Xinyu Zhao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4850938/publications.pdf

Version: 2024-02-01

63 papers	5,863 citations	87888 38 h-index	110387 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. Cell Stem Cell, 2018, 23, 25-30.	11.1	601
2	Cross talk between microRNA and epigenetic regulation in adult neurogenesis. Journal of Cell Biology, 2010, 189, 127-141.	5.2	445
3	MicroRNA miR-137 Regulates Neuronal Maturation by Targeting Ubiquitin Ligase Mind Bomb-1. Stem Cells, 2010, 28, 1060-1070.	3.2	349
4	Mice lacking methyl-CpG binding protein 1 have deficits in adult neurogenesis and hippocampal function. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6777-6782.	7.1	346
5	Epigenetic Regulation of miR-184 by MBD1 Governs Neural Stem Cell Proliferation and Differentiation. Cell Stem Cell, 2010, 6, 433-444.	11.1	287
6	Identification of Astrocyte-expressed Factors That Modulate Neural Stem/Progenitor Cell Differentiation. Stem Cells and Development, 2006, 15, 407-421.	2.1	273
7	Fragile X Mental Retardation Protein Regulates Proliferation and Differentiation of Adult Neural Stem/Progenitor Cells. PLoS Genetics, 2010, 6, e1000898.	3.5	211
8	Ablation of Fmrp in adult neural stem cells disrupts hippocampus-dependent learning. Nature Medicine, 2011, 17, 559-565.	30.7	205
9	Mecp2 deficiency leads to delayed maturation and altered gene expression in hippocampal neurons. Neurobiology of Disease, 2007, 27, 77-89.	4.4	196
10	Endogenous Matrix Metalloproteinase (MMP)-3 and MMP-9 Promote the Differentiation and Migration of Adult Neural Progenitor Cells in Response to Chemokines. Stem Cells, 2008, 26, 3139-3149.	3.2	179
11	Transcriptional profiling reveals strict boundaries between hippocampal subregions. Journal of Comparative Neurology, 2001, 441, 187-196.	1.6	178
12	The molecular biology of FMRP: new insights into fragile X syndrome. Nature Reviews Neuroscience, 2021, 22, 209-222.	10.2	164
13	Isolation of multipotent neural stem or progenitor cells from both the dentate gyrus and subventricular zone of a single adult mouse. Nature Protocols, 2012, 7, 2005-2012.	12.0	149
14	Inhibition of GSK3Â improves hippocampus-dependent learning and rescues neurogenesis in a mouse model of fragile X syndrome. Human Molecular Genetics, 2012, 21, 681-691.	2.9	143
15	Crosstalk among Epigenetic Pathways Regulates Neurogenesis. Frontiers in Neuroscience, 2012, 6, 59.	2.8	105
16	Human Models Are Needed for Studying Human Neurodevelopmental Disorders. American Journal of Human Genetics, 2018, 103, 829-857.	6.2	103
17	Epigenetic Regulation of the Stem Cell Mitogen Fgf-2 by Mbd1 in Adult Neural Stem/Progenitor Cells. Journal of Biological Chemistry, 2008, 283, 27644-27652.	3.4	95
18	The loss of methyl-CpG binding protein 1 leads to autism-like behavioral deficits. Human Molecular Genetics, 2008, 17, 2047-2057.	2.9	89

#	Article	IF	Citations
19	Alcohol Exposure Decreases CREB Binding Protein Expression and Histone Acetylation in the Developing Cerebellum. PLoS ONE, 2011, 6, e19351.	2.5	87
20	CRISPR/Cas9 editing of APP C-terminus attenuates Î²-cleavage and promotes Î±-cleavage. Nature Communications, 2019, 10, 53.	12.8	81
21	RNA-Binding Protein FXR2 Regulates Adult Hippocampal Neurogenesis by Reducing Noggin Expression. Neuron, 2011, 70, 924-938.	8.1	78
22	Regulatory discrimination of mRNAs by FMRP controls mouse adult neural stem cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11397-E11405.	7.1	78
23	Epigenetic Regulation of Mammalian Stem Cells. Stem Cells and Development, 2008, 17, 1043-1052.	2.1	73
24	Fragile X Proteins FMRP and FXR2P Control Synaptic GluA1 Expression and Neuronal Maturation via Distinct Mechanisms. Cell Reports, 2015, 11, 1651-1666.	6.4	72
25	Reduced mitochondrial fusion and Huntingtin levels contribute to impaired dendritic maturation and behavioral deficits in Fmr1-mutant mice. Nature Neuroscience, 2019, 22, 386-400.	14.8	67
26	Genetics and Epigenetics in Adult Neurogenesis. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018911.	5.5	64
27	Neural stem cells: developmental mechanisms and disease modeling. Cell and Tissue Research, 2018, 371, 1-6.	2.9	61
28	Cell cycle-linked MeCP2 phosphorylation modulates adult neurogenesis involving the Notch signalling pathway. Nature Communications, 2014, 5, 5601.	12.8	57
29	Misregulation of Alternative Splicing in a Mouse Model of Rett Syndrome. PLoS Genetics, 2016, 12, e1006129.	3.5	57
30	DNA Methylation and Adult Neurogenesis. Brain Plasticity, 2017, 3, 5-26.	3.5	56
31	Positive feedback between RNA-binding protein HuD and transcription factor SATB1 promotes neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4995-5004.	7.1	55
32	An Epigenetic Feedback Regulatory Loop Involving MicroRNA-195 and MBD1 Governs Neural Stem Cell Differentiation. PLoS ONE, 2013, 8, e51436.	2.5	54
33	MDM2 inhibition rescues neurogenic and cognitive deficits in a mouse model of fragile X syndrome. Science Translational Medicine, 2016, 8, 336ra61.	12.4	50
34	Inhibition of miR-15a Promotes BDNF Expression and Rescues Dendritic Maturation Deficits in MeCP2-Deficient Neurons. Stem Cells, 2015, 33, 1618-1629.	3.2	48
35	Identification of FMR1-regulated molecular networks in human neurodevelopment. Genome Research, 2020, 30, 361-374.	5.5	47
36	Concise Review: Fragile X Proteins in Stem Cell Maintenance and Differentiation. Stem Cells, 2014, 32, 1724-1733.	3.2	46

#	Article	IF	Citations
37	Hippocampal deficits in neurodevelopmental disorders. Neurobiology of Learning and Memory, 2019, 165, 106945.	1.9	46
38	Establishment of Reporter Lines for Detecting Fragile X Mental Retardation (FMR1) Gene Reactivation in Human Neural Cells. Stem Cells, 2017, 35, 158-169.	3.2	44
39	MBD1 Contributes to the Genesis of Acute Pain and Neuropathic Pain by Epigenetic Silencing ofOprm1andKcna2Genes in Primary Sensory Neurons. Journal of Neuroscience, 2018, 38, 9883-9899.	3.6	43
40	Reducing histone acetylation rescues cognitive deficits in a mouse model of Fragile X syndrome. Nature Communications, 2018, 9, 2494.	12.8	34
41	Steps towards standardized quantification of adult neurogenesis. Nature Communications, 2020, 11, 4275.	12.8	34
42	Methyl-CpG binding domain protein 1 regulates localization and activity of Tet1 in a CXXC3 domain-dependent manner. Nucleic Acids Research, 2017, 45, 7118-7136.	14.5	32
43	Methyl-CpG-Binding Protein MBD1 Regulates Neuronal Lineage Commitment through Maintaining Adult Neural Stem Cell Identity. Journal of Neuroscience, 2017, 37, 523-536.	3.6	32
44	Human pluripotent stem cell models of Fragile X syndrome. Molecular and Cellular Neurosciences, 2016, 73, 43-51.	2.2	29
45	Integrative Single-Cell Transcriptomics Reveals Molecular Networks Defining Neuronal Maturation During Postnatal Neurogenesis. Cerebral Cortex, 2017, 27, 2064-2077.	2.9	28
46	Loss of MeCP2 in immature neurons leads to impaired network integration. Human Molecular Genetics, 2019, 28, 245-257.	2.9	26
47	Identifying molecular mediators of environmentally enhanced neurogenesis. Cell and Tissue Research, 2018, 371, 7-21.	2.9	25
48	Epigenetic regulation of neuronal dendrite and dendritic spine development. Frontiers in Biology, 2010, 5, 304-323.	0.7	24
49	Fragile X related protein 1 (FXR1P) regulates proliferation of adult neural stem cells. Human Molecular Genetics, 2017, 26, 1340-1352.	2.9	24
50	Imaging Voltage in Genetically Defined Neuronal Subpopulations with a Cre Recombinase-Targeted Hybrid Voltage Sensor. Journal of Neuroscience, 2017, 37, 9305-9319.	3.6	24
51	Conditioned media from AICAR-treated skeletal muscle cells increases neuronal differentiation of adult neural progenitor cells. Neuropharmacology, 2019, 145, 123-130.	4.1	24
52	FXR1 regulation of parvalbumin interneurons in the prefrontal cortex is critical for schizophrenia-like behaviors. Molecular Psychiatry, 2021, 26, 6845-6867.	7.9	20
53	RGS6 Mediates Effects of Voluntary Running on Adult Hippocampal Neurogenesis. Cell Reports, 2020, 32, 107997.	6.4	19
54	Astroglial FMRP deficiency cell-autonomously up-regulates miR-128 and disrupts developmental astroglial mGluR5 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25092-25103.	7.1	15

#	ARTICLE	IF	CITATIONS
55	Intellectual and Developmental Disabilities Research Centers: A Multidisciplinary Approach to Understand the Pathogenesis of Methyl-CpG Binding Protein 2-related Disorders. Neuroscience, 2020, 445, 190-206.	2.3	11
56	Regulation of Adult Neurogenesis by the Fragile X Family of RNA Binding Proteins. Brain Plasticity, 2018, 3, 205-223.	3.5	10
57	Methyl-CpG-Binding Protein MBD1 Regulates Neuronal Lineage Commitment through Maintaining Adult Neural Stem Cell Identity. Journal of Neuroscience, 2017, 37, 523-536.	3.6	6
58	sncRiboTag-Seq: Cell-type-specific RiboTag-Seq for cells in low abundance in mouse brain tissue. STAR Protocols, 2021, 2, 100231.	1.2	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. BMC Medicine, 2022, 20, 163.	5.5	5
60	High Throughput Small Molecule Screen for Reactivation of FMR1 in Fragile X Syndrome Human Neural Cells. Cells, 2022, 11, 69.	4.1	3
61	One-Step Generation of Seamless Luciferase Gene Knockin Using CRISPR/Cas9 Genome Editing in Human Pluripotent Stem Cells. Methods in Molecular Biology, 2019, 1942, 61-69.	0.9	2
62	Using Human Neural Progenitor Cell Models to Conduct Large-Scale Drug Screens for Neurological and Psychiatric Diseases. Methods in Molecular Biology, 2019, 1942, 79-88.	0.9	2
63	Advances in Human Stem Cells and Genome Editing to Understand and Develop Treatment for Fragile X Syndrome. Advances in Neurobiology, 2020, 25, 33-53.	1.8	0