

Atsushi Kuhara

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,623
citations

430874

18
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

1253
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Bidirectional regulation of thermotaxis by glutamate transmissions in <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 2011, 30, 1376-1388.	7.8	86
7	Light and pheromone-sensing neurons regulates cold habituation through insulin signalling in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2014, 5, 4412.	12.8	83
8	Worm thermotaxis: a model system for analyzing thermosensation and neural plasticity. <i>Current Opinion in Neurobiology</i> , 2007, 17, 712-719.	4.2	70
9	Maintenance of neuronal positions in organized ganglia by SAX-7, a <i>Caenorhabditis elegans</i> homologue of L1. <i>EMBO Journal</i> , 2005, 24, 1477-1488.	7.8	68
10	Neural coding in a single sensory neuron controlling opposite seeking behaviours in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2011, 2, 355.	12.8	66
11	Inositol monophosphatase regulates localization of synaptic components and behavior in the mature nervous system of <i>C. elegans</i> . <i>Genes and Development</i> , 2006, 20, 3296-3310.	5.9	61
12	Molecular Physiology of the Neural Circuit for Calcineurin-Dependent Associative Learning in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2006, 26, 9355-9364.	3.6	47
13	Sperm Affects Head Sensory Neuron in Temperature Tolerance of <i>Caenorhabditis elegans</i> . <i>Cell Reports</i> , 2016, 16, 56-65.	6.4	39
14	Reconstruction of Spatial Thermal Gradient Encoded in Thermosensory Neuron AFD in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2016, 36, 2571-2581.	3.6	35
15	Endoribonuclease ENDU-2 regulates multiple traits including cold tolerance via cell autonomous and nonautonomous controls in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8823-8828.	7.1	34
16	The mechanoreceptor DEG-1 regulates cold tolerance in <i>Caenorhabditis elegans</i> . <i>EMBO Reports</i> , 2020, 21, e48671.	4.5	28
17	Natural variations of cold tolerance and temperature acclimation in <i>Caenorhabditis elegans</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2016, 186, 985-998.	1.5	22
18	OSM-9 and OCR-2 TRPV channels are accessorial warm receptors in <i>Caenorhabditis elegans</i> temperature acclimatisation. <i>Scientific Reports</i> , 2020, 10, 18566.	3.3	22

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19	Temperature signaling underlying thermotaxis and cold tolerance in <i>Caenorhabditis elegans</i> . <i>Journal of Neurogenetics</i> , 2020, 34, 351-362.	1.4	22
20	Synaptic Polarity Depends on Phosphatidylinositol Signaling Regulated by <i>myo</i> -Inositol Monophosphatase in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2012, 191, 509-521.	2.9	20
21	<i>Caenorhabditis elegans</i> homologue of Prox1/Prospero is expressed in the glia and is required for sensory behavior and cold tolerance. <i>Genes To Cells</i> , 2016, 21, 936-948.	1.2	19
22	Cold acclimation via the KQT-2 potassium channel is modulated by oxygen in <i>Caenorhabditis elegans</i> . <i>Science Advances</i> , 2019, 5, eaav3631.	10.3	18
23	Diverse Regulation of Temperature Sensation by Trimeric G-Protein Signaling in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2016, 11, e0165518.	2.5	17
24	Cellular identity and Ca ²⁺ signaling activity of the non-reproductive GnRH system in the <i>Ciona intestinalis</i> type A (<i>Ciona robusta</i>) larva. <i>Scientific Reports</i> , 2020, 10, 18590.	3.3	16
25	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
26	Molecular mechanism for trimetric G protein-coupled thermosensation and synaptic regulation in the temperature response circuit of <i>Caenorhabditis elegans</i> . <i>Neuroscience Research</i> , 2013, 76, 119-124.	1.9	15
27	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
28	Cold tolerance assay for studying cultivation-temperature-dependent cold habituation in <i>C. elegans</i> . <i>Protocol Exchange</i> , 0, , .	0.3	9
29	Molecular physiology regulating cold tolerance and acclimation of <i>Caenorhabditis elegans</i> . <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2022, 98, 126-139.	3.8	6
30	daf-16/FOXO isoform b in AIY neurons is involved in low preference for <i>Bifidobacterium infantis</i> in <i>Caenorhabditis elegans</i> . <i>Neuroscience Research</i> , 2020, 150, 8-16.	1.9	4
31	Molecular Physiological Mechanism of Temperature Response in Nematode <i>C. elegans</i> . <i>Seibutsu Butsuri</i> , 2012, 52, 200-201.	0.1	1
32	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
33	High-throughput analysis elucidates the complex pattern of sensory-motor integration in thermotactic behavior of <i>C. elegans</i> . <i>Neuroscience Research</i> , 2010, 68, e393.	1.9	0
34	Neural Circuit Model for Sensory Information Integration in <i>C. elegans</i> . <i>Seibutsu Butsuri</i> , 2021, 61, 192-193.	0.1	0
35	3PT201 Seeking molecular and neural mechanisms of temperature response and resistance in <i>C. elegans</i> (The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012, 52, S174-S175.	0.1	0
36	Neural processing mechanism underlying temperature response of nematode <i>Caenorhabditis elegans</i> . <i>Hikaku Seiri Seikagaku(Comparative Physiology and Biochemistry)</i> , 2012, 29, 112-120.	0.0	0

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37	Regulation of temperature habituation through neuron and intestine in nematode <i>Caenorhabditis elegans</i> . Hikaku Seiri Seikagaku(Comparative Physiology and Biochemistry), 2015, 32, 67-75.	0.0	0
38	Temperature sensation in cold acclimation of nematode <i>Caenorhabditis elegans</i> is affected by environmental oxygen concentration. Hikaku Seiri Seikagaku(Comparative Physiology and) Tj ETQq0 0 0 rgBT /Overdoek 10 T650 697 Td		