

# Keri Martinowich

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

9,101  
citations

109321

35  
h-index

128289

60  
g-index

76  
all docs

76  
docs citations

76  
times ranked

12134  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA Methylation-Related Chromatin Remodeling in Activity-Dependent <i>Bdnf</i> Gene Regulation. <i>Science</i> , 2003, 302, 890-893.	12.6	1,315
2	Direct Current Stimulation Promotes BDNF-Dependent Synaptic Plasticity: Potential Implications for Motor Learning. <i>Neuron</i> , 2010, 66, 198-204.	8.1	1,177
3	New insights into BDNF function in depression and anxiety. <i>Nature Neuroscience</i> , 2007, 10, 1089-1093.	14.8	1,016
4	Interaction between BDNF and Serotonin: Role in Mood Disorders. <i>Neuropsychopharmacology</i> , 2008, 33, 73-83.	5.4	627
5	Transcriptome-scale spatial gene expression in the human dorsolateral prefrontal cortex. <i>Nature Neuroscience</i> , 2021, 24, 425-436.	14.8	418
6	DNA methylation controls the timing of astroglialogenesis through regulation of JAK-STAT signaling. <i>Development (Cambridge)</i> , 2005, 132, 3345-3356.	2.5	371
7	A positive autoregulatory loop of Jak-STAT signaling controls the onset of astroglialogenesis. <i>Nature Neuroscience</i> , 2005, 8, 616-625.	14.8	350
8	Molecular evidence for BDNF- and GABA-related dysfunctions in the amygdala of female subjects with major depression. <i>Molecular Psychiatry</i> , 2012, 17, 1130-1142.	7.9	311
9	Environmental enrichment requires adult neurogenesis to facilitate the recovery from psychosocial stress. <i>Molecular Psychiatry</i> , 2010, 15, 1152-1163.	7.9	270
10	Brain-Derived Neurotrophic Factor Signaling and Subgenual Anterior Cingulate Cortex Dysfunction in Major Depressive Disorder. <i>American Journal of Psychiatry</i> , 2012, 169, 1194-1202.	7.2	221
11	Phosphorylation of MeCP2 at Serine 80 regulates its chromatin association and neurological function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4882-4887.	7.1	200
12	Coupling of cell migration with neurogenesis by proneural bHLH factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1319-1324.	7.1	195
13	Critical role of promoter IV-driven BDNF transcription in GABAergic transmission and synaptic plasticity in the prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5942-5947.	7.1	183
14	Notch signaling promotes astroglialogenesis via direct CSL-mediated glial gene activation. <i>Journal of Neuroscience Research</i> , 2002, 69, 848-860.	2.9	174
15	Suppression of adult neurogenesis leads to an increased hypothalamo-pituitary-adrenal axis response. <i>NeuroReport</i> , 2009, 20, 553-557.	1.2	147
16	Glucocorticoids Orchestrate Divergent Effects on Mood through Adult Neurogenesis. <i>Journal of Neuroscience</i> , 2013, 33, 2961-2972.	3.6	144
17	Role of activity-dependent BDNF expression in hippocampal prefrontal cortical regulation of behavioral perseverance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15103-15108.	7.1	116
18	Functional Role of BDNF Production from Unique Promoters in Aggression and Serotonin Signaling. <i>Neuropsychopharmacology</i> , 2016, 41, 1943-1955.	5.4	108

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19	TrkB as a Potential Synaptic and Behavioral Tag. <i>Journal of Neuroscience</i> , 2011, 31, 11762-11771.	3.6	106
20	Bipolar disorder: from genes to behavior pathways. <i>Journal of Clinical Investigation</i> , 2009, 119, 726-736.	8.2	97
21	Dissecting transcriptomic signatures of neuronal differentiation and maturation using iPSCs. <i>Nature Communications</i> , 2020, 11, 462.	12.8	96
22	Single-nucleus transcriptome analysis reveals cell-type-specific molecular signatures across reward circuitry in the human brain. <i>Neuron</i> , 2021, 109, 3088-3103.e5.	8.1	95
23	Mood-stabilizing drugs: mechanisms of action. <i>Trends in Neurosciences</i> , 2012, 35, 36-46.	8.6	94
24	Cell Biology of BDNF and its Relevance to Schizophrenia. <i>Novartis Foundation Symposium</i> , 2008, 289, 119-135.	1.1	84
25	Antidepressant-like Effects of Electroconvulsive Seizures Require Adult Neurogenesis in a Neuroendocrine Model of Depression. <i>Brain Stimulation</i> , 2015, 8, 862-867.	1.6	70
26	Profiling gene expression in the human dentate gyrus granule cell layer reveals insights into schizophrenia and its genetic risk. <i>Nature Neuroscience</i> , 2020, 23, 510-519.	14.8	67
27	Human Obesity Associated with an Intronic SNP in the Brain-Derived Neurotrophic Factor Locus. <i>Cell Reports</i> , 2015, 13, 1073-1080.	6.4	64
28	Association of brain-derived neurotrophic factor (BDNF) haploinsufficiency with lower adaptive behaviour and reduced cognitive functioning in WAGR/11p13 deletion syndrome. <i>Cortex</i> , 2013, 49, 2700-2710.	2.4	61
29	Making and repairing the mammalian brain's signaling toward neurogenesis and gliogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2003, 14, 161-168.	5.0	55
30	Activity-dependent brain-derived neurotrophic factor expression regulates cortistatin-interneurons and sleep behavior. <i>Molecular Brain</i> , 2011, 4, 11.	2.6	52
31	spatialLBD: an R/Bioconductor package to visualize spatially-resolved transcriptomics data. <i>BMC Genomics</i> , 2022, 23, .	2.8	50
32	Bdnf mRNA splice variants differentially impact CA1 and CA3 dendrite complexity and spine morphology in the hippocampus. <i>Brain Structure and Function</i> , 2017, 222, 3295-3307.	2.3	48
33	dotdotdot: an automated approach to quantify multiplex single molecule fluorescent in situ hybridization (smFISH) images in complex tissues. <i>Nucleic Acids Research</i> , 2020, 48, e66-e66.	14.5	46
34	Enhancing AMPA to NMDA throughput as a convergent mechanism for antidepressant action. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2006, 3, 519-526.	0.5	45
35	Phasic Dopamine Neuron Activity Elicits Unique Mesofrontal Plasticity in Adolescence. <i>Journal of Neuroscience</i> , 2014, 34, 9484-9496.	3.6	45
36	Roles of p75NTR, Long-Term Depression, and Cholinergic Transmission in Anxiety and Acute Stress Coping. <i>Biological Psychiatry</i> , 2012, 71, 75-83.	1.3	43

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37	Regulation of Brain-Derived Neurotrophic Factor Exocytosis and Gamma-Aminobutyric Acidergic Interneuron Synapse by the Schizophrenia Susceptibility Gene Dysbindin-1. <i>Biological Psychiatry</i> , 2016, 80, 312-322.	1.3	42
38	Neuropsychiatric Phenotypes Produced by GABA Reduction in Mouse Cortex and Hippocampus. <i>Neuropsychopharmacology</i> , 2018, 43, 1445-1456.	5.4	40
39	BDNF-TrkB signaling in oxytocin neurons contributes to maternal behavior. <i>ELife</i> , 2018, 7, .	6.0	38
40	Activity-dependent signaling: influence on plasticity in circuits controlling fear-related behavior. <i>Current Opinion in Neurobiology</i> , 2016, 36, 59-65.	4.2	33
41	Rapid antidepressant effects: moving right along. <i>Molecular Psychiatry</i> , 2013, 18, 856-863.	7.9	29
42	Electrophysiological measures from human iPSC-derived neurons are associated with schizophrenia clinical status and predict individual cognitive performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	29
43	Rebound Potentiation of Inhibition in Juvenile Visual Cortex Requires Vision-Induced BDNF Expression. <i>Journal of Neuroscience</i> , 2014, 34, 10770-10779.	3.6	28
44	Electroconvulsive seizures influence dendritic spine morphology and BDNF expression in a neuroendocrine model of depression. <i>Brain Stimulation</i> , 2018, 11, 856-859.	1.6	26
45	Distinct LIN-10 Domains Are Required for Its Neuronal Function, Its Epithelial Function, and Its Synaptic Localization. <i>Molecular Biology of the Cell</i> , 2005, 16, 1417-1426.	2.1	23
46	Atrophy of pyramidal neurons and increased stress-induced glutamate levels in CA3 following chronic suppression of adult neurogenesis. <i>Brain Structure and Function</i> , 2014, 219, 1139-1148.	2.3	22
47	Manipulation of a genetically and spatially defined sub-population of BDNF-expressing neurons potentiates learned fear and decreases hippocampal-prefrontal synchrony in mice. <i>Neuropsychopharmacology</i> , 2019, 44, 2239-2246.	5.4	21
48	Decoding Shared Versus Divergent Transcriptomic Signatures Across Cortico-Amygdala Circuitry in PTSD and Depressive Disorders. <i>American Journal of Psychiatry</i> , 2022, 179, 673-686.	7.2	21
49	Disruption of brain-derived neurotrophic factor production from individual promoters generates distinct body composition phenotypes in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1168-E1184.	3.5	19
50	Molecularly Defined Hippocampal Inputs Regulate Population Dynamics in the Prelimbic Cortex to Suppress Context Fear Memory Retrieval. <i>Biological Psychiatry</i> , 2020, 88, 554-565.	1.3	17
51	Narp Mediates Antidepressant-Like Effects of Electroconvulsive Seizures. <i>Neuropsychopharmacology</i> , 2018, 43, 1088-1098.	5.4	16
52	Acetylcholinesterase inhibition ameliorates deficits in motivational drive. <i>Behavioral and Brain Functions</i> , 2012, 8, 15.	3.3	10
53	Cortistatin-expressing interneurons require TrkB signaling to suppress neural hyper-excitability. <i>Brain Structure and Function</i> , 2019, 224, 471-483.	2.3	10
54	TrkB Signaling Influences Gene Expression in Cortistatin-Expressing Interneurons. <i>ENeuro</i> , 2020, 7, ENEURO.0310-19.2019.	1.9	10

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55	Single molecule in situ hybridization reveals distinct localizations of schizophrenia risk-related transcripts SNX19 and AS3MT in human brain. <i>Molecular Psychiatry</i> , 2021, 26, 3536-3547.	7.9	5
56	Strategies for cellular deconvolution in human brain RNA sequencing data. <i>F1000Research</i> , 0, 10, 750.	1.6	4
57	Induction of Bdnf from promoter I following electroconvulsive seizures contributes to structural plasticity in neurons of the piriform cortex. <i>Brain Stimulation</i> , 2022, 15, 427-433.	1.6	4
58	Neuropsychopharmacology (NPP) 2020 report on gender balance among corresponding authors and reviewers: before and during the COVID-19 pandemic. <i>Neuropsychopharmacology</i> , 2022, 47, 973-975.	5.4	3
59	Adult Neurogenesis and Cognitive Function. , 2016, , 51-94.		2
60	Neuropsychopharmacology (NPP): update on relationships between online attention and citation counts. <i>Neuropsychopharmacology</i> , 2021, 46, 1061-1063.	5.4	1
61	ISDN2014_0312: Phasic dopamine neuron activity elicits unique mesofrontal plasticity in adolescence. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 95-95.	1.6	0
62	Bdnf deficiency in the neonatal hippocampus contributes to global dna hypomethylation and adult behavioral changes. <i>Brain Research</i> , 2021, 1754, 147254.	2.2	0