

# Lisa Marie Monteggia

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

16,504  
citations

101543

36  
h-index

98798

67  
g-index

84  
all docs

84  
docs citations

84  
times ranked

16151  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Neurotrophic Model for Stress-Related Mood Disorders. <i>Biological Psychiatry</i> , 2006, 59, 1116-1127.	1.3	2,873
2	Neurobiology of Depression. <i>Neuron</i> , 2002, 34, 13-25.	8.1	2,688
3	Essential Role of BDNF in the Mesolimbic Dopamine Pathway in Social Defeat Stress. <i>Science</i> , 2006, 311, 864-868.	12.6	1,869
4	NMDA receptor blockade at rest triggers rapid behavioural antidepressant responses. <i>Nature</i> , 2011, 475, 91-95.	27.8	1,584
5	Brain-Derived Neurotrophic Factor and Neuropsychiatric Disorders. <i>Pharmacological Reviews</i> , 2012, 64, 238-258.	16.0	1,109
6	BDNF "a key transducer of antidepressant effects. <i>Neuropharmacology</i> , 2016, 102, 72-79.	4.1	701
7	Essential role of brain-derived neurotrophic factor in adult hippocampal function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10827-10832.	7.1	597
8	Brain-Derived Neurotrophic Factor Conditional Knockouts Show Gender Differences in Depression-Related Behaviors. <i>Biological Psychiatry</i> , 2007, 61, 187-197.	1.3	456
9	Selective Loss of Brain-Derived Neurotrophic Factor in the Dentate Gyrus Attenuates Antidepressant Efficacy. <i>Biological Psychiatry</i> , 2008, 63, 642-649.	1.3	332
10	MEF2C, a transcription factor that facilitates learning and memory by negative regulation of synapse numbers and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9391-9396.	7.1	241
11	Activity-Dependent Suppression of Miniature Neurotransmission through the Regulation of DNA Methylation. <i>Journal of Neuroscience</i> , 2008, 28, 395-406.	3.6	239
12	Postnatal Loss of Methyl-CpG Binding Protein 2 in the Forebrain is Sufficient to Mediate Behavioral Aspects of Rett Syndrome in Mice. <i>Biological Psychiatry</i> , 2006, 59, 468-476.	1.3	227
13	Acute Suppression of Spontaneous Neurotransmission Drives Synaptic Potentiation. <i>Journal of Neuroscience</i> , 2013, 33, 6990-7002.	3.6	225
14	Synaptic Mechanisms Underlying Rapid Antidepressant Action of Ketamine. <i>American Journal of Psychiatry</i> , 2012, 169, 1150-1156.	7.2	220
15	MeCP2-Dependent Transcriptional Repression Regulates Excitatory Neurotransmission. <i>Current Biology</i> , 2006, 16, 710-716.	3.9	198
16	Mechanisms underlying differential effectiveness of memantine and ketamine in rapid antidepressant responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8649-8654.	7.1	186
17	Brain-Derived Neurotrophic Factor Signaling in Depression and Antidepressant Action. <i>Biological Psychiatry</i> , 2021, 90, 128-136.	1.3	186
18	The Role of Eukaryotic Elongation Factor 2 Kinase in Rapid Antidepressant Action of Ketamine. <i>Biological Psychiatry</i> , 2013, 73, 1199-1203.	1.3	182

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19	BDNF signaling in context: From synaptic regulation to psychiatric disorders. <i>Cell</i> , 2022, 185, 62-76.	28.9	160
20	Histone Deacetylases 1 and 2 Form a Developmental Switch That Controls Excitatory Synapse Maturation and Function. <i>Journal of Neuroscience</i> , 2009, 29, 8288-8297.	3.6	147
21	Effects of a ketamine metabolite on synaptic NMDAR function. <i>Nature</i> , 2017, 546, E1-E3.	27.8	145
22	Gender-Specific Impact of Brain-Derived Neurotrophic Factor Signaling on Stress-Induced Depression-Like Behavior. <i>Biological Psychiatry</i> , 2009, 66, 84-90.	1.3	140
23	MeCP2-Mediated Transcription Repression in the Basolateral Amygdala May Underlie Heightened Anxiety in a Mouse Model of Rett Syndrome. <i>Journal of Neuroscience</i> , 2009, 29, 4218-4227.	3.6	124
24	Antidepressant actions of ketamine: from molecular mechanisms to clinical practice. <i>Current Opinion in Neurobiology</i> , 2015, 30, 139-143.	4.2	123
25	Targeting Homeostatic Synaptic Plasticity for Treatment of Mood Disorders. <i>Neuron</i> , 2020, 106, 715-726.	8.1	107
26	Reelin Mobilizes a VAMP7-Dependent Synaptic Vesicle Pool and Selectively Augments Spontaneous Neurotransmission. <i>Neuron</i> , 2013, 80, 934-946.	8.1	106
27	How does ketamine elicit a rapid antidepressant response?. <i>Current Opinion in Pharmacology</i> , 2015, 20, 35-39.	3.5	96
28	The best way forward. <i>Nature</i> , 2014, 515, 200-201.	27.8	90
29	Selective role for DNMT3a in learning and memory. <i>Neurobiology of Learning and Memory</i> , 2014, 115, 30-37.	1.9	73
30	Use-Dependent AMPA Receptor Block Reveals Segregation of Spontaneous and Evoked Glutamatergic Neurotransmission. <i>Journal of Neuroscience</i> , 2011, 31, 5378-5382.	3.6	69
31	Genetic Dissection of Presynaptic and Postsynaptic BDNF-TrkB Signaling in Synaptic Efficacy of CA3-CA1 Synapses. <i>Cell Reports</i> , 2018, 24, 1550-1561.	6.4	68
32	Rett Syndrome and the Impact of MeCP2 Associated Transcriptional Mechanisms on Neurotransmission. <i>Biological Psychiatry</i> , 2009, 65, 204-210.	1.3	66
33	Role of DNA methylation and the DNA methyltransferases in learning and memory. <i>Dialogues in Clinical Neuroscience</i> , 2014, 16, 359-371.	3.7	66
34	Sustained effects of rapidly acting antidepressants require BDNF-dependent MeCP2 phosphorylation. <i>Nature Neuroscience</i> , 2021, 24, 1100-1109.	14.8	52
35	Molecular and functional analysis of hyperpolarization-activated pacemaker channels in the hippocampus after entorhinal cortex lesion. <i>FASEB Journal</i> , 2001, 15, 2689-2701.	0.5	49
36	Postnatal Loss of Mef2c Results in Dissociation of Effects on Synapse Number and Learning and Memory. <i>Biological Psychiatry</i> , 2016, 80, 140-148.	1.3	44

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37	Age dependence of the rapid antidepressant and synaptic effects of acute NMDA receptor blockade. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 94.	2.9	44
38	Chronic lithium treatment elicits its antimanic effects via BDNF-TrkB dependent synaptic downscaling. <i>ELife</i> , 2017, 6, .	6.0	42
39	Selective molecular impairment of spontaneous neurotransmission modulates synaptic efficacy. <i>Nature Communications</i> , 2017, 8, 14436.	12.8	39
40	A synaptic locus for TrkB signaling underlying ketamine rapid antidepressant action. <i>Cell Reports</i> , 2021, 36, 109513.	6.4	39
41	Meeting Report: Can We Make Animal Models of Human Mental Illness?. <i>Biological Psychiatry</i> , 2018, 84, 542-545.	1.3	38
42	A role for histone deacetylases in the cellular and behavioral mechanisms underlying learning and memory. <i>Learning and Memory</i> , 2014, 21, 564-568.	1.3	37
43	MeCP2 and histone deacetylases 1 and 2 in dorsal striatum collectively suppress repetitive behaviors. <i>Nature Neuroscience</i> , 2016, 19, 1506-1512.	14.8	36
44	TrkB Signaling in Dorsal Raphe Nucleus is Essential for Antidepressant Efficacy and Normal Aggression Behavior. <i>Neuropsychopharmacology</i> , 2017, 42, 886-894.	5.4	35
45	The role of eEF2 kinase in the rapid antidepressant actions of ketamine. <i>Advances in Pharmacology</i> , 2020, 89, 79-99.	2.0	35
46	Role of Aberrant Spontaneous Neurotransmission in SNAP25-Associated Encephalopathies. <i>Neuron</i> , 2021, 109, 59-72.e5.	8.1	31
47	Increasing doses of ketamine curtail antidepressant responses and suppress associated synaptic signaling pathways. <i>Behavioural Brain Research</i> , 2020, 380, 112378.	2.2	29
48	The Ketamine Metabolite 2R,6R-Hydroxynorketamine Blocks NMDA Receptors and Impacts Downstream Signaling Linked to Antidepressant Effects. <i>Neuropsychopharmacology</i> , 2018, 43, 221-222.	5.4	25
49	Analysis of pyramidal neuron morphology in an inducible knockout of brain-derived neurotrophic factor. <i>Biological Psychiatry</i> , 2005, 57, 932-934.	1.3	24
50	Decoding transcriptional repressor complexes in the adult central nervous system. <i>Neuropharmacology</i> , 2014, 80, 45-52.	4.1	23
51	Loss of Doc2-Dependent Spontaneous Neurotransmission Augments Glutamatergic Synaptic Strength. <i>Journal of Neuroscience</i> , 2017, 37, 6224-6230.	3.6	22
52	Spontaneous and evoked neurotransmission are partially segregated at inhibitory synapses. <i>ELife</i> , 2020, 9, .	6.0	22
53	Elucidating the Role of Brain-Derived Neurotrophic Factor in the Brain. <i>American Journal of Psychiatry</i> , 2007, 164, 1790-1790.	7.2	19
54	Convergence of distinct signaling pathways on synaptic scaling to trigger rapid antidepressant action. <i>Cell Reports</i> , 2021, 37, 109918.	6.4	18

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55	A subthreshold synaptic mechanism regulating BDNF expression and resting synaptic strength. <i>Cell Reports</i> , 2021, 36, 109467.	6.4	17
56	Scopolamine and Ketamine: Evidence of Convergence?. <i>Biological Psychiatry</i> , 2013, 74, 712-713.	1.3	15
57	VAMP4 Maintains a Ca <sup>2+</sup> -Sensitive Pool of Spontaneously Recycling Synaptic Vesicles. <i>Journal of Neuroscience</i> , 2020, 40, 5389-5401.	3.6	15
58	Behavioral Analysis of SNAP-25 and Synaptobrevin-2 Haploinsufficiency in Mice. <i>Neuroscience</i> , 2019, 420, 129-135.	2.3	13
59	A key requirement for synaptic Reelin signaling in ketamine-mediated behavioral and synaptic action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
60	D-cycloserine improves synaptic transmission in an animal model of Rett syndrome. <i>PLoS ONE</i> , 2017, 12, e0183026.	2.5	10
61	Inactivation of NMDA Receptors in the Ventral Tegmental Area during Cocaine Self-Administration Prevents GluA1 Upregulation but with Paradoxical Increases in Cocaine-Seeking Behavior. <i>Journal of Neuroscience</i> , 2018, 38, 575-585.	3.6	8
62	Probing the segregation of evoked and spontaneous neurotransmission via photobleaching and recovery of a fluorescent glutamate sensor. <i>ELife</i> , 2022, 11, .	6.0	6
63	Toward Better Animal Models for Molecular Psychiatry. <i>Biological Psychiatry</i> , 2016, 79, 2-3.	1.3	3
64	CRISPR/Cas9 system-mediated impairment of synaptobrevin/VAMP function in postmitotic hippocampal neurons. <i>Journal of Neuroscience Methods</i> , 2017, 278, 57-64.	2.5	3
65	Engineering MeCP2 to spy on its targets. <i>Nature Medicine</i> , 2017, 23, 1120-1122.	30.7	3
66	Constance E. Lieber, Theodore R. Stanley, and the Enduring Impact of Philanthropy on Psychiatry Research. <i>Biological Psychiatry</i> , 2016, 80, 84-86.	1.3	2
67	Optical analysis of AMPAR-mediated synaptic scaling in mouse hippocampus. <i>STAR Protocols</i> , 2022, 3, 101443.	1.2	1
68	MeCP2 loss of function dysregulates microRNAs regionally and disrupts excitatory/inhibitory synaptic transmission balance. <i>Hippocampus</i> , 0, , .	1.9	1