

# Rong Grace Zhai

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

3,084  
citations

26  
h-index

55  
g-index

57  
ext. papers

3,552  
ext. citations

10.7  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
45	Human Nmnat1 Promotes Autophagic Clearance of Amyloid Plaques in a Model of Alzheimer's Disease.. <i>Frontiers in Aging Neuroscience</i> , <b>2022</b> , 14, 852972	5.3	0
44	NMNAT promotes glioma growth through regulating post-translational modifications of P53 to inhibit apoptosis.. <i>ELife</i> , <b>2021</b> , 10,	8.9	1
43	Development of a Redox-Sensitive Spermine Prodrug for the Potential Treatment of Snyder Robinson Syndrome. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 15593-15607	8.3	1
42	Biallelic mutations in SORD cause a common and potentially treatable hereditary neuropathy with implications for diabetes. <i>Nature Genetics</i> , <b>2020</b> , 52, 473-481	36.3	38
41	Nicotinamide mononucleotide adenylyltransferase uses its NAD substrate-binding site to chaperone phosphorylated Tau. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
40	Exposure to Aerosolized Algal Toxins in South Florida Increases Short- and Long-Term Health Risk in Model of Aging. <i>Toxins</i> , <b>2020</b> , 12,	4.9	4
39	MicroRNA miR-1002 Enhances NMNAT-Mediated Stress Response by Modulating Alternative Splicing. <i>IScience</i> , <b>2019</b> , 19, 1048-1064	6.1	0
38	microRNA-92a regulates the expression of aphid bacteriocyte-specific secreted protein 1. <i>BMC Research Notes</i> , <b>2019</b> , 12, 638	2.3	4
37	Severe biallelic loss-of-function mutations in nicotinamide mononucleotide adenylyltransferase 2 (NMNAT2) in two fetuses with fetal akinesia deformation sequence. <i>Experimental Neurology</i> , <b>2019</b> , 320, 112961	5.7	29
36	Nmnat restores neuronal integrity by neutralizing mutant Huntingtin aggregate-induced progressive toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19165-19175	11.5	14
35	Dysfunction of , encoding the GRB2-related adaptor protein, is linked to sensorineural hearing loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 1347-1352	11.5	8
34	Nmnat mitigates sensory dysfunction in a model of paclitaxel-induced peripheral neuropathy. <i>DMM Disease Models and Mechanisms</i> , <b>2018</b> , 11,	4.1	12
33	Quantitative Cell Biology of Neurodegeneration in Drosophila Through Unbiased Analysis of Fluorescently Tagged Proteins Using ImageJ. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	13
32	NMNAT: It's an NAD synthase—it's a chaperone—it's a neuroprotector. <i>Current Opinion in Genetics and Development</i> , <b>2017</b> , 44, 156-162	4.9	41
31	Spermine synthase deficiency causes lysosomal dysfunction and oxidative stress in models of Snyder-Robinson syndrome. <i>Nature Communications</i> , <b>2017</b> , 8, 1257	17.4	36
30	Defining Disease, Diagnosis, and Translational Medicine within a Homeostatic Perturbation Paradigm: The National Institutes of Health Undiagnosed Diseases Program Experience. <i>Frontiers in Medicine</i> , <b>2017</b> , 4, 62	4.9	17
29	Attenuation of polyglutamine-induced toxicity by enhancement of mitochondrial OXPHOS in yeast and fly models of aging. <i>Microbial Cell</i> , <b>2016</b> , 3, 338-351	3.9	13

28	Drosophila Models of Tauopathy <b>2015</b> , 829-848		1
27	Alternative splicing of Drosophila Nmnat functions as a switch to enhance neuroprotection under stress. <i>Nature Communications</i> , <b>2015</b> , 6, 10057	17.4	31
26	Nicotinamide mononucleotide adenylyltransferase maintains active zone structure by stabilizing Bruchpilot. <i>EMBO Reports</i> , <b>2013</b> , 14, 87-94	6.5	17
25	NMNATs, evolutionarily conserved neuronal maintenance factors. <i>Trends in Neurosciences</i> , <b>2013</b> , 36, 632-40	13.5	47
24	The role of autophagy in Nmnat-mediated protection against hypoxia-induced dendrite degeneration. <i>Molecular and Cellular Neurosciences</i> , <b>2013</b> , 52, 140-51	4.8	14
23	Mislocalization of neuronal mitochondria reveals regulation of Wallerian degeneration and NMNAT/WLD(S)-mediated axon protection independent of axonal mitochondria. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 1601-14	5.6	53
22	CREB-activity and nmnat2 transcription are down-regulated prior to neurodegeneration, while NMNAT2 over-expression is neuroprotective, in a mouse model of human tauopathy. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 251-67	5.6	84
21	Protein aggregates are recruited to aggresome by histone deacetylase 6 via unanchored ubiquitin C termini. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 2317-27	5.4	141
20	NMNAT suppresses tau-induced neurodegeneration by promoting clearance of hyperphosphorylated tau oligomers in a Drosophila model of tauopathy. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 237-50	5.6	82
19	Nmnat exerts neuroprotective effects in dendrites and axons. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 48, 1-8	4.8	35
18	Assaying locomotor, learning, and memory deficits in Drosophila models of neurodegeneration. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	76
17	Nicotinamide mononucleotide adenylyltransferase is a stress response protein regulated by the heat shock factor/hypoxia-inducible factor 1alpha pathway. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 19089-99	5.4	29
16	EN-methylamino-L-alanine induces neurological deficits and shortened life span in Drosophila. <i>Toxins</i> , <b>2010</b> , 2, 2663-79	4.9	19
15	Dealing with misfolded proteins: examining the neuroprotective role of molecular chaperones in neurodegeneration. <i>Molecules</i> , <b>2010</b> , 15, 6859-87	4.8	33
14	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase, new insights into an ancient enzyme. <i>Cellular and Molecular Life Sciences</i> , <b>2009</b> , 66, 2805-18	10.3	56
13	BMAA neurotoxicity in Drosophila. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , <b>2009</b> , 10 Suppl 2, 61-6		11
12	NAD synthase NMNAT acts as a chaperone to protect against neurodegeneration. <i>Nature</i> , <b>2008</b> , 452, 887-91	50.4	165
11	Activity-independent prespecification of synaptic partners in the visual map of Drosophila. <i>Current Biology</i> , <b>2006</b> , 16, 1835-43	6.3	87

10	Drosophila NMNAT maintains neural integrity independent of its NAD synthesis activity. <i>PLoS Biology</i> , <b>2006</b> , 4, e416	9.7	125
9	The v-ATPase V0 subunit a1 is required for a late step in synaptic vesicle exocytosis in Drosophila. <i>Cell</i> , <b>2005</b> , 121, 607-620	56.2	252
8	Mutations in Drosophila sec15 reveal a function in neuronal targeting for a subset of exocyst components. <i>Neuron</i> , <b>2005</b> , 46, 219-32	13.9	122
7	The architecture of the active zone in the presynaptic nerve terminal. <i>Physiology</i> , <b>2004</b> , 19, 262-70	9.8	206
6	Mapping Drosophila mutations with molecularly defined P element insertions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 10860-5	11.5	82
5	Unitary assembly of presynaptic active zones from Piccolo-Bassoon transport vesicles. <i>Neuron</i> , <b>2003</b> , 38, 237-52	13.9	255
4	Synaptojanin is recruited by endophilin to promote synaptic vesicle uncoating. <i>Neuron</i> , <b>2003</b> , 40, 733-48	13.9	315
3	Molecular mechanisms of CNS synaptogenesis. <i>Trends in Neurosciences</i> , <b>2002</b> , 25, 243-51	13.3	158
2	Assembling the presynaptic active zone: a characterization of an active one precursor vesicle. <i>Neuron</i> , <b>2001</b> , 29, 131-43	13.9	337
1	Severe Biallelic Loss-of-function Mutations in Nicotinamide Mononucleotide Adenylyltransferase 2 (NMNAT2) in Two Fetuses with Fetal Akinesia Deformation Sequence		1