

Michael Ailion

List of Publications by Year in descending order

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41
papers

3,438
citations

257101

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264894

42
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56
all docs

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docs citations

56
times ranked

3571
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Mos1-mediated transgenesis in <i>C. elegans</i> . <i>Nature Methods</i> , 2012, 9, 117-118.	9.0	397
2	A PDK1 homolog is necessary and sufficient to transduce AGE-1 PI3 kinase signals that regulate diapause in <i>Caenorhabditis elegans</i> . <i>Genes and Development</i> , 1999, 13, 1438-1452.	2.7	375
3	A phylogeny and molecular barcodes for <i>Caenorhabditis</i> , with numerous new species from rotting fruits. <i>BMC Evolutionary Biology</i> , 2011, 11, 339.	3.2	317
4	UNC-31 (CAPS) Is Required for Dense-Core Vesicle But Not Synaptic Vesicle Exocytosis in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2007, 27, 6150-6162.	1.7	261
5	Parallel evolution of domesticated <i>Caenorhabditis</i> species targets pheromone receptor genes. <i>Nature</i> , 2011, 477, 321-325.	13.7	225
6	Dauer Formation Induced by High Temperatures in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2000, 156, 1047-1067.	1.2	165
7	A Novel Sperm-Delivered Toxin Causes Late-Stage Embryo Lethality and Transmission Ratio Distortion in <i>C. elegans</i> . <i>PLoS Biology</i> , 2011, 9, e1001115.	2.6	158
8	A single regulatory gene integrates control of vitamin B12 synthesis and propanediol degradation. <i>Journal of Bacteriology</i> , 1992, 174, 2253-2266.	1.0	126
9	Neurosecretory control of aging in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 7394-7397.	3.3	116
10	<i>egl-4</i> Acts Through a Transforming Growth Factor- β /SMAD Pathway in <i>Caenorhabditis elegans</i> to Regulate Multiple Neuronal Circuits in Response to Sensory Cues. <i>Genetics</i> , 2000, 156, 123-141.	1.2	106
11	Neuron-specific proteotoxicity of mutant ataxin-3 in <i>C. elegans</i> : rescue by the DAF-16 and HSF-1 pathways. <i>Human Molecular Genetics</i> , 2011, 20, 2996-3009.	1.4	101
12	Tricochman's Rho-specific GEF domain is the missing G1 \pm effector in <i>C. elegans</i> . <i>Genes and Development</i> , 2007, 21, 2731-2746.	2.7	84
13	Two global regulatory systems (Crp and Arc) control the cobalamin/propanediol regulon of <i>Salmonella typhimurium</i> . <i>Journal of Bacteriology</i> , 1993, 175, 7200-7208.	1.0	80
14	The membrane-associated proteins FCHO and SGIP are allosteric activators of the AP2 clathrin adaptor complex. <i>ELife</i> , 2014, 3, .	2.8	75
15	NCR-1 and NCR-2, the <i>C. elegans</i> homologs of the human Niemann-Pick type C1 disease protein, function upstream of DAF-9 in the dauer formation pathways. <i>Development (Cambridge)</i> , 2004, 131, 5741-5752.	1.2	72
16	Isolation and Characterization of High-Temperature-Induced Dauer Formation Mutants in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2003, 165, 127-144.	1.2	70
17	Two Rab2 Interactors Regulate Dense-Core Vesicle Maturation. <i>Neuron</i> , 2014, 82, 167-180.	3.8	69
18	<i>C. elegans</i> Anaplastic Lymphoma Kinase Ortholog SCD-2 Controls Dauer Formation by Modulating TGF- β Signaling. <i>Current Biology</i> , 2008, 18, 1101-1109.	1.8	66

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19	Functional genomics and biochemical characterization of the <i>C. elegans</i> orthologue of the Machado-Joseph disease protein ataxin-3. <i>FASEB Journal</i> , 2007, 21, 1126-1136.	0.2	62
20	Genetic characterization of the pdu operon: use of 1,2-propanediol in <i>Salmonella typhimurium</i> . <i>Journal of Bacteriology</i> , 1997, 179, 1013-1022.	1.0	57
21	The EARP Complex and Its Interactor EIPR-1 Are Required for Cargo Sorting to Dense-Core Vesicles. <i>PLoS Genetics</i> , 2016, 12, e1006074.	1.5	53
22	Five promoters integrate control of the cob/pdu regulon in <i>Salmonella typhimurium</i> . <i>Journal of Bacteriology</i> , 1995, 177, 5401-5410.	1.0	48
23	Genetic Analysis of Dauer Formation in <i>Caenorhabditis briggsae</i> . <i>Genetics</i> , 2007, 177, 809-818.	1.2	32
24	Pristionchus nematodes occur frequently in diverse rotting vegetal substrates and are not exclusively necromenic, while <i>Panagrellus redivivoides</i> is found specifically in rotting fruits. <i>PLoS ONE</i> , 2018, 13, e0200851.	1.1	32
25	The end of the cob operon: evidence that the last gene (cobT) catalyzes synthesis of the lower ligand of vitamin B12, dimethylbenzimidazole. <i>Journal of Bacteriology</i> , 1995, 177, 1461-1469.	1.0	29
26	The NCA-1 and NCA-2 Ion Channels Function Downstream of Gq and Rho To Regulate Locomotion in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2017, 206, 265-282.	1.2	26
27	The Conserved VPS-50 Protein Functions in Dense-Core Vesicle Maturation and Acidification and Controls Animal Behavior. <i>Current Biology</i> , 2016, 26, 862-871.	1.8	25
28	Dopamine negatively modulates the NCA ion channels in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2017, 13, e1007032.	1.5	24
29	Genetics of Extracellular Matrix Remodeling During Organ Growth Using the <i>Caenorhabditis elegans</i> Pharynx Model. <i>Genetics</i> , 2010, 186, 969-982.	1.2	22
30	Ammonium-Acetate Is Sensed by Gustatory and Olfactory Neurons in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2008, 3, e2467.	1.1	21
31	The dense-core vesicle maturation protein <i>CCCP-1</i> binds <i>RAB-2</i> and membranes through its C-terminal domain. <i>Traffic</i> , 2017, 18, 720-732.	1.3	15
32	Casein Kinase 1 γ Stabilizes Mature Axons by Inhibiting Transcription Termination of Ankyrin. <i>Developmental Cell</i> , 2020, 52, 88-103.e18.	3.1	15
33	Modulation of Gq-Rho Signaling by the ERK MAPK Pathway Controls Locomotion in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2018, 209, 523-535.	1.2	14
34	EIPR1 controls dense-core vesicle cargo retention and EARP complex localization in insulin-secreting cells. <i>Molecular Biology of the Cell</i> , 2020, 31, 59-79.	0.9	14
35	Repression of the cob operon of <i>Salmonella typhimurium</i> by adenosylcobalamin is influenced by mutations in the pdu operon. <i>Journal of Bacteriology</i> , 1997, 179, 6084-6091.	1.0	13
36	The SEK-1 p38 MAP Kinase Pathway Modulates Gq Signaling in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2979-2989.	0.8	13

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37	Cytoplasmicâ€Nuclear Incompatibility Between Wild Isolates of <i>Caenorhabditis nouraguensis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 823-834.	0.8	12
38	Hybridization promotes asexual reproduction in <i>Caenorhabditis</i> nematodes. <i>PLoS Genetics</i> , 2019, 15, e1008520.	1.5	10
39	Dopamine receptor DOP-1 engages a sleep pathway to modulate swimming in <i>C.Âelegans</i> . <i>IScience</i> , 2021, 24, 102247.	1.9	8
40	Local adaptation and spatiotemporal patterns of genetic diversity revealed by repeated sampling of <i>Caenorhabditis elegans</i> across the Hawaiian Islands. <i>Molecular Ecology</i> , 2022, 31, 2327-2347.	2.0	8
41	Genetics: Master Regulator or Master of Disguise?. <i>Current Biology</i> , 2017, 27, R844-R847.	1.8	1