

# Xinyu Zhao

## List of Publications by Year in descending order

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63  
papers

5,863  
citations

87723

38  
h-index

110170

64  
g-index

72  
all docs

72  
docs citations

72  
times ranked

7850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Adult Neurogenesis: Evidence and Remaining Questions. <i>Cell Stem Cell</i> , 2018, 23, 25-30.	5.2	601
2	Cross talk between microRNA and epigenetic regulation in adult neurogenesis. <i>Journal of Cell Biology</i> , 2010, 189, 127-141.	2.3	445
3	MicroRNA miR-137 Regulates Neuronal Maturation by Targeting Ubiquitin Ligase Mind Bomb-1. <i>Stem Cells</i> , 2010, 28, 1060-1070.	1.4	349
4	Mice lacking methyl-CpG binding protein 1 have deficits in adult neurogenesis and hippocampal function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6777-6782.	3.3	346
5	Epigenetic Regulation of miR-184 by MBD1 Governs Neural Stem Cell Proliferation and Differentiation. <i>Cell Stem Cell</i> , 2010, 6, 433-444.	5.2	287
6	Identification of Astrocyte-expressed Factors That Modulate Neural Stem/Progenitor Cell Differentiation. <i>Stem Cells and Development</i> , 2006, 15, 407-421.	1.1	273
7	Fragile X Mental Retardation Protein Regulates Proliferation and Differentiation of Adult Neural Stem/Progenitor Cells. <i>PLoS Genetics</i> , 2010, 6, e1000898.	1.5	211
8	Ablation of Fmrp in adult neural stem cells disrupts hippocampus-dependent learning. <i>Nature Medicine</i> , 2011, 17, 559-565.	15.2	205
9	Mecp2 deficiency leads to delayed maturation and altered gene expression in hippocampal neurons. <i>Neurobiology of Disease</i> , 2007, 27, 77-89.	2.1	196
10	Endogenous Matrix Metalloproteinase (MMP)-3 and MMP-9 Promote the Differentiation and Migration of Adult Neural Progenitor Cells in Response to Chemokines. <i>Stem Cells</i> , 2008, 26, 3139-3149.	1.4	179
11	Transcriptional profiling reveals strict boundaries between hippocampal subregions. <i>Journal of Comparative Neurology</i> , 2001, 441, 187-196.	0.9	178
12	The molecular biology of FMRP: new insights into fragile X syndrome. <i>Nature Reviews Neuroscience</i> , 2021, 22, 209-222.	4.9	164
13	Isolation of multipotent neural stem or progenitor cells from both the dentate gyrus and subventricular zone of a single adult mouse. <i>Nature Protocols</i> , 2012, 7, 2005-2012.	5.5	149
14	Inhibition of GSK3 $\beta$ improves hippocampus-dependent learning and rescues neurogenesis in a mouse model of fragile X syndrome. <i>Human Molecular Genetics</i> , 2012, 21, 681-691.	1.4	143
15	Crosstalk among Epigenetic Pathways Regulates Neurogenesis. <i>Frontiers in Neuroscience</i> , 2012, 6, 59.	1.4	105
16	Human Models Are Needed for Studying Human Neurodevelopmental Disorders. <i>American Journal of Human Genetics</i> , 2018, 103, 829-857.	2.6	103
17	Epigenetic Regulation of the Stem Cell Mitogen Fgf-2 by Mbd1 in Adult Neural Stem/Progenitor Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 27644-27652.	1.6	95
18	The loss of methyl-CpG binding protein 1 leads to autism-like behavioral deficits. <i>Human Molecular Genetics</i> , 2008, 17, 2047-2057.	1.4	89

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19	Alcohol Exposure Decreases CREB Binding Protein Expression and Histone Acetylation in the Developing Cerebellum. <i>PLoS ONE</i> , 2011, 6, e19351.	1.1	87
20	CRISPR/Cas9 editing of APP C-terminus attenuates $\beta$ -cleavage and promotes $\gamma$ -cleavage. <i>Nature Communications</i> , 2019, 10, 53.	5.8	81
21	RNA-Binding Protein FXR2 Regulates Adult Hippocampal Neurogenesis by Reducing Noggin Expression. <i>Neuron</i> , 2011, 70, 924-938.	3.8	78
22	Regulatory discrimination of mRNAs by FMRP controls mouse adult neural stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11397-E11405.	3.3	78
23	Epigenetic Regulation of Mammalian Stem Cells. <i>Stem Cells and Development</i> , 2008, 17, 1043-1052.	1.1	73
24	Fragile X Proteins FMRP and FXR2P Control Synaptic GluA1 Expression and Neuronal Maturation via Distinct Mechanisms. <i>Cell Reports</i> , 2015, 11, 1651-1666.	2.9	72
25	Reduced mitochondrial fusion and Huntingtin levels contribute to impaired dendritic maturation and behavioral deficits in <i>Fmr1</i> -mutant mice. <i>Nature Neuroscience</i> , 2019, 22, 386-400.	7.1	67
26	Genetics and Epigenetics in Adult Neurogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a018911.	2.3	64
27	Neural stem cells: developmental mechanisms and disease modeling. <i>Cell and Tissue Research</i> , 2018, 371, 1-6.	1.5	61
28	Cell cycle-linked MeCP2 phosphorylation modulates adult neurogenesis involving the Notch signalling pathway. <i>Nature Communications</i> , 2014, 5, 5601.	5.8	57
29	Misregulation of Alternative Splicing in a Mouse Model of Rett Syndrome. <i>PLoS Genetics</i> , 2016, 12, e1006129.	1.5	57
30	DNA Methylation and Adult Neurogenesis. <i>Brain Plasticity</i> , 2017, 3, 5-26.	1.9	56
31	Positive feedback between RNA-binding protein HuD and transcription factor SATB1 promotes neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4995-5004.	3.3	55
32	An Epigenetic Feedback Regulatory Loop Involving MicroRNA-195 and MBD1 Governs Neural Stem Cell Differentiation. <i>PLoS ONE</i> , 2013, 8, e51436.	1.1	54
33	MDM2 inhibition rescues neurogenic and cognitive deficits in a mouse model of fragile X syndrome. <i>Science Translational Medicine</i> , 2016, 8, 336ra61.	5.8	50
34	Inhibition of miR-15a Promotes BDNF Expression and Rescues Dendritic Maturation Deficits in MeCP2-Deficient Neurons. <i>Stem Cells</i> , 2015, 33, 1618-1629.	1.4	48
35	Identification of FMR1-regulated molecular networks in human neurodevelopment. <i>Genome Research</i> , 2020, 30, 361-374.	2.4	47
36	Concise Review: Fragile X Proteins in Stem Cell Maintenance and Differentiation. <i>Stem Cells</i> , 2014, 32, 1724-1733.	1.4	46

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37	Hippocampal deficits in neurodevelopmental disorders. <i>Neurobiology of Learning and Memory</i> , 2019, 165, 106945.	1.0	46
38	Establishment of Reporter Lines for Detecting Fragile X Mental Retardation ( <i>FMR1</i> ) Gene Reactivation in Human Neural Cells. <i>Stem Cells</i> , 2017, 35, 158-169.	1.4	44
39	MBD1 Contributes to the Genesis of Acute Pain and Neuropathic Pain by Epigenetic Silencing of <i>Oprm1</i> and <i>Kcna2</i> Genes in Primary Sensory Neurons. <i>Journal of Neuroscience</i> , 2018, 38, 9883-9899.	1.7	43
40	Reducing histone acetylation rescues cognitive deficits in a mouse model of Fragile X syndrome. <i>Nature Communications</i> , 2018, 9, 2494.	5.8	34
41	Steps towards standardized quantification of adult neurogenesis. <i>Nature Communications</i> , 2020, 11, 4275.	5.8	34
42	Methyl-CpG binding domain protein 1 regulates localization and activity of Tet1 in a CXXC3 domain-dependent manner. <i>Nucleic Acids Research</i> , 2017, 45, 7118-7136.	6.5	32
43	Methyl-CpG-Binding Protein MBD1 Regulates Neuronal Lineage Commitment through Maintaining Adult Neural Stem Cell Identity. <i>Journal of Neuroscience</i> , 2017, 37, 523-536.	1.7	32
44	Human pluripotent stem cell models of Fragile X syndrome. <i>Molecular and Cellular Neurosciences</i> , 2016, 73, 43-51.	1.0	29
45	Integrative Single-Cell Transcriptomics Reveals Molecular Networks Defining Neuronal Maturation During Postnatal Neurogenesis. <i>Cerebral Cortex</i> , 2017, 27, 2064-2077.	1.6	28
46	Loss of MeCP2 in immature neurons leads to impaired network integration. <i>Human Molecular Genetics</i> , 2019, 28, 245-257.	1.4	26
47	Identifying molecular mediators of environmentally enhanced neurogenesis. <i>Cell and Tissue Research</i> , 2018, 371, 7-21.	1.5	25
48	Epigenetic regulation of neuronal dendrite and dendritic spine development. <i>Frontiers in Biology</i> , 2010, 5, 304-323.	0.7	24
49	Fragile X related protein 1 (FXR1P) regulates proliferation of adult neural stem cells. <i>Human Molecular Genetics</i> , 2017, 26, 1340-1352.	1.4	24
50	Imaging Voltage in Genetically Defined Neuronal Subpopulations with a Cre Recombinase-Targeted Hybrid Voltage Sensor. <i>Journal of Neuroscience</i> , 2017, 37, 9305-9319.	1.7	24
51	Conditioned media from AICAR-treated skeletal muscle cells increases neuronal differentiation of adult neural progenitor cells. <i>Neuropharmacology</i> , 2019, 145, 123-130.	2.0	24
52	FXR1 regulation of parvalbumin interneurons in the prefrontal cortex is critical for schizophrenia-like behaviors. <i>Molecular Psychiatry</i> , 2021, 26, 6845-6867.	4.1	20
53	RGS6 Mediates Effects of Voluntary Running on Adult Hippocampal Neurogenesis. <i>Cell Reports</i> , 2020, 32, 107997.	2.9	19
54	Astroglial FMRP deficiency cell-autonomously up-regulates miR-128 and disrupts developmental astroglial mGluR5 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25092-25103.	3.3	15

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55	Intellectual and Developmental Disabilities Research Centers: A Multidisciplinary Approach to Understand the Pathogenesis of Methyl-CpG Binding Protein 2-related Disorders. <i>Neuroscience</i> , 2020, 445, 190-206.	1.1	11
56	Regulation of Adult Neurogenesis by the Fragile X Family of RNA Binding Proteins. <i>Brain Plasticity</i> , 2018, 3, 205-223.	1.9	10
57	Methyl-CpG-Binding Protein MBD1 Regulates Neuronal Lineage Commitment through Maintaining Adult Neural Stem Cell Identity. <i>Journal of Neuroscience</i> , 2017, 37, 523-536.	1.7	6
58	sncRiboTag-Seq: Cell-type-specific RiboTag-Seq for cells in low abundance in mouse brain tissue. <i>STAR Protocols</i> , 2021, 2, 100231.	0.5	5
59	Sustained correction of hippocampal neurogenic and cognitive deficits after a brief treatment by Nutlin-3 in a mouse model of fragile X syndrome. <i>BMC Medicine</i> , 2022, 20, 163.	2.3	5
60	High Throughput Small Molecule Screen for Reactivation of FMR1 in Fragile X Syndrome Human Neural Cells. <i>Cells</i> , 2022, 11, 69.	1.8	3
61	One-Step Generation of Seamless Luciferase Gene Knockin Using CRISPR/Cas9 Genome Editing in Human Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2019, 1942, 61-69.	0.4	2
62	Using Human Neural Progenitor Cell Models to Conduct Large-Scale Drug Screens for Neurological and Psychiatric Diseases. <i>Methods in Molecular Biology</i> , 2019, 1942, 79-88.	0.4	2
63	Advances in Human Stem Cells and Genome Editing to Understand and Develop Treatment for Fragile X Syndrome. <i>Advances in Neurobiology</i> , 2020, 25, 33-53.	1.3	0