

# J Alex Parker

## List of Publications by Year in Descending Order

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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.

59 papers	2,871 citations	29 h-index	53 g-index
66 ext. papers	3,348 ext. citations	7.8 avg, IF	5.01 L-index

#	Paper	IF	Citations
59	Phosphoglycolate phosphatase homologs act as glycerol-3-phosphate phosphatase to control stress and healthspan in <i>C. elegans</i> . <i>Nature Communications</i> , <b>2022</b> , 13, 177	17.4	4
58	Small Molecule Rescue of ATXN3 Toxicity in <i>C. elegans</i> via TFEB/HLH-30. <i>Neurotherapeutics</i> , <b>2021</b> , 18, 1151-1165	6.4	1
57	Chromatin remodeller CHD7 is required for GABAergic neuron development by promoting PAQR3 expression. <i>EMBO Reports</i> , <b>2021</b> , 22, e50958	6.5	3
56	TDP-43 stabilizes G3BP1 mRNA: relevance to amyotrophic lateral sclerosis/frontotemporal dementia. <i>Brain</i> , <b>2021</b> ,	11.2	6
55	Chemical and genetic rescue of in vivo progranulin-deficient lysosomal and autophagic defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	1
54	Overexpression of FKH-2/FOXG1 is neuroprotective in a <i>C. elegans</i> model of Machado-Joseph disease. <i>Experimental Neurology</i> , <b>2021</b> , 337, 113544	5.7	1
53	TMEM106B, an unexpected point of contact between FTD, ageing and a hypomyelination disorder. <i>Brain</i> , <b>2020</b> , 143, 1628-1631	11.2	
52	Modulating the endoplasmic reticulum stress response attenuates neurodegeneration in a model of spinal muscular atrophy. <i>DMM Disease Models and Mechanisms</i> , <b>2020</b> , 13,	4.1	1
51	Pleiotropic Effects of mTOR and Autophagy During Development and Aging. <i>Frontiers in Cell and Developmental Biology</i> , <b>2019</b> , 7, 192	5.7	52
50	RNA-Based Therapy Utilizing Oculopharyngeal Muscular Dystrophy Transcript Knockdown and Replacement. <i>Molecular Therapy - Nucleic Acids</i> , <b>2019</b> , 15, 12-25	10.7	6
49	The Novel Small Molecule TRVA242 Stabilizes Neuromuscular Junction Defects in Multiple Animal Models of Amyotrophic Lateral Sclerosis. <i>Neurotherapeutics</i> , <b>2019</b> , 16, 1149-1166	6.4	15
48	Worms on the spectrum - <i>C. elegans</i> models in autism research. <i>Experimental Neurology</i> , <b>2018</b> , 299, 199-206	5.7	9
47	Methods to Investigate the Molecular Basis of Progranulin Action on Neurons In Vivo Using <i>Caenorhabditis elegans</i> . <i>Methods in Molecular Biology</i> , <b>2018</b> , 1806, 179-191	1.4	
46	Valproic acid is protective in cellular and worm models of oculopharyngeal muscular dystrophy. <i>Neurology</i> , <b>2018</b> , 91, e551-e561	6.5	4
45	Nicotinamide-N-methyltransferase controls behavior, neurodegeneration and lifespan by regulating neuronal autophagy. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007561	6	19
44	<i>C. elegans</i> neurons jettison protein aggregates and mitochondria under neurotoxic stress. <i>Nature</i> , <b>2017</b> , 542, 367-371	50.4	176
43	A rapid chemical-genetic screen utilizing impaired movement phenotypes in <i>C. elegans</i> : Input into genetics of neurodevelopmental disorders. <i>Experimental Neurology</i> , <b>2017</b> , 293, 101-114	5.7	12

42	Rescue of ATXN3 neuronal toxicity in by chemical modification of endoplasmic reticulum stress. <i>DMM Disease Models and Mechanisms</i> , <b>2017</b> , 10, 1465-1480	4.1	15
41	The stress response factor daf-16/FOXO is required for multiple compound families to prolong the function of neurons with Huntington's disease. <i>Scientific Reports</i> , <b>2017</b> , 7, 4014	4.9	20
40	Neuroleptics as therapeutic compounds stabilizing neuromuscular transmission in amyotrophic lateral sclerosis. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	55
39	Expression of human Bcl-xL (Ser49) and (Ser62) mutants in <i>Caenorhabditis elegans</i> causes germline defects and aneuploidy. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177413	3.7	3
38	Morphological remodeling of neurons during aging is modified by compromised protein homeostasis. <i>Npj Aging and Mechanisms of Disease</i> , <b>2016</b> , 2,	5.5	13
37	FET proteins regulate lifespan and neuronal integrity. <i>Scientific Reports</i> , <b>2016</b> , 6, 25159	4.9	9
36	Simple animal models for amyotrophic lateral sclerosis drug discovery. <i>Expert Opinion on Drug Discovery</i> , <b>2016</b> , 11, 797-804	6.2	12
35	Conserved pharmacological rescue of hereditary spastic paraplegia-related phenotypes across model organisms. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 1088-99	5.6	16
34	AMPK activation protects from neuronal dysfunction and vulnerability across nematode, cellular and mouse models of Huntington's disease. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 1043-58	5.6	67
33	Fragile lifespan expansion by dietary mitohormesis in <i>C. elegans</i> . <i>Aging</i> , <b>2016</b> , 8, 50-61	5.6	11
32	Maple Syrup Decreases TDP-43 Proteotoxicity in a <i>Caenorhabditis elegans</i> Model of Amyotrophic Lateral Sclerosis (ALS). <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 3338-44	5.7	15
31	Mutations in CAPN1 Cause Autosomal-Recessive Hereditary Spastic Paraplegia. <i>American Journal of Human Genetics</i> , <b>2016</b> , 98, 1038-1046	11	70
30	Tau hyperphosphorylation and deregulation of calcineurin in mouse models of Huntington's disease. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 86-99	5.6	43
29	G3BP1 promotes stress-induced RNA granule interactions to preserve polyadenylated mRNA. <i>Journal of Cell Biology</i> , <b>2015</b> , 209, 73-84	7.3	65
28	Neurodegeneration in <i>C. elegans</i> models of ALS requires TIR-1/Sarm1 immune pathway activation in neurons. <i>Nature Communications</i> , <b>2015</b> , 6, 7319	17.4	43
27	TDP-43 toxicity proceeds via calcium dysregulation and necrosis in aging <i>Caenorhabditis elegans</i> motor neurons. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 12093-103	6.6	30
26	Worming forward: amyotrophic lateral sclerosis toxicity mechanisms and genetic interactions in <i>Caenorhabditis elegans</i> . <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 85	4.5	43
25	Deciphering genetic interactions between ALS genes using <i>C. elegans</i> . <i>Worm</i> , <b>2014</b> , 3, e29047		2

24	Heritable transmission of stress resistance by high dietary glucose in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004346	6	55
23	Insulin signaling in the aging of healthy and proteotoxically stressed mechanosensory neurons. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 212	4.5	8
22	The Wnt receptor Ryk reduces neuronal and cell survival capacity by repressing FOXO activity during the early phases of mutant huntingtin pathogenicity. <i>PLoS Biology</i> , <b>2014</b> , 12, e1001895	9.7	37
21	Fishing for causes and cures of motor neuron disorders. <i>DMM Disease Models and Mechanisms</i> , <b>2014</b> , 7, 799-809	4.1	47
20	Reduction of polyglutamine toxicity by TDP-43, FUS and progranulin in Huntington's disease models. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 782-94	5.6	28
19	Pharmacological reduction of ER stress protects against TDP-43 neuronal toxicity in vivo. <i>Neurobiology of Disease</i> , <b>2013</b> , 55, 64-75	7.5	97
18	Evaluation of longevity enhancing compounds against transactive response DNA-binding protein-43 neuronal toxicity. <i>Neurobiology of Aging</i> , <b>2013</b> , 34, 2175-82	5.6	16
17	Deletion of C9ORF72 results in motor neuron degeneration and stress sensitivity in <i>C. elegans</i> . <i>PLoS ONE</i> , <b>2013</b> , 8, e83450	3.7	135
16	Large-scale functional RNAi screen in <i>C. elegans</i> identifies genes that regulate the dysfunction of mutant polyglutamine neurons. <i>BMC Genomics</i> , <b>2012</b> , 13, 91	4.5	46
15	Glucose delays age-dependent proteotoxicity. <i>Aging Cell</i> , <b>2012</b> , 11, 856-66	9.9	30
14	Integration of I $\kappa$ B $\alpha$ enin, sirtuin, and FOXO signaling protects from mutant huntingtin toxicity. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 12630-40	6.6	49
13	Methylene blue protects against TDP-43 and FUS neuronal toxicity in <i>C. elegans</i> and <i>D. rerio</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e42117	3.7	75
12	TDP-1/TDP-43 regulates stress signaling and age-dependent proteotoxicity in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002806	6	55
11	Mutant TDP-43 and FUS cause age-dependent paralysis and neurodegeneration in <i>C. elegans</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e31321	3.7	71
10	Restless legs syndrome-associated MEIS1 risk variant influences iron homeostasis. <i>Annals of Neurology</i> , <b>2011</b> , 70, 170-5	9.4	66
9	SIRT2 inhibition achieves neuroprotection by decreasing sterol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 7927-32	11.5	255
8	Cross-talk between canonical Wnt signaling and the sirtuin-FoxO longevity pathway to protect against muscular pathology induced by mutant PABPN1 expression in <i>C. elegans</i> . <i>Neurobiology of Disease</i> , <b>2010</b> , 38, 425-33	7.5	17
7	Sirtuin inhibition protects from the polyalanine muscular dystrophy protein PABPN1. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 2108-17	5.6	58

6	Huntingtin-interacting protein 1 influences worm and mouse presynaptic function and protects <i>Caenorhabditis elegans</i> neurons against mutant polyglutamine toxicity. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 11056-64	6.6	52
5	Cystamine and cysteamine increase brain levels of BDNF in Huntington disease via HSJ1b and transglutaminase. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 1410-24	15.9	176
4	Resveratrol rescues mutant polyglutamine cytotoxicity in nematode and mammalian neurons. <i>Nature Genetics</i> , <b>2005</b> , 37, 349-50	36.3	433
3	Genetic and pharmacological suppression of polyglutamine-dependent neuronal dysfunction in <i>Caenorhabditis elegans</i> . <i>Journal of Molecular Neuroscience</i> , <b>2004</b> , 23, 61-8	3.3	11
2	Expanded polyglutamines in <i>Caenorhabditis elegans</i> cause axonal abnormalities and severe dysfunction of PLM mechanosensory neurons without cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 13318-23	11.5	168
1	Modifications of insulin-like growth factor binding proteins and their role in controlling IGF actions. <i>Endocrine Journal</i> , <b>1998</b> , 45 Suppl, S1-8	2.9	32