J Alex Parker

List of Publications by Citations

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	Resveratrol rescues mutant polyglutamine cytotoxicity in nematode and mammalian neurons. *Nature Genetics*, **2005**, 37, 349-50	36.3	433
58	SIRT2 inhibition achieves neuroprotection by decreasing sterol biosynthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 7927-32	11.5	255
57	C. elegans neurons jettison protein aggregates and mitochondria under neurotoxic stress. *Nature*, **2017**, 542, 367-371	50.4	176
56	Cystamine and cysteamine increase brain levels of BDNF in Huntington disease via HSJ1b and transglutaminase. *Journal of Clinical Investigation*, **2006**, 116, 1410-24	15.9	176
55	Expanded polyglutamines in Caenorhabditis elegans cause axonal abnormalities and severe dysfunction of PLM mechanosensory neurons without cell death. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 13318-23	11.5	168
54	Deletion of C9ORF72 results in motor neuron degeneration and stress sensitivity in C. elegans. *PLoS ONE*, **2013**, 8, e83450	3.7	135
53	Pharmacological reduction of ER stress protects against TDP-43 neuronal toxicity in vivo. *Neurobiology of Disease*, **2013**, 55, 64-75	7.5	97
52	Methylene blue protects against TDP-43 and FUS neuronal toxicity in C. elegans and D. rerio. *PLoS ONE*, **2012**, 7, e42117	3.7	75
51	Mutant TDP-43 and FUS cause age-dependent paralysis and neurodegeneration in C. elegans. *PLoS ONE*, **2012**, 7, e31321	3.7	71
50	Mutations in CAPN1 Cause Autosomal-Recessive Hereditary Spastic Paraplegia. *American Journal of Human Genetics*, **2016**, 98, 1038-1046	11	70
49	AMPK activation protects from neuronal dysfunction and vulnerability across nematode, cellular and mouse models of Huntington's disease. *Human Molecular Genetics*, **2016**, 25, 1043-58	5.6	67
48	Restless legs syndrome-associated MEIS1 risk variant influences iron homeostasis. *Annals of Neurology*, **2011**, 70, 170-5	9.4	66
47	G3BP1 promotes stress-induced RNA granule interactions to preserve polyadenylated mRNA. *Journal of Cell Biology*, **2015**, 209, 73-84	7.3	65
46	Sirtuin inhibition protects from the polyalanine muscular dystrophy protein PABPN1. *Human Molecular Genetics*, **2008**, 17, 2108-17	5.6	58
45	Heritable transmission of stress resistance by high dietary glucose in Caenorhabditis elegans. *PLoS Genetics*, **2014**, 10, e1004346	6	55
44	TDP-1/TDP-43 regulates stress signaling and age-dependent proteotoxicity in Caenorhabditis elegans. *PLoS Genetics*, **2012**, 8, e1002806	6	55
43	Neuroleptics as therapeutic compounds stabilizing neuromuscular transmission in amyotrophic lateral sclerosis. *JCI Insight*, **2017**, 2,	9.9	55

42	Pleiotropic Effects of mTOR and Autophagy During Development and Aging. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 192	5.7	52
41	Huntingtin-interacting protein 1 influences worm and mouse presynaptic function and protects Caenorhabditis elegans neurons against mutant polyglutamine toxicity. *Journal of Neuroscience*, **2007**, 27, 11056-64	6.6	52
40	Integration of Ecatenin, sirtuin, and FOXO signaling protects from mutant huntingtin toxicity. *Journal of Neuroscience*, **2012**, 32, 12630-40	6.6	49
39	Fishing for causes and cures of motor neuron disorders. *DMM Disease Models and Mechanisms*, **2014** , 7, 799-809	4.1	47
38	Large-scale functional RNAi screen in C. elegans identifies genes that regulate the dysfunction of mutant polyglutamine neurons. *BMC Genomics*, **2012**, 13, 91	4.5	46
37	Tau hyperphosphorylation and deregulation of calcineurin in mouse models of Huntington's disease. *Human Molecular Genetics*, **2015**, 24, 86-99	5.6	43
36	Neurodegeneration in C. elegans models of ALS requires TIR-1/Sarm1 immune pathway activation in neurons. *Nature Communications*, **2015**, 6, 7319	17.4	43
35	Worming forward: amyotrophic lateral sclerosis toxicity mechanisms and genetic interactions in Caenorhabditis elegans. *Frontiers in Genetics*, **2014**, 5, 85	4.5	43
34	The Wnt receptor Ryk reduces neuronal and cell survival capacity by repressing FOXO activity during the early phases of mutant huntingtin pathogenicity. *PLoS Biology*, **2014**, 12, e1001895	9.7	37
33	Modifications of insulin-like growth factor binding proteins and their role in controlling IGF actions. *Endocrine Journal*, **1998**, 45 Suppl, S1-8	2.9	32
32	TDP-43 toxicity proceeds via calcium dysregulation and necrosis in aging Caenorhabditis elegans motor neurons. *Journal of Neuroscience*, **2014**, 34, 12093-103	6.6	30
31	Glucose delays age-dependent proteotoxicity. *Aging Cell*, **2012**, 11, 856-66	9.9	30
30	Reduction of polyglutamine toxicity by TDP-43, FUS and progranulin in Huntington's disease models. *Human Molecular Genetics*, **2013**, 22, 782-94	5.6	28
29	The stress response factor daf-16/FOXO is required for multiple compound families to prolong the function of neurons with Huntington's disease. *Scientific Reports*, **2017**, 7, 4014	4.9	20
28	Nicotinamide-N-methyltransferase controls behavior, neurodegeneration and lifespan by regulating neuronal autophagy. *PLoS Genetics*, **2018**, 14, e1007561	6	19
27	Cross-talk between canonical Wnt signaling and the sirtuin-FoxO longevity pathway to protect against muscular pathology induced by mutant PABPN1 expression in C. elegans. *Neurobiology of Disease*, **2010**, 38, 425-33	7.5	17
26	Conserved pharmacological rescue of hereditary spastic paraplegia-related phenotypes across model organisms. *Human Molecular Genetics*, **2016**, 25, 1088-99	5.6	16
25	Evaluation of longevity enhancing compounds against transactive response DNA-binding protein-43 neuronal toxicity. *Neurobiology of Aging*, **2013**, 34, 2175-82	5.6	16

24	The Novel Small Molecule TRVA242 Stabilizes Neuromuscular Junction Defects in Multiple Animal Models of Amyotrophic Lateral Sclerosis. *Neurotherapeutics*, **2019**, 16, 1149-1166	6.4	15
23	Rescue of ATXN3 neuronal toxicity in by chemical modification of endoplasmic reticulum stress. *DMM Disease Models and Mechanisms*, **2017**, 10, 1465-1480	4.1	15
22	Maple Syrup Decreases TDP-43 Proteotoxicity in a Caenorhabditis elegans Model of Amyotrophic Lateral Sclerosis (ALS). *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3338-44	5.7	15
21	Morphological remodeling of neurons during aging is modified by compromised protein homeostasis. *Npj Aging and Mechanisms of Disease*, **2016**, 2,	5.5	13
20	A rapid chemical-genetic screen utilizing impaired movement phenotypes in C. elegans: Input into genetics of neurodevelopmental disorders. *Experimental Neurology*, **2017**, 293, 101-114	5.7	12
19	Simple animal models for amyotrophic lateral sclerosis drug discovery. *Expert Opinion on Drug Discovery*, **2016**, 11, 797-804	6.2	12
18	Genetic and pharmacological suppression of polyglutamine-dependent neuronal dysfunction in Caenorhabditis elegans. *Journal of Molecular Neuroscience*, **2004**, 23, 61-8	3.3	11
17	Fragile lifespan expansion by dietary mitohormesis in C. elegans. *Aging*, **2016**, 8, 50-61	5.6	11
16	Worms on the spectrum - C. elegans models in autism research. *Experimental Neurology*, **2018**, 299, 199-206	5.7	9
15	FET proteins regulate lifespan and neuronal integrity. *Scientific Reports*, **2016**, 6, 25159	4.9	9
14	Insulin signaling in the aging of healthy and proteotoxically stressed mechanosensory neurons. *Frontiers in Genetics*, **2014**, 5, 212	4.5	8
13	RNA-Based Therapy Utilizing Oculopharyngeal Muscular Dystrophy Transcript Knockdown and Replacement. *Molecular Therapy - Nucleic Acids*, **2019**, 15, 12-25	10.7	6
12	TDP-43 stabilizes G3BP1 mRNA: relevance to amyotrophic lateral sclerosis/frontotemporal dementia. *Brain*, **2021**,	11.2	6
11	Valproic acid is protective in cellular and worm models of oculopharyngeal muscular dystrophy. *Neurology*, **2018**, 91, e551-e561	6.5	4
10	Phosphoglycolate phosphatase homologs act as glycerol-3-phosphate phosphatase to control stress and healthspan in C. elegans.. *Nature Communications*, **2022**, 13, 177	17.4	4
9	Expression of human Bcl-xL (Ser49) and (Ser62) mutants in Caenorhabditis elegans causes germline defects and aneuploidy. *PLoS ONE*, **2017**, 12, e0177413	3.7	3
8	Chromatin remodeller CHD7 is required for GABAergic neuron development by promoting PAQR3 expression. *EMBO Reports*, **2021**, 22, e50958	6.5	3
7	Deciphering genetic interactions between ALS genes using C. elegans. *Worm*, **2014**, 3, e29047		2

6	Modulating the endoplasmic reticulum stress response attenuates neurodegeneration in a model of spinal muscular atrophy. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	1
5	Small Molecule Rescue of ATXN3 Toxicity in C. elegans via TFEB/HLH-30. *Neurotherapeutics*, **2021**, 18, 1151-1165	6.4	1
4	Chemical and genetic rescue of in vivo progranulin-deficient lysosomal and autophagic defects. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
3	Overexpression of FKH-2/FOXG1 is neuroprotective in a C. elegans model of Machado-Joseph disease. *Experimental Neurology*, **2021**, 337, 113544	5.7	1
2	TMEM106B, an unexpected point of contact between FTD, ageing and a hypomyelination disorder. *Brain*, **2020**, 143, 1628-1631	11.2	
1	Methods to Investigate the Molecular Basis of Progranulin Action on Neurons In Vivo Using Caenorhabditis elegans. *Methods in Molecular Biology*, **2018**, 1806, 179-191	1.4	