay Leads to Behavioral and Neurophysiological Abnormalities by Activating the Immune Response. <i>Neuron</i> , 2019, 104, 665-679.e8.	3.8	43
11	Off-Target Effects of Clozapine-N-Oxide on the Chemosensory Reflex Are Masked by High Stress Levels. <i>Frontiers in Physiology</i> , 2019, 10, 521.	1.3	28
12	Activation of the ISR mediates the behavioral and neurophysiological abnormalities in Down syndrome. <i>Science</i> , 2019, 366, 843-849.	6.0	117
13	Microglia and amyloid precursor protein coordinate control of transient <i>Candida cerebritis</i> with memory deficits. <i>Nature Communications</i> , 2019, 10, 58.	5.8	78
14	Mechanisms Underlying Microbial-Mediated Changes in Social Behavior in Mouse Models of Autism Spectrum Disorder. <i>Neuron</i> , 2019, 101, 246-259.e6.	3.8	477
15	mTORC2, but not mTORC1, is required for hippocampal mGluR-LTD and associated behaviors. <i>Nature Neuroscience</i> , 2018, 21, 799-802.	7.1	56
16	Regulation of filial imprinting and structural plasticity by mTORC1 in newborn chickens. <i>Scientific Reports</i> , 2018, 8, 8044.	1.6	18
17	ER Proteostasis Control of Neuronal Physiology and Synaptic Function. <i>Trends in Neurosciences</i> , 2018, 41, 610-624.	4.2	80
18	Gut Bacteria Seize Control of the Brain to Prevent Epilepsy. <i>Cell Host and Microbe</i> , 2018, 24, 3-5.	5.1	25

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19	RhoA-ROCK Inhibition Reverses Synaptic Remodeling and Motor and Cognitive Deficits Caused by Traumatic Brain Injury. <i>Scientific Reports</i> , 2017, 7, 10689.	1.6	53
20	Inhibition of the integrated stress response reverses cognitive deficits after traumatic brain injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6420-E6426.	3.3	177
21	Translational Control Mechanisms in Synaptic Plasticity and Memory $\hat{\pm}$. , 2017, , 311-328.		0
22	Microbial Reconstitution Reverses Maternal Diet-Induced Social and Synaptic Deficits in Offspring. <i>Cell</i> , 2016, 165, 1762-1775.	13.5	840
23	Repeated Exposure to D-Amphetamine Decreases Global Protein Synthesis and Regulates the Translation of a Subset of mRNAs in the Striatum. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 165.	1.4	11
24	Translational control by eIF2 $\hat{\pm}$ phosphorylation regulates vulnerability to the synaptic and behavioral effects of cocaine. <i>ELife</i> , 2016, 5, .	2.8	44
25	Translational control of nicotine-evoked synaptic potentiation in mice and neuronal responses in human smokers by eIF2 $\hat{\pm}$. <i>ELife</i> , 2016, 5, .	2.8	19
26	Translational control of auditory imprinting and structural plasticity by eIF2 $\hat{\pm}$. <i>ELife</i> , 2016, 5, .	2.8	28
27	eIF2 $\hat{\pm}$ -mediated translational control regulates the persistence of cocaine-induced LTP in midbrain dopamine neurons. <i>ELife</i> , 2016, 5, .	2.8	26
28	TORC2: a novel target for treating age-associated memory impairment. <i>Scientific Reports</i> , 2015, 5, 15193.	1.6	27
29	Rett syndrome like phenotypes in the R255X <i>Mecp2</i> mutant mouse are rescued by <i>MECP2</i> transgene. <i>Human Molecular Genetics</i> , 2015, 24, 2662-2672.	1.4	54
30	Dysregulation of Mammalian Target of Rapamycin Signaling in Mouse Models of Autism. <i>Journal of Neuroscience</i> , 2015, 35, 13836-13842.	1.7	153
31	ERKquake in Noonan syndrome: one step closer to personalized medicine. <i>Nature Neuroscience</i> , 2014, 17, 1627-1629.	7.1	3
32	Translational Control in Synaptic Plasticity and Cognitive Dysfunction. <i>Annual Review of Neuroscience</i> , 2014, 37, 17-38.	5.0	285
33	Translational control of mGluR-dependent long-term depression and object-place learning by eIF2 $\hat{\pm}$. <i>Nature Neuroscience</i> , 2014, 17, 1073-1082.	7.1	159
34	mTOR complexes in neurodevelopmental and neuropsychiatric disorders. <i>Nature Neuroscience</i> , 2013, 16, 1537-1543.	7.1	316
35	mTORC2 controls actin polymerization required for consolidation of long-term memory. <i>Nature Neuroscience</i> , 2013, 16, 441-448.	7.1	276
36	Truncation of <i>Ube3a</i> -ATS Unsilences Paternal <i>Ube3a</i> and Ameliorates Behavioral Defects in the Angelman Syndrome Mouse Model. <i>PLoS Genetics</i> , 2013, 9, e1004039.	1.5	124

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37	Translational control of the activation of transcription factor NF- κ B and production of type I interferon by phosphorylation of the translation factor eIF4E. <i>Nature Immunology</i> , 2012, 13, 543-550.	7.0	114
38	Suppression of PKR Promotes Network Excitability and Enhanced Cognition by Interferon- β -Mediated Disinhibition. <i>Cell</i> , 2011, 147, 1384-1396.	13.5	182
39	Selective pharmacogenetic inhibition of mammalian target of Rapamycin complex I (mTORC1) blocks long-term synaptic plasticity and memory storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3791-3796.	3.3	194
40	Translational Control Mechanisms in Long-lasting Synaptic Plasticity and Memory. <i>Journal of Biological Chemistry</i> , 2010, 285, 31913-31917.	1.6	60
41	Postnatal Deamidation of 4E-BP2 in Brain Enhances Its Association with Raptor and Alters Kinetics of Excitatory Synaptic Transmission. <i>Molecular Cell</i> , 2010, 37, 797-808.	4.5	96
42	Translational Control of Long-Lasting Synaptic Plasticity and Memory. <i>Neuron</i> , 2009, 61, 10-26.	3.8	817
43	Chapter 8 Translational Regulatory Mechanisms in Synaptic Plasticity and Memory Storage. <i>Progress in Molecular Biology and Translational Science</i> , 2009, 90, 293-311.	0.9	38
44	Translational control of the innate immune response through IRF-7. <i>Nature</i> , 2008, 452, 323-328.	13.7	275
45	RAPping production of type I interferon in pDCs through mTOR. <i>Nature Immunology</i> , 2008, 9, 1097-1099.	7.0	38
46	Chapter 5 Translational control of gene expression: A molecular switch for memory storage. <i>Progress in Brain Research</i> , 2008, 169, 81-95.	0.9	44
47	The Fragile X Syndrome Protein Represses Activity-Dependent Translation through CYFIP1, a New 4E-BP. <i>Cell</i> , 2008, 134, 1042-1054.	13.5	542
48	Switching Memories ON and OFF. <i>Science</i> , 2008, 322, 874-875.	6.0	3
49	Bayesian coalescent inference of hepatitis A virus populations: evolutionary rates and patterns. <i>Journal of General Virology</i> , 2007, 88, 3039-3042.	1.3	34
50	eIF2 γ Phosphorylation Bidirectionally Regulates the Switch from Short- to Long-Term Synaptic Plasticity and Memory. <i>Cell</i> , 2007, 129, 195-206.	13.5	437
51	A mechanism of translational repression by competition of Paip2 with eIF4G for poly(A) binding protein (PABP) binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9494-9499.	3.3	82
52	Analysis of sequential hepatitis A virus strains reveals coexistence of distinct viral subpopulations. <i>Journal of General Virology</i> , 2006, 87, 115-118.	1.3	21
53	Translational Control of Long-Term Synaptic Plasticity and Memory Storage by eIF2 γ . <i>Critical Reviews in Neurobiology</i> , 2006, 18, 187-195.	3.3	17
54	Translational control of hippocampal synaptic plasticity and memory by the eIF2 γ kinase GCN2. <i>Nature</i> , 2005, 436, 1166-1170.	13.7	344

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55	La Autoantigen Is Necessary for Optimal Function of the Poliovirus and Hepatitis C Virus Internal Ribosome Entry Site In Vivo and In Vitro. <i>Molecular and Cellular Biology</i> , 2004, 24, 6861-6870.	1.1	137
56	Genetic variability of hepatitis A virus. <i>Journal of General Virology</i> , 2003, 84, 3191-3201.	1.3	141