

Zhiheng Xu

List of Publications by Year in descending order

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5,895
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94433

37
h-index

76900

74
g-index

95
all docs

95
docs citations

95
times ranked

9193
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#	ARTICLE	IF	CITATIONS
1	Zika Virus Disrupts Neural Progenitor Development and Leads to Microcephaly in Mice. <i>Cell Stem Cell</i> , 2016, 19, 120-126.	11.1	614
2	A single mutation in the prM protein of Zika virus contributes to fetal microcephaly. <i>Science</i> , 2017, 358, 933-936.	12.6	399
3	Regulatory Innate Lymphoid Cells Control Innate Intestinal Inflammation. <i>Cell</i> , 2017, 171, 201-216.e18.	28.9	321
4	25-Hydroxycholesterol Protects Host against Zika Virus Infection and Its Associated Microcephaly in a Mouse Model. <i>Immunity</i> , 2017, 46, 446-456.	14.3	276
5	The MLK Family Mediates c-Jun N-Terminal Kinase Activation in Neuronal Apoptosis. <i>Molecular and Cellular Biology</i> , 2001, 21, 4713-4724.	2.3	251
6	beta-Amyloid-induced neuronal apoptosis requires c-Jun N-terminal kinase activation. <i>Journal of Neurochemistry</i> , 2001, 77, 157-164.	3.9	235
7	Delayed childhood neurodevelopment and neurosensory alterations in the second year of life in a prospective cohort of ZIKV-exposed children. <i>Nature Medicine</i> , 2019, 25, 1213-1217.	30.7	215
8	CEP-1347 (KT7515), a Semisynthetic Inhibitor of the Mixed Lineage Kinase Family. <i>Journal of Biological Chemistry</i> , 2001, 276, 25302-25308.	3.4	187
9	POSH acts as a scaffold for a multiprotein complex that mediates JNK activation in apoptosis. <i>EMBO Journal</i> , 2003, 22, 252-261.	7.8	167
10	Zika Virus Disrupts Neural Progenitor Development and Leads to Microcephaly in Mice. <i>Cell Stem Cell</i> , 2016, 19, 672.	11.1	164
11	Melittin prevents liver cancer cell metastasis through inhibition of the Rac1-dependent pathway. <i>Hepatology</i> , 2008, 47, 1964-1973.	7.3	163
12	Zika-Virus-Encoded NS2A Disrupts Mammalian Cortical Neurogenesis by Degrading Adherens Junction Proteins. <i>Cell Stem Cell</i> , 2017, 21, 349-358.e6.	11.1	163
13	Chloroquine, a FDA-approved Drug, Prevents Zika Virus Infection and its Associated Congenital Microcephaly in Mice. <i>EBioMedicine</i> , 2017, 24, 189-194.	6.1	144
14	Leucine-rich repeat kinase 2 disturbs mitochondrial dynamics via Dynamin-like protein. <i>Journal of Neurochemistry</i> , 2012, 122, 650-658.	3.9	134
15	Methylation of Ribosomal Protein S10 by Protein-arginine Methyltransferase 5 Regulates Ribosome Biogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 12695-12705.	3.4	119
16	Zika virus infection induces RNAi-mediated antiviral immunity in human neural progenitors and brain organoids. <i>Cell Research</i> , 2019, 29, 265-273.	12.0	115
17	Regulation of stem cell factor receptor signaling by Cbl family proteins (Cbl-b/c-Cbl). <i>Blood</i> , 2005, 105, 226-232.	1.4	110
18	Synergistic Effects of the SAPK/JNK and the Proteasome Pathway on Glial Fibrillary Acidic Protein (GFAP) Accumulation in Alexander Disease. <i>Journal of Biological Chemistry</i> , 2006, 281, 38634-38643.	3.4	89

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19	Zika virus directly infects peripheral neurons and induces cell death. <i>Nature Neuroscience</i> , 2017, 20, 1209-1212.	14.8	85
20	Brain-specific Crmp2 deletion leads to neuronal development deficits and behavioural impairments in mice. <i>Nature Communications</i> , 2016, 7, .	12.8	84
21	Mixed Lineage Kinase 3 (MLK3)-activated p38 MAP Kinase Mediates Transforming Growth Factor- β -induced Apoptosis in Hepatoma Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 29478-29484.	3.4	82
22	<i>HDAC6</i> mutations rescue human tau-induced microtubule defects in <i>Drosophila</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4604-4609.	7.1	80
23	Microcephaly-Associated Protein WDR62 Regulates Neurogenesis through JNK1 in the Developing Neocortex. <i>Cell Reports</i> , 2014, 6, 104-116.	6.4	71
24	Hint1 Inhibits Growth and Activator Protein-1 Activity in Human Colon Cancer Cells. <i>Cancer Research</i> , 2007, 67, 4700-4708.	0.9	68
25	POSH Localizes Activated Rac1 to Control the Formation of Cytoplasmic Dilation of the Leading Process and Neuronal Migration. <i>Cell Reports</i> , 2012, 2, 640-651.	6.4	63
26	Direct Interaction of the Molecular Scaffolds POSH and JIP Is Required for Apoptotic Activation of JNKs. <i>Journal of Biological Chemistry</i> , 2006, 281, 15517-15524.	3.4	61
27	Regulation of Apoptotic c-Jun N-Terminal Kinase Signaling by a Stabilization-Based Feed-Forward Loop. <i>Molecular and Cellular Biology</i> , 2005, 25, 9949-9959.	2.3	58
28	Siah1 Interacts with the Scaffold Protein POSH to Promote JNK Activation and Apoptosis*. <i>Journal of Biological Chemistry</i> , 2006, 281, 303-312.	3.4	57
29	Zika Virus Protease Cleavage of Host Protein Septin-2 Mediates Mitotic Defects in Neural Progenitors. <i>Neuron</i> , 2019, 101, 1089-1098.e4.	8.1	55
30	The Suppression of CRMP2 Expression by Bone Morphogenetic Protein (BMP)-SMAD Gradient Signaling Controls Multiple Stages of Neuronal Development. <i>Journal of Biological Chemistry</i> , 2010, 285, 39039-39050.	3.4	49
31	BMP2-SMAD Signaling Represses the Proliferation of Embryonic Neural Stem Cells through YAP. <i>Journal of Neuroscience</i> , 2014, 34, 12039-12048.	3.6	49
32	<i>Drosophila</i> Tubulin-specific chaperone E functions at neuromuscular synapses and is required for microtubule network formation. <i>Development (Cambridge)</i> , 2009, 136, 1571-1581.	2.5	48
33	Intranasal infection and contact transmission of Zika virus in guinea pigs. <i>Nature Communications</i> , 2017, 8, 1648.	12.8	47
34	American Strain of Zika Virus Causes More Severe Microcephaly Than an Old Asian Strain in Neonatal Mice. <i>EBioMedicine</i> , 2017, 25, 95-105.	6.1	47
35	Disruption of glial cell development by Zika virus contributes to severe microcephalic newborn mice. <i>Cell Discovery</i> , 2018, 4, 43.	6.7	47
36	Epigenetic regulation of Atrophia1 by lysine-specific demethylase 1 is required for cortical progenitor maintenance. <i>Nature Communications</i> , 2014, 5, 5815.	12.8	46

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37	Transferrin Receptor Controls AMPA Receptor Trafficking Efficiency and Synaptic Plasticity. <i>Scientific Reports</i> , 2016, 6, 21019.	3.3	43
38	Opposing roles for JNK and Aurora A in regulating WD40-Repeat Protein 62 association with spindle microtubules. <i>Journal of Cell Science</i> , 2015, 128, 527-40.	2.0	41
39	Transfer of convalescent serum to pregnant mice prevents Zika virus infection and microcephaly in offspring. <i>Cell Research</i> , 2017, 27, 158-160.	12.0	39
40	Proapoptotic Nix Activates the JNK Pathway by Interacting with POSH and Mediates Death in a Parkinson Disease Model. <i>Journal of Biological Chemistry</i> , 2007, 282, 1288-1295.	3.4	35
41	Mea6 controls VLDL transport through the coordinated regulation of COPII assembly. <i>Cell Research</i> , 2016, 26, 787-804.	12.0	34
42	ULK1 and JNK are involved in mitophagy incurred by LRRK2 G2019S expression. <i>Protein and Cell</i> , 2013, 4, 711-721.	11.0	33
43	Brain Tumor Regulates Neuromuscular Synapse Growth and Endocytosis in <i>Drosophila</i> by Suppressing Mad Expression. <i>Journal of Neuroscience</i> , 2013, 33, 12352-12363.	3.6	33
44	A Novel c-Jun N-terminal Kinase (JNK) Signaling Complex Involved in Neuronal Migration during Brain Development. <i>Journal of Biological Chemistry</i> , 2016, 291, 11466-11475.	3.4	33
45	Aberrant NAD ⁺ metabolism underlies Zika virus-induced microcephaly. <i>Nature Metabolism</i> , 2021, 3, 1109-1124.	11.9	33
46	<i>cTAGE5</i> deletion in pancreatic β cells impairs proinsulin trafficking and insulin biogenesis in mice. <i>Journal of Cell Biology</i> , 2017, 216, 4153-4164.	5.2	32
47	The association of microcephaly protein WDR62 with CPAP/IFT88 is required for cilia formation and neocortical development. <i>Human Molecular Genetics</i> , 2020, 29, 248-263.	2.9	31
48	Wdr62 is involved in female meiotic initiation via activating JNK signaling and associated with POI in humans. <i>PLoS Genetics</i> , 2018, 14, e1007463.	3.5	30
49	A Single Injection of Human Neutralizing Antibody Protects against Zika Virus Infection and Microcephaly in Developing Mouse Embryos. <i>Cell Reports</i> , 2018, 23, 1424-1434.	6.4	29
50	The Role of WD40-Repeat Protein 62 (MCPH2) in Brain Growth: Diverse Molecular and Cellular Mechanisms Required for Cortical Development. <i>Molecular Neurobiology</i> , 2018, 55, 5409-5424.	4.0	27
51	Sh3rf2/POSH Protein Promotes Cell Survival by Ring-mediated Proteasomal Degradation of the c-Jun N-terminal Kinase Scaffold POSH (Plenty of SH3s) Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 2247-2256.	3.4	25
52	Sh3rf2 Haploinsufficiency Leads to Unilateral Neuronal Development Deficits and Autistic-Like Behaviors in Mice. <i>Cell Reports</i> , 2018, 25, 2963-2971.e6.	6.4	25
53	Evolutionarily conservative and non-conservative regulatory networks during primate interneuron development revealed by single-cell RNA and ATAC sequencing. <i>Cell Research</i> , 2022, 32, 425-436.	12.0	25
54	Numb regulates vesicular docking for homotypic fusion of early endosomes via membrane recruitment of Mon1b. <i>Cell Research</i> , 2016, 26, 593-612.	12.0	24

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55	Treatment of SARS-CoV-2-induced pneumonia with NAD ⁺ and NMN in two mouse models. <i>Cell Discovery</i> , 2022, 8, 38.	6.7	24
56	Adenine Nucleotide Translocator Cooperates with Core Cell Death Machinery To Promote Apoptosis in <i>Caenorhabditis elegans</i> . <i>Molecular and Cellular Biology</i> , 2009, 29, 3881-3893.	2.3	23
57	The JNK Pathway and Neuronal Migration. <i>Journal of Genetics and Genomics</i> , 2007, 34, 957-965.	3.9	20
58	Expression of leucine-rich repeat kinase 2 (LRRK2) inhibits the processing of uMtCK to induce cell death in a cell culture model system. <i>Bioscience Reports</i> , 2011, 31, 429-437.	2.4	19
59	Upregulation of MicroRNA miR-9 Is Associated with Microcephaly and Zika Virus Infection in Mice. <i>Molecular Neurobiology</i> , 2019, 56, 4072-4085.	4.0	19
60	cTAGE5/MEA6 plays a critical role in neuronal cellular components trafficking and brain development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9449-E9458.	7.1	18
61	Update on the Animal Models and Underlying Mechanisms for ZIKV-Induced Microcephaly. <i>Annual Review of Virology</i> , 2019, 6, 459-479.	6.7	18
62	JNK activation mediates the apoptosis of xCT-deficient cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 370, 584-588.	2.1	17
63	E90 subunit vaccine protects mice from Zika virus infection and microcephaly. <i>Acta Neuropathologica Communications</i> , 2018, 6, 77.	5.2	17
64	MAZ mediates the cross-talk between CT-1 and NOTCH1 signaling during gliogenesis. <i>Scientific Reports</i> , 2016, 6, 21534.	3.3	16
65	MEKK3 coordinates with FBW7 to regulate WDR62 stability and neurogenesis. <i>PLoS Biology</i> , 2018, 16, e2006613.	5.6	14
66	Talpid3-Mediated Centrosome Integrity Restrains Neural Progenitor Delamination to Sustain Neurogenesis by Stabilizing Adherens Junctions. <i>Cell Reports</i> , 2020, 33, 108495.	6.4	14
67	Activation of the Apoptotic JNK Pathway Through the Rac1-Binding Scaffold Protein POSH. <i>Methods in Enzymology</i> , 2006, 406, 479-489.	1.0	13
68	Different Gene Networks Are Disturbed by Zika Virus Infection in A Mouse Microcephaly Model. <i>Genomics, Proteomics and Bioinformatics</i> , 2020, 18, 737-748.	6.9	12
69	Cbl negatively regulates JNK activation and cell death. <i>Cell Research</i> , 2009, 19, 950-961.	12.0	11
70	Expression, purification and preliminary biochemical studies of the N-terminal domain of leucine-rich repeat kinase 2. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1780-1784.	2.3	10
71	POSH is involved in Eiger-Basket (TNF-JNK) signaling and embryogenesis in <i>Drosophila</i> . <i>Journal of Genetics and Genomics</i> , 2010, 37, 605-619.	3.9	9
72	TAK1 is activated by TGF- β ² signaling and controls axonal growth during brain development. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 349-351.	3.3	9

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73	Identification of POSH2, a Novel Homologue of the c-Jun N-Terminal Kinase Scaffold Protein POSH. <i>Developmental Neuroscience</i> , 2007, 29, 355-362.	2.0	8
74	Zika Virus Infection Leads to Variable Defects in Multiple Neurological Functions and Behaviors in Mice and Children. <i>Advanced Science</i> , 2020, 7, 1901996.	11.2	8
75	Analysis of the meiotic role of the mitochondrial ribosomal proteins Mrps17 and Mrpl37 in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2004, 21, 1241-1252.	1.7	7
76	Î²-Amyloid-induced neuronal apoptosis requires c-Jun N-terminal kinase activation. <i>Journal of Neurochemistry</i> , 2008, 77, 157-164.	3.9	7
77	POSH regulates assembly of the NMDAR/PSD-95/Shank complex and synaptic function. <i>Cell Reports</i> , 2022, 39, 110642.	6.4	7
78	Pathophysiological Significance of WDR62 and JNK Signaling in Human Diseases. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 640753.	3.7	6
79	A single nonsynonymous mutation on ZIKV E protein-coding sequences leads to markedly increased neurovirulence in vivo. <i>Virologica Sinica</i> , 2022, 37, 115-126.	3.0	6
80	Regulation of the protein stability of POSH and MLK family. <i>Protein and Cell</i> , 2010, 1, 871-878.	11.0	4
81	Regulation of neural stem cell by bone morphogenetic protein (BMP) signaling during brain development. <i>Frontiers in Biology</i> , 2010, 5, 380-385.	0.7	2
82	Efficient genetic manipulation in the developing brain of tree shrew using in utero electroporation and virus infection. <i>Journal of Genetics and Genomics</i> , 2017, 44, 507-509.	3.9	2
83	SRPS associated protein WDR60 regulates the multipolar-to-bipolar transition of migrating neurons during cortical development. <i>Cell Death and Disease</i> , 2021, 12, 75.	6.3	2
84	Molecular mechanisms underlying cTAGE5/MEA6-mediated cargo transport and biological functions. <i>Journal of Genetics and Genomics</i> , 2022, 49, 519-522.	3.9	2
85	The B-cell receptor BR3 modulates cellular branching via Rac1 during neuronal migration. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 363-365.	3.3	1
86	Schizophrenia risk-gene Crmp2 deficiency causes precocious critical period plasticity and deteriorated binocular vision. <i>Science Bulletin</i> , 2021, 66, 2225-2237.	9.0	1
87	Space Solar Telescope Data format Analysis and Configuration. , 2003, 4853, 640.		0
88	Driving WDR62 to the pole. <i>Cell Cycle</i> , 2016, 15, 1180-1181.	2.6	0
89	The development of human monoclonal antibodies against Zika virus. , 2021, , 359-366.		0
90	Zika virus infection disrupts development of both neurons and glial cells. , 2021, , 189-198.		0