

Ikue Mori

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

4,317
citations

159585

30
h-index

197818

49
g-index

63
all docs

63
docs citations

63
times ranked

2613
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural regulation of thermotaxis in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 1995, 376, 344-348.	27.8	534
2	Mutations in a Cyclic Nucleotide-gated Channel Lead to Abnormal Thermosensation and Chemosensation in <i>C. elegans</i> . <i>Neuron</i> , 1996, 17, 707-718.	8.1	398
3	Regulation of Interneuron Function in the <i>C. elegans</i> Thermoregulatory Pathway by the <i>ttx-3</i> LIM Homeobox Gene. <i>Neuron</i> , 1997, 19, 345-357.	8.1	250
4	Ca ²⁺ Signaling via the Neuronal Calcium Sensor-1 Regulates Associative Learning and Memory in <i>C. elegans</i> . <i>Neuron</i> , 2001, 30, 241-248.	8.1	205
5	The <i>C. elegans</i> Thermosensory Neuron AFD Responds to Warming. <i>Current Biology</i> , 2004, 14, 1291-1295.	3.9	192
6	Temperature Sensing by an Olfactory Neuron in a Circuit Controlling Behavior of <i>C. elegans</i> . <i>Science</i> , 2008, 320, 803-807.	12.6	180
7	<i>C. elegans</i> phototransduction requires a G protein-dependent cGMP pathway and a taste receptor homolog. <i>Nature Neuroscience</i> , 2010, 13, 715-722.	14.8	171
8	HEN-1, a Secretory Protein with an LDL Receptor Motif, Regulates Sensory Integration and Learning in <i>Caenorhabditis elegans</i> . <i>Cell</i> , 2002, 109, 639-649.	28.9	157
9	Genetics of Chemotaxis and Thermotaxis in the Nematode <i>Caenorhabditis Elegans</i> . <i>Annual Review of Genetics</i> , 1999, 33, 399-422.	7.6	154
10	Identification of Guanylyl Cyclases That Function in Thermosensory Neurons of <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2006, 172, 2239-2252.	2.9	153
11	Specification of Thermosensory Neuron Fate in <i>C. elegans</i> Requires <i>ttx-1</i> , a Homolog of <i>otd/Otx</i> . <i>Neuron</i> , 2001, 31, 943-956.	8.1	148
12	Negative Regulation and Gain Control of Sensory Neurons by the <i>C. elegans</i> Calcineurin TAX-6. <i>Neuron</i> , 2002, 33, 751-763.	8.1	130
13	Genetic Control of Temperature Preference in the Nematode <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 169, 1437-1450.	2.9	130
14	Insulin-like signaling and the neural circuit for integrative behavior in <i>C. elegans</i> . <i>Genes and Development</i> , 2006, 20, 2955-2960.	5.9	123
15	Functional reconstitution of a heteromeric cyclic nucleotide-gated channel of <i>Caenorhabditis elegans</i> in cultured cells. <i>Brain Research</i> , 1999, 821, 160-168.	2.2	102
16	Behavioral plasticity, learning, and memory in <i>C. elegans</i> . <i>Current Opinion in Neurobiology</i> , 2013, 23, 92-99.	4.2	94
17	Diverse regulation of sensory signaling by <i>C. elegans</i> nPKC-epsilon/eta TTX-4. <i>EMBO Journal</i> , 2005, 24, 2127-2137.	7.8	92
18	Bidirectional regulation of thermotaxis by glutamate transmissions in <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 2011, 30, 1376-1388.	7.8	86

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19	dnc-1/dynactin 1 Knockdown Disrupts Transport of Autophagosomes and Induces Motor Neuron Degeneration. PLoS ONE, 2013, 8, e54511.	2.5	85
20	Worm thermotaxis: a model system for analyzing thermosensation and neural plasticity. Current Opinion in Neurobiology, 2007, 17, 712-719.	4.2	70
21	Regulation of behavioral plasticity by systemic temperature signaling in <i>Caenorhabditis elegans</i> . Nature Neuroscience, 2011, 14, 984-992.	14.8	70
22	Quantitative analysis of thermotaxis in the nematode <i>Caenorhabditis elegans</i> . Journal of Neuroscience Methods, 2006, 154, 45-52.	2.5	67
23	Neural coding in a single sensory neuron controlling opposite seeking behaviours in <i>Caenorhabditis elegans</i> . Nature Communications, 2011, 2, 355.	12.8	66
24	Single-Cell Memory Regulates a Neural Circuit for Sensory Behavior. Cell Reports, 2016, 14, 11-21.	6.4	63
25	Inositol monophosphatase regulates localization of synaptic components and behavior in the mature nervous system of <i>C. elegans</i> . Genes and Development, 2006, 20, 3296-3310.	5.9	61
26	Thermotaxis of <i>C. elegans</i> as a model for temperature perception, neural information processing and neural plasticity. Worm, 2012, 1, 31-41.	1.0	56
27	Identification of the AFD neuron as the site of action of the CREB protein in <i>Caenorhabditis elegans</i> thermotaxis. EMBO Reports, 2011, 12, 855-862.	4.5	52
28	Molecular Physiology of the Neural Circuit for Calcineurin-Dependent Associative Learning in <i>Caenorhabditis elegans</i> . Journal of Neuroscience, 2006, 26, 9355-9364.	3.6	47
29	Molecular neurogenetics of chemotaxis and thermotaxis in the nematode <i>Caenorhabditis elegans</i> . BioEssays, 1997, 19, 1055-1064.	2.5	46
30	Molecular biology of thermosensory transduction in <i>C. elegans</i> . Current Opinion in Neurobiology, 2015, 34, 117-124.	4.2	42
31	Reconstruction of Spatial Thermal Gradient Encoded in Thermosensory Neuron AFD in <i>Caenorhabditis elegans</i> . Journal of Neuroscience, 2016, 36, 2571-2581.	3.6	35
32	Context-dependent operation of neural circuits underlies a navigation behavior in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6178-6188.	7.1	32
33	Lifespan extension by peroxidase/dual oxidase-mediated ROS signaling through pyrroloquinoline quinone in <i>C. elegans</i> . Journal of Cell Science, 2017, 130, 2631-2643.	2.0	30
34	A behavior-based drug screening system using a <i>Caenorhabditis elegans</i> model of motor neuron disease. Scientific Reports, 2019, 9, 10104.	3.3	25
35	Presynaptic MAST kinase controls opposing postsynaptic responses to convey stimulus valence in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1638-1647.	7.1	23
36	Identification of animal behavioral strategies by inverse reinforcement learning. PLoS Computational Biology, 2018, 14, e1006122.	3.2	21

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37	Age-dependent changes in response property and morphology of a thermosensory neuron and thermotaxis behavior in <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2020, 19, e13146.	6.7	17
38	Novel and Conserved Protein Macoilin Is Required for Diverse Neuronal Functions in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2011, 7, e1001384.	3.5	15
39	SLO potassium channels antagonize premature decision making in <i>C. elegans</i> . <i>Communications Biology</i> , 2018, 1, 123.	4.4	13
40	A novel and conserved protein AHO-3 is required for thermotactic plasticity associated with feeding states in <i>Caenorhabditis elegans</i> . <i>Genes To Cells</i> , 2012, 17, 365-386.	1.2	12
41	Neural Coding of Thermal Preferences in the Nematode <i>Caenorhabditis elegans</i> . <i>ENeuro</i> , 2020, 7, ENEURO.0414-19.2020.	1.9	12
42	KIN-4/MAST kinase promotes PTEN-mediated longevity of <i>Caenorhabditis elegans</i> via binding through a PDZ domain. <i>Aging Cell</i> , 2019, 18, e12906.	6.7	10
43	Human <i>myo-inositol</i> monophosphatase 2 rescues the nematode thermotaxis mutant <i>ttx-7</i> more efficiently than <i>scp>IMPA</scp>1</i> : functional and evolutionary considerations of the two mammalian <i>myo-inositol</i> monophosphatase genes. <i>Journal of Neurochemistry</i> , 2013, 124, 685-694.	3.9	8
44	Aging: Shall We Take the High Road?. <i>Current Biology</i> , 2009, 19, R363-R364.	3.9	6
45	Axially-confined <i>in vivo</i> single-cell labeling by primed conversion using blue and red lasers with conventional confocal microscopes. <i>Development Growth and Differentiation</i> , 2017, 59, 741-748.	1.5	6
46	The <i>Caenorhabditis elegans</i> <i>INX-4/Innexin</i> is required for the fine-tuning of temperature orientation in thermotaxis behavior. <i>Genes To Cells</i> , 2020, 25, 154-164.	1.2	6
47	Molecular Mechanisms of Learning in <i>Caenorhabditis elegans</i> . , 2017, , 415-434.		6
48	A Single Sensory Neuron Directs Both Attractive and Repulsive Odor Preferences. <i>Neuron</i> , 2008, 59, 839-840.	8.1	2
49	Thermosensory Learning in <i>Caenorhabditis elegans</i> . <i>Handbook of Behavioral Neuroscience</i> , 2013, , 124-139.	0.7	2
50	Japanese studies on neural circuits and behavior of <i>Caenorhabditis elegans</i> . <i>Frontiers in Neural Circuits</i> , 2013, 7, 187.	2.8	2
51	OLA-1, an Obg-like ATPase, integrates hunger with temperature information in sensory neurons in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2022, 18, e1010219.	3.5	1
52	2P268 High-throughput analysis elucidates the complex pattern of sensory-motor integration in thermotaxis behavior of <i>C. elegans</i> (The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010, 50, S130.	0.1	0
53	Thermosensory Neuronal Encoding of Spatial Temperature Gradient in <i>C. elegans</i> Thermotaxis. <i>Seibutsu Butsuri</i> , 2018, 58, 031-033.	0.1	0
54	Optogenetics in <i>Caenorhabditis elegans</i> . <i>Advances in Experimental Medicine and Biology</i> , 2021, 1293, 321-334.	1.6	0

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55	Behavioral Analysis in <i>Caenorhabditis elegans</i> . , 2013, , 3-13.		0