Michael Ailion

List of Publications by Citations

43 papers	2,547 citations	23 h-index	50 g-index
56 ext. papers	3,057 ext. citations	6.9 avg, IF	4.65 L-index

#	Paper	IF	Citations
43	A PDK1 homolog is necessary and sufficient to transduce AGE-1 PI3 kinase signals that regulate diapause in Caenorhabditis elegans. *Genes and Development*, **1999**, 13, 1438-52	12.6	307
42	Improved Mos1-mediated transgenesis in C. elegans. *Nature Methods*, **2012**, 9, 117-8	21.6	266
41	A phylogeny and molecular barcodes for Caenorhabditis, with numerous new species from rotting fruits. *BMC Evolutionary Biology*, **2011**, 11, 339	3	239
40	UNC-31 (CAPS) is required for dense-core vesicle but not synaptic vesicle exocytosis in Caenorhabditis elegans. *Journal of Neuroscience*, **2007**, 27, 6150-62	6.6	191
39	Parallel evolution of domesticated Caenorhabditis species targets pheromone receptor genes. *Nature*, **2011**, 477, 321-5	50.4	182
38	Dauer formation induced by high temperatures in Caenorhabditis elegans. *Genetics*, **2000**, 156, 1047-67	4	121
37	A single regulatory gene integrates control of vitamin B12 synthesis and propanediol degradation. *Journal of Bacteriology*, **1992**, 174, 2253-66	3.5	109
36	A novel sperm-delivered toxin causes late-stage embryo lethality and transmission ratio distortion in C. elegans. *PLoS Biology*, **2011**, 9, e1001115	9.7	108
35	Neurosecretory control of aging in Caenorhabditis elegans. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 7394-7	11.5	97
34	egl-4 acts through a transforming growth factor-beta/SMAD pathway in Caenorhabditis elegans to regulate multiple neuronal circuits in response to sensory cues. *Genetics*, **2000**, 156, 123-41	4	86
33	Neuron-specific proteotoxicity of mutant ataxin-3 in C. elegans: rescue by the DAF-16 and HSF-1 pathways. *Human Molecular Genetics*, **2011**, 20, 2996-3009	5.6	74
32	Two global regulatory systems (Crp and Arc) control the cobalamin/propanediol regulon of Salmonella typhimurium. *Journal of Bacteriology*, **1993**, 175, 7200-8	3.5	70
31	Trio's Rho-specific GEF domain is the missing Galpha q effector in C. elegans. *Genes and Development*, **2007**, 21, 2731-46	12.6	61
30	NCR-1 and NCR-2, the C. elegans homologs of the human Niemann-Pick type C1 disease protein, function upstream of DAF-9 in the dauer formation pathways. *Development (Cambridge)*, **2004**, 131, 5741-52	6.6	60
29	Isolation and characterization of high-temperature-induced Dauer formation mutants in Caenorhabditis elegans. *Genetics*, **2003**, 165, 127-44	4	57
28	Functional genomics and biochemical characterization of the C. elegans orthologue of the Machado-Joseph disease protein ataxin-3. *FASEB Journal*, **2007**, 21, 1126-36	0.9	53
27	C. elegans anaplastic lymphoma kinase ortholog SCD-2 controls dauer formation by modulating TGF-beta signaling. *Current Biology*, **2008**, 18, 1101-9	6.3	51

26	The membrane-associated proteins FCHo and SGIP are allosteric activators of the AP2 clathrin adaptor complex. *ELife*, **2014**, 3,	8.9	49
25	Genetic characterization of the pdu operon: use of 1,2-propanediol in Salmonella typhimurium. *Journal of Bacteriology*, **1997**, 179, 1013-22	3.5	48
24	Two Rab2 interactors regulate dense-core vesicle maturation. *Neuron*, **2014**, 82, 167-80	13.9	41
23	Five promoters integrate control of the cob/pdu regulon in Salmonella typhimurium. *Journal of Bacteriology*, **1995**, 177, 5401-10	3.5	41
22	The EARP Complex and Its Interactor EIPR-1 Are Required for Cargo Sorting to Dense-Core Vesicles. *PLoS Genetics*, **2016**, 12, e1006074	6	29
21	The end of the cob operon: evidence that the last gene (cobT) catalyzes synthesis of the lower ligand of vitamin B12, dimethylbenzimidazole. *Journal of Bacteriology*, **1995**, 177, 1461-9	3.5	26
20	Genetic analysis of dauer formation in Caenorhabditis briggsae. *Genetics*, **2007**, 177, 809-18	4	21
19	The Conserved VPS-50 Protein Functions in Dense-Core Vesicle Maturation and Acidification and Controls Animal Behavior. *Current Biology*, **2016**, 26, 862-71	6.3	18
18	Genetics of extracellular matrix remodeling during organ growth using the Caenorhabditis elegans pharynx model. *Genetics*, **2010**, 186, 969-82	4	18
17	The NCA-1 and NCA-2 Ion Channels Function Downstream of G and Rho To Regulate Locomotion in. *Genetics*, **2017**, 206, 265-282	4	17
16	Pristionchus nematodes occur frequently in diverse rotting vegetal substrates and are not exclusively necromenic, while Panagrellus redivivoides is found specifically in rotting fruits. *PLoS ONE*, **2018**, 13, e0200851	3.7	17
15	Dopamine negatively modulates the NCA ion channels in C. elegans. *PLoS Genetics*, **2017**, 13, e1007032	6	15
14	Ammonium-acetate is sensed by gustatory and olfactory neurons in Caenorhabditis elegans. *PLoS ONE*, **2008**, 3, e2467	3.7	15
13	Repression of the cob operon of Salmonella typhimurium by adenosylcobalamin is influenced by mutations in the pdu operon. *Journal of Bacteriology*, **1997**, 179, 6084-91	3.5	11
12	The dense-core vesicle maturation protein CCCP-1 binds RAB-2 and membranes through its C-terminal domain. *Traffic*, **2017**, 18, 720-732	5.7	10
11	Cytoplasmic-Nuclear Incompatibility Between Wild Isolates of. *G3: Genes, Genomes, Genetics*, **2017**, 7, 823-834	3.2	9
10	The SEK-1 p38 MAP Kinase Pathway Modulates Gq Signaling in. *G3: Genes, Genomes, Genetics*, **2017**, 7, 2979-2989	3.2	5
9	EIPR1 controls dense-core vesicle cargo retention and EARP complex localization in insulin-secreting cells. *Molecular Biology of the Cell*, **2020**, 31, 59-79	3.5	5

8	Modulation of Gq-Rho Signaling by the ERK MAPK Pathway Controls Locomotion in. *Genetics*, **2018**, 209, 523-535	4	4
7	CCDC186 controls dense-core vesicle cargo sorting by exit		4
6	Casein Kinase 1 Stabilizes Mature Axons by Inhibiting Transcription Termination of Ankyrin. *Developmental Cell*, **2020**, 52, 88-103.e18	10.2	3
5	Dopamine receptor DOP-1 engages a sleep pathway to modulate swimming in. *IScience*, **2021**, 24, 102247	6.1	2
4	Hybridization promotes asexual reproduction in Caenorhabditis nematodes. *PLoS Genetics*, **2019**, 15, e1008520	6	2
3	Genetics: Master Regulator or Master of Disguise?. *Current Biology*, **2017**, 27, R844-R847	6.3	1
2	EIPR1 controls dense-core vesicle cargo retention and EARP complex localization in insulin-secreting cells		1
1	Hybridization promotes asexual reproduction in Caenorhabditis nematodes		1