

# Kim A Caldwell

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7937826/kim-a-caldwell-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

99  
papers

7,699  
citations

43  
h-index

87  
g-index

111  
ext. papers

8,647  
ext. citations

8  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
99	Alpha-synuclein blocks ER-Golgi traffic and Rab1 rescues neuron loss in Parkinson's models. <i>Science</i> , <b>2006</b> , 313, 324-8	33.3	1084
98	arrow encodes an LDL-receptor-related protein essential for Wingless signalling. <i>Nature</i> , <b>2000</b> , 407, 527-30	30.4	712
97	Alpha-synuclein is part of a diverse and highly conserved interaction network that includes PARK9 and manganese toxicity. <i>Nature Genetics</i> , <b>2009</b> , 41, 308-15	36.3	451
96	The Parkinson's disease protein alpha-synuclein disrupts cellular Rab homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 145-50	11.5	415
95	Functional links between A $\beta$ toxicity, endocytic trafficking, and Alzheimer's disease risk factors in yeast. <i>Science</i> , <b>2011</b> , 334, 1241-5	33.3	279
94	Hypothesis-based RNAi screening identifies neuroprotective genes in a Parkinson's disease model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 728-33	11.5	238
93	Torsin-mediated protection from cellular stress in the dopaminergic neurons of <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 3801-12	6.6	229
92	Lysosomal impairment in Parkinson's disease. <i>Movement Disorders</i> , <b>2013</b> , 28, 725-32	7	228
91	Deletion of the ubiquitin ligase CHIP leads to the accumulation, but not the aggregation, of both endogenous phospho- and caspase-3-cleaved tau species. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 6985-96	6.6	202
90	Lysosomal enzyme cathepsin D protects against alpha-synuclein aggregation and toxicity. <i>Molecular Brain</i> , <b>2008</b> , 1, 17	4.5	191
89	Yeast reveal a "druggable" Rsp5/Nedd4 network that ameliorates $\beta$ synuclein toxicity in neurons. <i>Science</i> , <b>2013</b> , 342, 979-83	33.3	188
88	Using <i>Caenorhabditis elegans</i> to probe toxicity of 1-alkyl-3-methylimidazolium chloride based ionic liquids. <i>Chemical Communications</i> , <b>2004</b> , 668-9	5.8	165
87	Potentiated Hsp104 variants antagonize diverse proteotoxic misfolding events. <i>Cell</i> , <b>2014</b> , 156, 170-82	56.2	161
86	Compounds from an unbiased chemical screen reverse both ER-to-Golgi trafficking defects and mitochondrial dysfunction in Parkinson's disease models. <i>DMM Disease Models and Mechanisms</i> , <b>2010</b> , 3, 194-208	4.1	147
85	Dopamine induces soluble $\beta$ synuclein oligomers and nigrostriatal degeneration. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 1560-1568	25.5	125
84	Clioquinol promotes the degradation of metal-dependent amyloid- $\beta$ (A $\beta$ ) oligomers to restore endocytosis and ameliorate A $\beta$ toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 4013-8	11.5	124
83	Rapid selection of cyclic peptides that reduce alpha-synuclein toxicity in yeast and animal models. <i>Nature Chemical Biology</i> , <b>2009</b> , 5, 655-63	11.7	117

82	Suppression of polyglutamine-induced protein aggregation in <i>Caenorhabditis elegans</i> by torsin proteins. <i>Human Molecular Genetics</i> , <b>2003</b> , 12, 307-19	5.6	115
81	Induced premature G2/M-phase transition in pachytene spermatocytes includes events unique to meiosis. <i>Developmental Biology</i> , <b>1995</b> , 169, 557-67	3.1	112
80	Inhibitors of LRRK2 kinase attenuate neurodegeneration and Parkinson-like phenotypes in <i>Caenorhabditis elegans</i> and <i>Drosophila</i> Parkinson's disease models. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 3933-42	5.6	107
79	Role for NudC, a dynein-associated nuclear movement protein, in mitosis and cytokinesis. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 1991-2003	5.3	92
78	<i>C. elegans</i> as a model organism to investigate molecular pathways involved with Parkinson's disease. <i>Developmental Dynamics</i> , <b>2010</b> , 239, 1282-95	2.9	91
77	Differential neuroprotective effects of 14-3-3 proteins in models of Parkinson's disease. <i>Cell Death and Disease</i> , <b>2010</b> , 1, e2	9.8	89
76	The early-onset torsion dystonia-associated protein, torsinA, is a homeostatic regulator of endoplasmic reticulum stress response. <i>Human Molecular Genetics</i> , <b>2010</b> , 19, 3502-15	5.6	79
75	TorsinA participates in endoplasmic reticulum-associated degradation. <i>Nature Communications</i> , <b>2011</b> , 2, 393	17.4	79
74	The early-onset torsion dystonia-associated protein, torsinA, is a homeostatic regulator of endoplasmic reticulum stress response. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 1201-1201	5.6	78
73	Calcineurin determines toxic versus beneficial responses to $\beta$ synuclein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3544-52	11.5	76
72	Mitochondrial dysfunction, oxidative stress, and neurodegeneration elicited by a bacterial metabolite in a <i>C. elegans</i> Parkinson's model. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e984	9.8	73
71	The effects of pdr1, djr1.1 and pink1 loss in manganese-induced toxicity and the role of $\beta$ synuclein in <i>C. elegans</i> . <i>Metallomics</i> , <b>2014</b> , 6, 476-90	4.5	71
70	Acetaminophen attenuates dopamine neuron degeneration in animal models of Parkinson's disease. <i>Neuroscience Letters</i> , <b>2008</b> , 439, 129-33	3.3	66
69	Epileptic-like convulsions associated with LIS-1 in the cytoskeletal control of neurotransmitter signaling in <i>Caenorhabditis elegans</i> . <i>Human Molecular Genetics</i> , <b>2004</b> , 13, 2043-59	5.6	65
68	VPS41, a protein involved in lysosomal trafficking, is protective in <i>Caenorhabditis elegans</i> and mammalian cellular models of Parkinson's disease. <i>Neurobiology of Disease</i> , <b>2010</b> , 37, 330-8	7.5	64
67	Different 8-hydroxyquinolines protect models of TDP-43 protein, $\beta$ synuclein, and polyglutamine proteotoxicity through distinct mechanisms. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 4107-20	5.4	63
66	Dysregulation of the Mitochondrial Unfolded Protein Response Induces Non-Apoptotic Dopaminergic Neurodegeneration in Models of Parkinson's Disease. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 11085-11100	6.6	60
65	Identification of novel ATP13A2 interactors and their role in $\beta$ synuclein misfolding and toxicity. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 3785-94	5.6	59

64	Generation of stable transgenic <i>C. elegans</i> using microinjection. <i>Journal of Visualized Experiments</i> , <b>2008</b> ,	1.6	58
63	The glycolytic enzyme, GPI, is a functionally conserved modifier of dopaminergic neurodegeneration in Parkinson's models. <i>Cell Metabolism</i> , <b>2014</b> , 20, 145-57	24.6	56
62	Functional analysis of VPS41-mediated neuroprotection in <i>Caenorhabditis elegans</i> and mammalian models of Parkinson's disease. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 2142-53	6.6	53
61	Low-dose bafilomycin attenuates neuronal cell death associated with autophagy-lysosome pathway dysfunction. <i>Journal of Neurochemistry</i> , <b>2010</b> , 114, 1193-204	6	50
60	Phosphatidylethanolamine deficiency disrupts $\beta$ synuclein homeostasis in yeast and worm models of Parkinson disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3976-85	11.5	48
59	Chemical enhancement of torsinA function in cell and animal models of torsion dystonia. <i>DMM Disease Models and Mechanisms</i> , <b>2010</b> , 3, 386-96	4.1	47
58	The early-onset torsion dystonia-associated protein, torsinA, displays molecular chaperone activity in vitro. <i>Cell Stress and Chaperones</i> , <b>2010</b> , 15, 605-17	4	46
57	Evolutionarily conserved nuclear migration genes required for early embryonic development in <i>Caenorhabditis elegans</i> . <i>Development Genes and Evolution</i> , <b>2001</b> , 211, 434-41	1.8	45
56	Protective role of DNJ-27/ERdj5 in <i>Caenorhabditis elegans</i> models of human neurodegenerative diseases. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 20, 217-35	8.4	40
55	Investigating bacterial sources of toxicity as an environmental contributor to dopaminergic neurodegeneration. <i>PLoS ONE</i> , <b>2009</b> , 4, e7227	3.7	39
54	<i>C. elegans</i> as a model system to accelerate discovery for Parkinson disease. <i>Current Opinion in Genetics and Development</i> , <b>2017</b> , 44, 102-109	4.9	38
53	Genetic and Pharmacological Discovery for Alzheimer's Disease Using <i>Caenorhabditis elegans</i> . <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 2596-2606	5.7	35
52	Genetic interactions among cortical malformation genes that influence susceptibility to convulsions in <i>C. elegans</i> . <i>Brain Research</i> , <b>2006</b> , 1120, 23-34	3.7	35
51	A predictable worm: application of <i>Caenorhabditis elegans</i> for mechanistic investigation of movement disorders. <i>Neurotherapeutics</i> , <b>2012</b> , 9, 393-404	6.4	32
50	RTCB-1 mediates neuroprotection via XBP-1 mRNA splicing in the unfolded protein response pathway. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 16076-85	6.6	30
49	A bacterial metabolite induces glutathione-tractable proteostatic damage, proteasomal disturbances, and PINK1-dependent autophagy in <i>C. elegans</i> . <i>Cell Death and Disease</i> , <b>2015</b> , 6, e1908	9.8	28
48	Modeling neurodegeneration in. <i>DMM Disease Models and Mechanisms</i> , <b>2020</b> , 13,	4.1	28
47	The Small GTPase RAC1/CED-10 Is Essential in Maintaining Dopaminergic Neuron Function and Survival Against $\beta$ synuclein-Induced Toxicity. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 7533-7552	6.2	25

46	Structural features and chaperone activity of the NudC protein family. <i>Journal of Molecular Biology</i> , <b>2011</b> , 409, 722-41	6.5	25
45	Caenorhabditis elegans as a model system for identifying effectors of $\beta$ synuclein misfolding and dopaminergic cell death associated with Parkinson's disease. <i>Methods</i> , <b>2011</b> , 53, 220-5	4.6	24
44	Application of a C. elegans dopamine neuron degeneration assay for the validation of potential Parkinson's disease genes. <i>Journal of Visualized Experiments</i> , <b>2008</b> ,	1.6	24
43	Modeling dopamine neuron degeneration in Caenorhabditis elegans. <i>Methods in Molecular Biology</i> , <b>2011</b> , 793, 129-48	1.4	24
42	Found in Translation: The Utility of Alpha-Synuclein Models of Parkinson's Disease. <i>Brain Sciences</i> , <b>2019</b> , 9,	3.4	21
41	TorsinA rescues ER-associated stress and locomotive defects in C. elegans models of ALS. <i>DMM Disease Models and Mechanisms</i> , <b>2014</b> , 7, 233-43	4.1	21
40	Cyclized NDGA modifies dynamic $\beta$ synuclein monomers preventing aggregation and toxicity. <i>Scientific Reports</i> , <b>2019</b> , 9, 2937	4.9	20
39	Alpha-synuclein inhibits Snx3-retromer-mediated retrograde recycling of iron transporters in S. cerevisiae and C. elegans models of Parkinson's disease. <i>Human Molecular Genetics</i> , <b>2018</b> , 27, 1514-1532 <sup>5.6</sup>	5.6	20
38	The microtubule-associated protein, NUD-1, exhibits chaperone activity in vitro. <i>Cell Stress and Chaperones</i> , <b>2009</b> , 14, 95-103	4	20
37	Animal models for drug discovery in dystonia. <i>Expert Opinion on Drug Discovery</i> , <b>2008</b> , 3, 83-97	6.2	20
36	Phenazine derivatives cause proteotoxicity and stress in C. elegans. <i>Neuroscience Letters</i> , <b>2015</b> , 584, 23-7.3	7.3	17
35	Valproic acid ameliorates C. elegans dopaminergic neurodegeneration with implications for ERK-MAPK signaling. <i>Neuroscience Letters</i> , <b>2013</b> , 541, 116-9	3.3	17
34	Pharmacogenetic analysis reveals a post-developmental role for Rac GTPases in Caenorhabditis elegans GABAergic neurotransmission. <i>Genetics</i> , <b>2009</b> , 183, 1357-72	4	17
33	Gene-by-environment interactions that disrupt mitochondrial homeostasis cause neurodegeneration in C. elegans Parkinson's models. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 555	9.8	16
32	NCEH-1 modulates cholesterol metabolism and protects against $\beta$ synuclein toxicity in a C. elegans model of Parkinson's disease. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 3823-3836	5.6	14
31	ApoE-associated modulation of neuroprotection from A $\beta$ -mediated neurodegeneration in transgenic. <i>DMM Disease Models and Mechanisms</i> , <b>2019</b> , 12,	4.1	14
30	Ubiquitin conjugating enzymes participate in polyglutamine protein aggregation. <i>BMC Cell Biology</i> , <b>2007</b> , 8, 32		14
29	Amelioration of Alzheimer's disease pathology by mitophagy inducers identified via machine learning and a cross-species workflow.. <i>Nature Biomedical Engineering</i> , <b>2022</b> , 6, 76-93	19	14

28	Distinct functional roles of Vps41-mediated neuroprotection in Alzheimer's and Parkinson's disease models of neurodegeneration. <i>Human Molecular Genetics</i> , <b>2018</b> , 27, 4176-4193	5.6	13
27	Dihydropyrimidine-Thiones and Clioquinol Synergize To Target $\beta$ Amyloid Cellular Pathologies through a Metal-Dependent Mechanism. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 2039-2055	5.7	12
26	Traversing a wormhole to combat Parkinson's disease. <i>DMM Disease Models and Mechanisms</i> , <b>2008</b> , 1, 32-6	4.1	12
25	Paradigms for pharmacological characterization of <i>C. elegans</i> synaptic transmission mutants. <i>Journal of Visualized Experiments</i> , <b>2008</b> ,	1.6	12
24	Genetic Defects in Mitochondrial Dynamics in Impact Ultraviolet C Radiation- and 6-hydroxydopamine-Induced Neurodegeneration. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
23	Chemical Compensation of Mitochondrial Phospholipid Depletion in Yeast and Animal Models of Parkinson's Disease. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164465	3.7	7
22	An animal model to discern torsin function: suppression of protein aggregation in <i>C. elegans</i> . <i>Advances in Neurology</i> , <b>2004</b> , 94, 79-85		7
21	The Prevalence and Distribution of Neurodegenerative Compound-Producing Soil Streptomyces spp. <i>Scientific Reports</i> , <b>2016</b> , 6, 22566	4.9	6
20	A genetic strategy for differential screening of meiotic germ-cell cDNA libraries. <i>Molecular Reproduction and Development</i> , <b>1996</b> , 43, 403-13	2.6	6
19	Therapeutic genetic variation revealed in diverse Hsp104 homologs. <i>ELife</i> , <b>2020</b> , 9,	8.9	6
18	A conformational switch driven by phosphorylation regulates the activity of the evolutionarily conserved SNARE Ykt6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
17	No Country for Old Worms: A Systematic Review of the Application of to Investigate a Bacterial Source of Environmental Neurotoxicity in Parkinson's Disease. <i>Metabolites</i> , <b>2018</b> , 8,	5.6	5
16	Invertebrate Models of Dystonia. <i>Current Neuropharmacology</i> , <b>2013</b> , 11, 16-29	7.6	4
15	Conserved nicotine-activated neuroprotective pathways involve mitochondrial stress. <i>IScience</i> , <b>2021</b> , 24, 102140	6.1	4
14	Tuning Hsp104 specificity to selectively detoxify $\beta$ synuclein		3
13	Neurodegenerative VPS41 variants inhibit HOPS function and mTORC1-dependent TFEB/TFE3 regulation. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13258	12	3
12	Invertebrate models of dystonia. <i>Current Neuropharmacology</i> , <b>2013</b> , 11, 16-29	7.6	2
11	The Nematode, <i>Caenorhabditis elegans</i> , as an Emerging Model for Investigating Epilepsy. <i>Neuromethods</i> , <b>2009</b> , 1-25	0.4	1

10	Therapeutic genetic variation revealed in diverse Hsp104 homologs		1
9	Vacuolar protein sorting protein 41 (VPS41) at an intersection of endosomal traffic in neurodegenerative disease. <i>Neural Regeneration Research</i> , <b>2019</b> , 14, 1210-1212	4.5	1
8	Use of <i>C. elegans</i> to Model Human Movement Disorders <b>2005</b> , 111-126		1
7	Bcl-xL Is Required by Primary Hippocampal Neurons during Development to Support Local Energy Metabolism at Neurites. <i>Biology</i> , <b>2021</b> , 10,	4.9	1
6	Use of <i>Caenorhabditis elegans</i> to Model Human Movement Disorders <b>2015</b> , 97-116		
5	Disinfecting dystonia? Drug discovery using worms identifies an antibiotic as a neuroprotective lead molecule for movement disorders. <i>Future Neurology</i> , <b>2010</b> , 5, 473-476	1.5	
4	Investigating Molecular Chaperone Activity Associated with Human TorsinA. <i>FASEB Journal</i> , <b>2009</b> , 23, 673.1	0.9	
3	Cell Culture to Investigate Neurotoxicity and Neurodegeneration Utilizing <i>Caenorhabditis elegans</i> . <i>Neuromethods</i> , <b>2011</b> , 129-143	0.4	
2	Methodological Strategies to Evaluate Functional Effectors Related to Parkinson Disease Through Application of <i>Caenorhabditis elegans</i> Models. <i>Neuromethods</i> , <b>2011</b> , 31-53	0.4	
1	TorsinA rescues ER-associated stress and locomotive defects in <i>C. elegans</i> models of ALS. <i>Journal of Cell Science</i> , <b>2014</b> , 127, e1-e1	5.3	