Rong Grace Zhai

List of Publications by Year
in descending order

47	3,842	26	45
papers	citations	h-index	g-index

218662 233409

57	57	57	5030
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synaptojanin Is Recruited by Endophilin to Promote Synaptic Vesicle Uncoating. Neuron, 2003, 40, 733-748.	8.1	376
2	Assembling the Presynaptic Active Zone. Neuron, 2001, 29, 131-143.	8.1	372
3	The v-ATPase V 0 Subunit a1 Is Required for a Late Step in Synaptic Vesicle Exocytosis in Drosophila. Cell, 2005, 121, 607-620.	28.9	297
4	Unitary Assembly of Presynaptic Active Zones from Piccolo-Bassoon Transport Vesicles. Neuron, 2003, 38, 237-252.	8.1	285
5	The Architecture of the Active Zone in the Presynaptic Nerve Terminal. Physiology, 2004, 19, 262-270.	3.1	244
6	NAD synthase NMNAT acts as a chaperone to protect against neurodegeneration. Nature, 2008, 452, 887-891.	27.8	193
7	Molecular mechanisms of CNS synaptogenesis. Trends in Neurosciences, 2002, 25, 243-250.	8.6	172
8	Protein Aggregates Are Recruited to Aggresome by Histone Deacetylase 6 via Unanchored Ubiquitin C Termini. Journal of Biological Chemistry, 2012, 287, 2317-2327.	3.4	169
9	Drosophila NMNAT Maintains Neural Integrity Independent of Its NAD Synthesis Activity. PLoS Biology, 2006, 4, e416.	5.6	160
10	Mutations in Drosophila sec15 Reveal a Function in Neuronal Targeting for a Subset of Exocyst Components. Neuron, 2005, 46, 219-232.	8.1	129
11	Assaying Locomotor, Learning, and Memory Deficits in Drosophila Models of Neurodegeneration. Journal of Visualized Experiments, 2011, , .	0.3	117
12	CREB-activity and nmnat2 transcription are down-regulated prior to neurodegeneration, while NMNAT2 over-expression is neuroprotective, in a mouse model of human tauopathy. Human Molecular Genetics, 2012, 21, 251-267.	2.9	98
13	NMNAT suppresses Tau-induced neurodegeneration by promoting clearance of hyperphosphorylated Tau oligomers in a Drosophila model of tauopathy. Human Molecular Genetics, 2012, 21, 237-250.	2.9	97
14	Biallelic mutations in SORD cause a common and potentially treatable hereditary neuropathy with implications for diabetes. Nature Genetics, 2020, 52, 473-481.	21.4	97
15	Activity-Independent Prespecification of Synaptic Partners in the Visual Map of Drosophila. Current Biology, 2006, 16, 1835-1843.	3.9	96
16	Mapping Drosophila mutations with molecularly defined P element insertions. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10860-10865.	7.1	89
17	NMNATs, evolutionarily conserved neuronal maintenance factors. Trends in Neurosciences, 2013, 36, 632-640.	8.6	85
18	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase, new insights into an ancient enzyme. Cellular and Molecular Life Sciences, 2009, 66, 2805-2818.	5.4	78

#	Article	IF	Citations
19	Mislocalization of neuronal mitochondria reveals regulation of Wallerian degeneration and NMNAT/WLDS-mediated axon protection independent of axonal mitochondria. Human Molecular Genetics, 2013, 22, 1601-1614.	2.9	64
20	Spermine synthase deficiency causes lysosomal dysfunction and oxidative stress in models of Snyder-Robinson syndrome. Nature Communications, 2017, 8, 1257.	12.8	64
21	NMNAT: Itâ€™s an NAD + synthaseâ€¦ Itâ€™s a chaperoneâ€¦ Itâ€™s a neuroprotector. Current Opinion in Genetics and Development, 2017, 44, 156-162.	3.3	60
22	Alternative splicing of Drosophila Nmnat functions as a switch to enhance neuroprotection under stress. Nature Communications, 2015, 6, 10057.	12.8	48
23	Nmnat exerts neuroprotective effects in dendrites and axons. Molecular and Cellular Neurosciences, 2011, 48, 1-8.	2.2	47
24	Severe biallelic loss-of-function mutations in nicotinamide mononucleotide adenylyltransferase 2 (NMNAT2) in two fetuses with fetal akinesia deformation sequence. Experimental Neurology, 2019, 320, 112961.	4.1	46
25	Dealing with Misfolded Proteins: Examining the Neuroprotective Role of Molecular Chaperones in Neurodegeneration. Molecules, 2010, 15, 6859-6887.	3.8	37
26	Nicotinamide Mononucleotide Adenylyltransferase Is a Stress Response Protein Regulated by the Heat Shock Factor/Hypoxia-inducible Factor 1Î± Pathway. Journal of Biological Chemistry, 2011, 286, 19089-19099.	3.4	36
27	Î²-N-Methylamino-L-Alanine Induces Neurological Deficits and Shortened Life Span in Drosophila. Toxins, 2010, 2, 2663-2679.	3.4	25
28	Nicotinamide mononucleotide adenylyltransferase maintains active zone structure by stabilizing Bruchpilot. EMBO Reports, 2013, 14, 87-94.	4.5	24
29	Defining Disease, Diagnosis, and Translational Medicine within a Homeostatic Perturbation Paradigm: The National Institutes of Health Undiagnosed Diseases Program Experience. Frontiers in Medicine, 2017, 4, 62.	2.6	23
30	Nmnat restores neuronal integrity by neutralizing mutant Huntingtin aggregate-induced progressive toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19165-19175.	7.1	23
31	Quantitative Cell Biology of Neurodegeneration in Drosophila Through Unbiased Analysis of Fluorescently Tagged Proteins Using ImageJ. Journal of Visualized Experiments, 2018, , .	0.3	20
32	BMAA neurotoxicity in Drosophila. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2009, 10, 61-66.	2.1	19
33	The role of autophagy in Nmnat-mediated protection against hypoxia-induced dendrite degeneration. Molecular and Cellular Neurosciences, 2013, 52, 140-151.	2.2	18
34	Nicotinamide mononucleotide adenylyltransferase uses its NAD+ substrate-binding site to chaperone phosphorylated Tau. ELife, 2020, 9, .	6.0	18
35	Nmnat mitigates sensory dysfunction in a <i>Drosophila</i> model of paclitaxel-induced peripheral neuropathy. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	17
36	Attenuation of polyglutamine-induced toxicity by enhancement of mitochondrial OXPHOS in yeast and fly models of aging. Microbial Cell, 2016, 3, 338-351.	3.2	15

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37	Dysfunction of GRAP, encoding the GRB2-related adaptor protein, is linked to sensorineural hearing loss. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1347-1352.	7.1	15
38	Exposure to Aerosolized Algal Toxins in South Florida Increases Short- and Long-Term Health Risk in Drosophila Model of Aging. Toxins, 2020, 12, 787.	3.4	13
39	NMNAT promotes glioma growth through regulating post-translational modifications of P53 to inhibit apoptosis. ELife, 2021, 10, .	6.0	13
40	Hauling t-SNAREs on the microtubule highway. Nature Cell Biology, 2004, 6, 918-919.	10.3	8
41	microRNA-92a regulates the expression of aphid bacteriocyte-specific secreted protein 1. BMC Research Notes, 2019, 12, 638.	1.4	7
42	Development of a Redox-Sensitive Spermine Prodrug for the Potential Treatment of Snyder Robinson Syndrome. Journal of Medicinal Chemistry, 2021, 64, 15593-15607.	6.4	7
43	Human Nmnat1 Promotes Autophagic Clearance of Amyloid Plaques in a Drosophila Model of Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2022, 14, 852972.	3.4	7
44	Phenylbutyrate modulates polyamine acetylase and ameliorates Snyder-Robinson syndrome in a Drosophila model and patient cells. JCI Insight, 2022, 7, .	5.0	7
45	MicroRNA miR-1002 Enhances NMNAT-Mediated Stress Response by Modulating Alternative Splicing. IScience, 2019, 19, 1048-1064.	4.1	3
46	Drosophila Models of Tauopathy. , 2015, , 829-848.		1
47	Knight in Splicing Armor: Alternative Splicing as a Neuroprotective Mechanism. , 2020, 4, 1-21.		0