

Makoto Mizunami

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,460
citations

168829

31
h-index

214428

50
g-index

102
all docs

102
docs citations

102
times ranked

1805
citing authors

#	ARTICLE	IF	CITATIONS
1	Silencing the odorant receptor co-receptor impairs olfactory reception in a sensillum-specific manner in the cockroach. <i>IScience</i> , 2022, 25, 104272.	1.9	9
2	Spontaneous recovery from overexpectation in an insect. <i>Scientific Reports</i> , 2022, 12, .	1.6	0
3	Conditioned taste aversion in the cricket <i>Gryllus bimaculatus</i> . <i>Scientific Reports</i> , 2022, 12, .	1.6	0
4	What Is Learned in Pavlovian Conditioning in Crickets? Revisiting the S-S and S-R Learning Theories. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 661225.	1.0	9
5	Reduction of contextual control of conditioned responses by extended Pavlovian training in an insect. <i>Learning and Memory</i> , 2021, 28, 17-23.	0.5	2
6	Appetitive and aversive social learning with living and dead conspecifics in crickets. <i>Scientific Reports</i> , 2020, 10, 9340.	1.6	8
7	Development of behavioural automaticity by extended Pavlovian training in an insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182132.	1.2	5
8	Separate But Interactive Parallel Olfactory Processing Streams Governed by Different Types of GABAergic Feedback Neurons in the Mushroom Body of a Basal Insect. <i>Journal of Neuroscience</i> , 2019, 39, 8690-8704.	1.7	8
9	Functional unification of sex pheromone-receptive glomeruli in the invasive Turkestan cockroach derived from the genus <i>Periplaneta</i> . <i>Neuroscience Letters</i> , 2019, 708, 134320.	1.0	3
10	Tyrosine hydroxylase-immunoreactive neurons in the mushroom body of the field cricket, <i>Gryllus bimaculatus</i> . <i>Cell and Tissue Research</i> , 2019, 376, 97-111.	1.5	3
11	Pavlovian Learning in Invertebrates. , 2019, , 403-410.		0
12	Spatial Receptive Fields for Odor Localization. <i>Current Biology</i> , 2018, 28, 600-608.e3.	1.8	34
13	Calcium imaging method to visualize the spatial patterns of neural responses in the pygmy squid, <i>Idiosepius paradoxus</i> , central nervous system. <i>Journal of Neuroscience Methods</i> , 2018, 294, 67-71.	1.3	5
14	Application of a Prediction Error Theory to Pavlovian Conditioning in an Insect. <i>Frontiers in Psychology</i> , 2018, 9, 1272.	1.1	14
15	Signaling Pathways for Long-Term Memory Formation in the Cricket. <i>Frontiers in Psychology</i> , 2018, 9, 1014.	1.1	17
16	Protocols for Olfactory Conditioning Experiments. , 2017, , 273-284.		1
17	Learning and Memory. , 2017, , 129-140.		2
18	Group-housed females promote production of asexual ootheca in American cockroaches. <i>Zoological Letters</i> , 2017, 3, 3.	0.7	9

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19	Roles of dopamine neurons in mediating the prediction error in aversive learning in insects. <i>Scientific Reports</i> , 2017, 7, 14694.	1.6	17
20	Complete identification of four giant interneurons supplying mushroom body calyces in the cockroach <i>Periplaneta americana</i> . <i>Journal of Comparative Neurology</i> , 2017, 525, 204-230.	0.9	18
21	Roles of Octopamine and Dopamine Neurons for Mediating Appetitive and Aversive Signals in Pavlovian Conditioning in Crickets. <i>Frontiers in Physiology</i> , 2017, 8, 1027.	1.3	35
22	Two Parallel Olfactory Pathways for Processing General Odors in a Cockroach. <i>Frontiers in Neural Circuits</i> , 2017, 11, 32.	1.4	23
23	Activation of NO-cGMP Signaling Rescues Age-Related Memory Impairment in Crickets. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 166.	1.0	10
24	Dopamine- and Tyrosine Hydroxylase-Immunoreactive Neurons in the Brain of the American Cockroach, <i>Periplaneta americana</i> . <i>PLoS ONE</i> , 2016, 11, e0160531.	1.1	26
25	Status of and Future Research on Thermosensory Processing. <i>Frontiers in Physiology</i> , 2016, 7, 150.	1.3	9
26	Three-dimensional brain atlas of pygmy squid, <i>Idiosepius paradoxus</i> , revealing the largest relative vertical lobe system volume among the cephalopods. <i>Journal of Comparative Neurology</i> , 2016, 524, 2142-2157.	0.9	13
27	Interaction of inhibitory and facilitatory effects of conditioning trials on long-term memory formation. <i>Learning and Memory</i> , 2016, 23, 669-678.	0.5	14
28	Effects of Caffeine on Olfactory Learning in Crickets. <i>Zoological Science</i> , 2016, 33, 513-519.	0.3	11
29	Roles of OA1 octopamine receptor and Dop1 dopamine receptor in mediating appetitive and aversive reinforcement revealed by RNAi studies. <i>Scientific Reports</i> , 2016, 6, 29696.	1.6	34
30	Convergence of multimodal sensory pathways to the mushroom body calyx in <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2016, 6, 29481.	1.6	71
31	Knockout crickets for the study of learning and memory: Dopamine receptor Dop1 mediates aversive but not appetitive reinforcement in crickets. <i>Scientific Reports</i> , 2015, 5, 15885.	1.6	79
32	Critical evidence for the prediction error theory in associative learning. <i>Scientific Reports</i> , 2015, 5, 8929.	1.6	28
33	Roles of octopamine and dopamine in appetitive and aversive memory acquisition studied in olfactory conditioning of maxillary palpi extension response in crickets. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 230.	1.0	29
34	Toward elucidating diversity of neural mechanisms underlying insect learning. <i>Zoological Letters</i> , 2015, 1, 8.	0.7	22
35	Coarse topographic organization of pheromone-sensitive afferents from different antennal surfaces in the American cockroach. <i>Neuroscience Letters</i> , 2015, 595, 35-40.	1.0	7
36	Cyclic nucleotide-gated channels, calmodulin, adenylyl cyclase, and calcium/calmodulin-dependent protein kinase II are required for late, but not early, long-term memory formation in the honeybee. <i>Learning and Memory</i> , 2014, 21, 272-286.	0.5	37

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37	Roles of Calcium/Calmodulin-Dependent Kinase II in Long-Term Memory Formation in Crickets. PLoS ONE, 2014, 9, e107442.	1.1	15
38	Participation of NO signaling in formation of long-term memory in salivary conditioning of the cockroach. Neuroscience Letters, 2013, 541, 4-8.	1.0	11
39	Analysis and modeling of neural processes underlying sensory preconditioning. Neurobiology of Learning and Memory, 2013, 101, 103-113.	1.0	20
40	Roles of NO Signaling in Long-Term Memory Formation in Visual Learning in an Insect. PLoS ONE, 2013, 8, e68538.	1.1	15
41	Olfactory and Visual Learning in Cockroaches and Crickets. Handbook of Behavioral Neuroscience, 2013, , 549-560.	0.7	5
42	Context-dependent olfactory learning monitored by activities of salivary neurons in cockroaches. Neurobiology of Learning and Memory, 2012, 97, 30-36.	1.0	17
43	Divergent and convergent projections to the two parallel olfactory centers from two neighboring, pheromone-receptive glomeruli in the male American cockroach. Journal of Comparative Neurology, 2012, 520, 3428-3445.	0.9	20
44	Visual and olfactory input segregation in the mushroom body calyces in a basal neopteran, the American cockroach. Arthropod Structure and Development, 2012, 41, 3-16.	0.8	28
45	Critical roles of mecamylamine-sensitive mushroom body neurons in insect olfactory learning. Neurobiology of Learning and Memory, 2011, 95, 1-13.	1.0	24
46	Pheromone Detection by a Pheromone Emitter: A Small Sex Pheromone-Specific Processing System in the Female American Cockroach. Chemical Senses, 2011, 36, 261-270.	1.1	15
47	Complete mapping of glomeruli based on sensory nerve branching pattern in the primary olfactory center of the cockroach <i>Periplaneta americana</i> . Journal of Comparative Neurology, 2010, 518, 3907-3930.	0.9	49
48	Alarm pheromone processing in the ant brain: an evolutionary perspective. Frontiers in Behavioral Neuroscience, 2010, 4, 28.	1.0	29
49	Roles of Aminergic Neurons in Formation and Recall of Associative Memory in Crickets. Frontiers in Behavioral Neuroscience, 2010, 4, 172.	1.0	29
50	Spatial representation of alarm pheromone information in a secondary olfactory centre in the ant brain. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2465-2474.	1.2	10
51	Postembryonic development of sexually dimorphic glomeruli and related interneurons in the cockroach <i>Periplaneta americana</i> . Neuroscience Letters, 2010, 469, 60-64.	1.0	22
52	Differential odor processing in two olfactory pathways in the honeybee. Frontiers in Systems Neuroscience, 2009, 3, 16.	1.2	58
53	Functional and topographic segregation of glomeruli revealed by local staining of antennal sensory neurons in the honeybee <i>Apis mellifera</i> . Journal of Comparative Neurology, 2009, 515, 161-180.	0.9	61
54	Roles of octopaminergic and dopaminergic neurons in appetitive and aversive memory recall in an insect. BMC Biology, 2009, 7, 46.	1.7	94

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55	Systemic RNA interference for the study of learning and memory in an insect. <i>Journal of Neuroscience Methods</i> , 2009, 179, 9-15.	1.3	46
56	Why the carrot is more effective than the stick: Different dynamics of punishment memory and reward memory and its possible biological basis. <i>Neurobiology of Learning and Memory</i> , 2009, 92, 370-380.	1.0	54
57	Different growth patterns of two adjacent glomeruli responsible for sex-pheromone processing during postembryonic development of the cockroach <i>Periplaneta americana</i> . <i>Neuroscience Letters</i> , 2009, 462, 219-224.	1.0	16
58	Stimulation of the cAMP system by the nitric oxide-cGMP system underlying the formation of long-term memory in an insect. <i>Neuroscience Letters</i> , 2009, 467, 81-85.	1.0	35
59	Salivary conditioning with antennal gustatory unconditioned stimulus in an insect. <i>Neurobiology of Learning and Memory</i> , 2008, 90, 245-254.	1.0	15
60	Sensilla position on antennae influences afferent terminal location in glomeruli. <i>NeuroReport</i> , 2007, 18, 1765-1769.	0.6	19
61	Pavlov's Cockroach: Classical Conditioning of Salivation in an Insect. <i>PLoS ONE</i> , 2007, 2, e529.	1.1	44
62	Neural pathways for the processing of alarm pheromone in the ant brain. <i>Journal of Comparative Neurology</i> , 2007, 505, 424-442.	0.9	18
63	Development of Invertebrate Brain Platform: Management of Research Resources for Invertebrate Neuroscience and Neuroethology. <i>Lecture Notes in Computer Science</i> , 2007, , 905-914.	1.0	2
64	Behavioral Responses to the Alarm Pheromone of the Ant <i>Camponotus obscuripes</i> (Hymenoptera: Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	0.3	52
65	Olfactory memory capacity of the cricket <i>Gryllus bimaculatus</i> . <i>Biology Letters</i> , 2006, 2, 608-610.	1.0	26
66	Termination profiles of insect chemosensory afferents in the antennal lobe are dependent on their origin on the flagellum. <i>NeuroReport</i> , 2006, 17, 1303-1307.	0.6	11
67	Contextual olfactory learning in cockroaches. <i>NeuroReport</i> , 2006, 17, 553-557.	0.6	23
68	Roles of octopaminergic and dopaminergic neurons in mediating reward and punishment signals in insect visual learning. <i>European Journal of Neuroscience</i> , 2006, 24, 2031-2038.	1.2	127
69	Pheromone-sensitive glomeruli in the primary olfactory centre of ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2219-2225.	1.2	23
70	Classical conditioning of activities of salivary neurones in the cockroach. <i>Journal of Experimental Biology</i> , 2006, 209, 766-779.	0.8	35
71	Critical role of nitric oxide-cGMP cascade in the formation of cAMP-dependent long-term memory. <i>Learning and Memory</i> , 2006, 13, 35-44.	0.5	102
72	Participation of octopaminergic reward system and dopaminergic punishment system in insect olfactory learning revealed by pharmacological study. <i>European Journal of Neuroscience</i> , 2005, 22, 1409-1416.	1.2	188

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73	Dual, multilayered somatosensory maps formed by antennal tactile and contact chemosensory afferents in an insect brain. <i>Journal of Comparative Neurology</i> , 2005, 493, 291-308.	0.9	55
74	Pheromone communication and the mushroom body of the ant, <i>Camponotus obscuripes</i> (Hymenoptera: Tj ETQq0,0,0 rgBT /Overlock 1	0.6	13
75	Formation of Long-term Olfactory Memory in the Cricket <i>Gryllus bimaculatus</i> . <i>Chemical Senses</i> , 2005, 30, i299-i300.	1.1	9
76	Further exploration into the adaptive design of the arthropod "microbrain". I. Sensory and memory-processing systems. <i>Zoological Science</i> , 2004, 21, 1141-1151.	0.3	37
77	Context-Dependent Olfactory Learning in an Insect. <i>Learning and Memory</i> , 2004, 11, 288-293.	0.5	66
78	Projection neurons originating from thermo- and hygrosensory glomeruli in the antennal lobe of the cockroach. <i>Journal of Comparative Neurology</i> , 2003, 455, 40-55.	0.9	77
79	Distribution of dendrites of descending neurons and its implications for the basic organization of the cockroach brain. <i>Journal of Comparative Neurology</i> , 2003, 458, 158-174.	0.9	70
80	Time Course of Protein Synthesis-Dependent Phase of Olfactory Memory in the Cricket <i>Gryllus bimaculatus</i> . <i>Zoological Science</i> , 2003, 20, 409-416.	0.3	57
81	Classical Olfactory Conditioning in the Cockroach <i>Periplaneta americana</i> . <i>Zoological Science</i> , 2003, 20, 1447-1454.	0.3	59
82	Temporal determinants of long-term retention of olfactory memory in the cricket <i>Gryllus bimaculatus</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 1429-1437.	0.8	92
83	Temporal determinants of long-term retention of olfactory memory in the cricket <i>Gryllus bimaculatus</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 1429-37.	0.8	67
84	Olfactory Learning and Memory in the Cockroach <i>Periplaneta americana</i> . <i>Zoological Science</i> , 2001, 18, 21-28.	0.3	43
85	Exploration into the Adaptive Design of the Arthropod "Microbrain". <i>Zoological Science</i> , 1999, 16, 703-709.	0.3	32
86	Three classes of GABA-like immunoreactive neurons in the mushroom body of the cockroach. <i>Brain Research</i> , 1998, 788, 80-86.	1.1	43
87	Topography of modular subunits in the mushroom bodies of the cockroach. , 1998, 399, 153-161.		36
88	Topography of four classes of kenyon cells in the mushroom bodies of the cockroach. , 1998, 399, 162-175.		43
89	Mushroom bodies of the cockroach: Activity and identities of neurons recorded in freely moving animals. <i>Journal of Comparative Neurology</i> , 1998, 402, 501-519.	0.9	115
90	Mushroom bodies of the cockroach: Their participation in place memory. , 1998, 402, 520-537.		269

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91	Function-specific distribution patterns of axon terminals of input neurons in the calyces of the mushroom body of the cockroach, <i>Periplaneta americana</i> . <i>Neuroscience Letters</i> , 1998, 245, 33-36.	1.0	23
92	Giant input neurons of the mushroom body: intracellular recording and staining in the cockroach. <i>Neuroscience Letters</i> , 1998, 246, 57-60.	1.0	36
93	Modular structures in the mushroom body of the cockroach. <i>Neuroscience Letters</i> , 1997, 229, 153-156.	1.0	42
94	Information Processing in the Insect Ocellar System: Comparative Approaches to the Evolution of Visual Processing and Neural Circuits. <i>Advances in Insect Physiology</i> , 1995, 25, 151-265.	1.1	48
95	Neural organization of ocellar pathways in the cockroach brain. <i>Journal of Comparative Neurology</i> , 1995, 352, 458-468.	0.9	21
96	Morphology of higher-order ocellar interneurons in the cockroach brain. <i>Journal of Comparative Neurology</i> , 1995, 362, 293-304.	0.9	15
97	Functional diversity of neural organization in insect ocellar systems. <i>Vision Research</i> , 1995, 35, 443-452.	0.7	64
98	Dynamics of Second-Order Neurons of Cockroach Ocelli. , 1989, , 71-84.		1
99	Calcium-Dependent Action Potentials in the Second-Order Neurones of Cockroach Ocelli. <i>Journal of Experimental Biology</i> , 1987, 130, 259-274.	0.8	12
100	Classification of Ocellar Interneurones in the Cockroach Brain. <i>Journal of Experimental Biology</i> , 1986, 125, 57-70.	0.8	18
101	Intracellular stainings of the large ocellar second order neurons in the cockroach. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1982, 149, 215-219.	0.7	27