

Koutarou D Kimura

List of Publications by Year in descending order

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docs citations

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3848
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking Moving Cells in 3D Time Lapse Images Using 3DeeCellTracker. Bio-protocol, 2022, 12, e4319.	0.4	0
2	Calcium Imaging of Neuronal Activity under Gradually Changing Odor Stimulation in Caenorhabditis elegans. Bio-protocol, 2021, 11, e3866.	0.4	2
3	3DeeCellTracker, a deep learning-based pipeline for segmenting and tracking cells in 3D time lapse images. ELife, 2021, 10, .	6.0	53
4	Cross-species behavior analysis with attention-based domain-adversarial deep neural networks. Nature Communications, 2021, 12, 5519.	12.8	5
5	Deep learning-assisted comparative analysis of animal trajectories with DeepHL. Nature Communications, 2020, 11, 5316.	12.8	36
6	How do we know how the brain works? Analyzing whole brain activities with classic mathematical and machine learning methods. Japanese Journal of Applied Physics, 2020, 59, 030501.	1.5	1
7	STEFTR: A Hybrid Versatile Method for State Estimation and Feature Extraction From the Trajectory of Animal Behavior. Frontiers in Neuroscience, 2019, 13, 626.	2.8	8
8	Efficient learning algorithm for sparse subsequence pattern-based classification and applications to comparative animal trajectory data analysis. Advanced Robotics, 2019, 33, 134-152.	1.8	9
9	Real-time volumetric microscopy of in vivo dynamics and large-scale samples with SCAPE 2.0. Nature Methods, 2019, 16, 1054-1062.	19.0	222
10	Neuronal, mathematical, and molecular bases of perceptual decision-making in C. elegans. Neuroscience Research, 2019, 140, 3-13.	1.9	8
11	Robotic Microscope System for Studying the Basic Principles of Brain Function. , 2018, , .		0
12	Finding Discriminative Animal Behaviors from Sequential Bio-Logging Trajectory Data. Lecture Notes in Computer Science, 2018, , 125-138.	1.3	1
13	Neural Mechanisms of Animal Navigation. Lecture Notes in Computer Science, 2018, , 65-81.	1.3	0
14	Measuring Spatiotemporal Dynamics of Odor Gradient for Small Animals by Gas Chromatography. Bio-protocol, 2018, 8, e2797.	0.4	6
15	Calcium dynamics regulating the timing of decision-making in C. elegans. ELife, 2017, 6, .	6.0	50
16	In actio optophysiological analyses reveal functional diversification of dopaminergic neurons in the nematode C. elegans. Scientific Reports, 2016, 6, 26297.	3.3	23
17	Modulation of different behavioral components by neuropeptide and dopamine signalings in non-associative odor learning of Caenorhabditis elegans. Neuroscience Research, 2015, 99, 22-33.	1.9	26
18	A simple optogenetic system for behavioral analysis of freely moving small animals. Neuroscience Research, 2013, 75, 65-68.	1.9	17

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19	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
20	The <i>C. elegans</i> DAF-2 Insulin-Like Receptor is Abundantly Expressed in the Nervous System and Regulated by Nutritional Status. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 113-120.	1.1	53
21	Ultradian rhythm in the intestine of <i>Caenorhabditis elegans</i> is controlled by the C-terminal region of the FLR-1 ion channel and the hydrophobic domain of the FLR-4 protein kinase. <i>Genes To Cells</i> , 2011, 16, 565-575.	1.2	9
22	Enhancement of Odor Avoidance Regulated by Dopamine Signaling in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2010, 30, 16365-16375.	3.6	70
23	FLR-2, the glycoprotein hormone alpha subunit, is involved in the neural control of intestinal functions in <i>Caenorhabditis elegans</i> . <i>Genes To Cells</i> , 2009, 14, 1141-1154.	1.2	31
24	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
25	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
26	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
27	FLR-4, a Novel Serine/Threonine Protein Kinase, Regulates Defecation Rhythm in <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 1355-1365.	2.1	13
28	Genetic Control of Temperature Preference in the Nematode <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 169, 1437-1450.	2.9	130
29	The <i>C. elegans</i> Thermosensory Neuron AFD Responds to Warming. <i>Current Biology</i> , 2004, 14, 1291-1295.	3.9	192
30	Slow Ca ²⁺ dynamics in pharyngeal muscles in <i>Caenorhabditis elegans</i> during fast pumping. <i>EMBO Reports</i> , 2004, 5, 521-526.	4.5	30
31	Regulation of <i>C. elegans</i> Life-Span by Insulinlike Signaling in the Nervous System. <i>Science</i> , 2000, 290, 147-150.	12.6	630
32	Density dependent elevation of phosphatidylinositol-3 kinase level in rat 3Y1 cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1401, 113-120.	4.1	6
33	<i>daf-2</i> , an Insulin Receptor-Like Gene That Regulates Longevity and Diapause in <i>Caenorhabditis elegans</i> . <i>Science</i> , 1997, 277, 942-946.	12.6	2,072
34	A Target of Phosphatidylinositol 3,4,5-Trisphosphate with a Zinc Finger Motif Similar to that of the ADP-Ribosylation-Factor GTPase-Activating Protein and Two Pleckstrin Homology Domains. <i>FEBS Journal</i> , 1997, 245, 512-519.	0.2	80
35	Dominant negative effect of the truncated p110 subunit of phosphatidylinositol-3 kinase. <i>IUBMB Life</i> , 1996, 39, 721-728.	3.4	1
36	A Novel Differentiation Factor for PC12 Cells from Culture Supernatant of Mouse Hepatocyte Cell Line MLE-15A2. <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 1339-1345.	1.3	1

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37	Synthesis of 1-O-alkyl- and 1-O-acyl-myo-inositol 3, 4, 5-trisphosphates as novel analogues of phosphatidyl-myo-inositol 3, 4, 5-trisphosphate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 2263-2266.	2.2	14
38	Phosphatidylinositol-3 Kinase in Fission Yeast: A Possible Role in Stress Responses. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995, 59, 678-682.	1.3	23
39	From Connectome to Function: Using Optogenetics to Shed Light on the <i>Caenorhabditis elegans</i> Nervous System. , 0, , 37-54.		0