

Kazushige Touhara

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

6,161
citations

136740

32
h-index

110170

64
g-index

77
all docs

77
docs citations

77
times ranked

5306
citing authors

#	ARTICLE	IF	CITATIONS
1	Odorant metabolism of the olfactory cleft mucus in idiopathic olfactory impairment patients and healthy volunteers. <i>International Forum of Allergy and Rhinology</i> , 2022, 12, 293-301.	1.5	12
2	Genetic variation of olfactory receptor gene family in a Japanese population. <i>Anthropological Science</i> , 2022, 130, 93-106.	0.2	3
3	Hemoglobin in the blood acts as a chemosensory signal via the mouse vomeronasal system. <i>Nature Communications</i> , 2022, 13, 556.	5.8	3
4	An olfactory self-test effectively screens for COVID-19. <i>Communications Medicine</i> , 2022, 2, .	1.9	10
5	Spatiotemporal dynamics of odor representations in the human brain revealed by EEG decoding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114966119.	3.3	15
6	A single vomeronasal receptor promotes intermale aggression through dedicated hypothalamic neurons. <i>Neuron</i> , 2022, 110, 2455-2469.e8.	3.8	9
7	Origin and Evolution of the Gene Family of Proteinaceous Pheromones, the Exocrine Gland-Secreting Peptides, in Rodents. <i>Molecular Biology and Evolution</i> , 2021, 38, 634-649.	3.5	0
8	Transcriptional regulators involved in responses to volatile organic compounds in plants. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
9	Calcitonin receptor signaling in the medial preoptic area enables risk-taking maternal care. <i>Cell Reports</i> , 2021, 35, 109204.	2.9	32
10	CUBIC-Cloud provides an integrative computational framework toward community-driven whole-mouse-brain mapping. <i>Cell Reports Methods</i> , 2021, 1, 100038.	1.4	12
11	Comparative genomic analyses illuminate the distinct evolution of megabats within Chiroptera. <i>DNA Research</i> , 2020, 27, .	1.5	10
12	Response to Drea et al.. <i>Current Biology</i> , 2020, 30, R1357-R1358.	1.8	1
13	Response to Kappeler. <i>Current Biology</i> , 2020, 30, R1360.	1.8	2
14	Key Male Glandular Odorants Attracting Female Ring-Tailed Lemurs. <i>Current Biology</i> , 2020, 30, 2131-2138.e4.	1.8	13
15	Versatile whole-organ/body staining and imaging based on electrolyte-gel properties of biological tissues. <i>Nature Communications</i> , 2020, 11, 1982.	5.8	134
16	Relationship Between Odor Intensity Estimates and COVID-19 Prevalence Prediction in a Swedish Population. <i>Chemical Senses</i> , 2020, 45, 449-456.	1.1	53
17	Mammalian Olfactory and Vomeronasal Receptor Families. , 2020, , 516-535.		0
18	Metabolism of Odorant Molecules in Human Nasal/Oral Cavity Affects the Odorant Perception. <i>Chemical Senses</i> , 2019, 44, 465-481.	1.1	41

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19	Hypothalamic neuronal circuits regulating hunger-induced taste modification. <i>Nature Communications</i> , 2019, 10, 4560.	5.8	39
20	Fruit scent and observer colour vision shape food-selection strategies in wild capuchin monkeys. <i>Nature Communications</i> , 2019, 10, 2407.	5.8	34
21	Subjective unpleasantness of malodors induces a stress response. <i>Psychoneuroendocrinology</i> , 2019, 106, 206-215.	1.3	12
22	Electrophysiological correlates of top-down attentional modulation in olfaction. <i>Scientific Reports</i> , 2019, 9, 4953.	1.6	14
23	Individuals With Autism Spectrum Disorder Show Altered Event-Related Potentials in the Late Stages of Olfactory Processing. <i>Chemical Senses</i> , 2019, 45, 37-44.	1.1	2
24	Transcriptional regulators involved in responses to volatile organic compounds in plants. <i>Journal of Biological Chemistry</i> , 2019, 294, 2256-2266.	1.6	56
25	Contribution of individual olfactory receptors to odor-induced attractive or aversive behavior in mice. <i>Nature Communications</i> , 2019, 10, 209.	5.8	37
26	A sexual rejection peptide: potential use for controlling mouse overpopulation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 705-708.	0.6	0
27	Neural circuits regulating sexual behaviors via the olfactory system in mice. <i>Neuroscience Research</i> , 2019, 140, 59-76.	1.0	37
28	Acceleration of Olfactory Receptor Gene Loss in Primate Evolution: Possible Link to Anatomical Change in Sensory Systems and Dietary Transition. <i>Molecular Biology and Evolution</i> , 2018, 35, 1437-1450.	3.5	102
29	Identification of an Intra- and Inter-specific Tear Protein Signal in Rodents. <i>Current Biology</i> , 2018, 28, 1213-1223.e6.	1.8	27
30	Sexual rejection via a vomeronasal receptor-triggered limbic circuit. <i>Nature Communications</i> , 2018, 9, 4463.	5.8	43
31	G Protein-Coupled Receptor Kinase 3 (GRK3) in Olfaction. <i>Methods in Molecular Biology</i> , 2018, 1820, 33-41.	0.4	0
32	Identification and characterization of the bombykal receptor in the hawkmoth <i>Manduca sexta</i> . <i>Journal of Experimental Biology</i> , 2017, 220, 1781-1786.	0.8	25
33	A Labeled-Line Neural Circuit for Pheromone-Mediated Sexual Behaviors in Mice. <i>Neuron</i> , 2017, 95, 123-137.e8.	3.8	141
34	Structural insights into the nucleotide base specificity of P2X receptors. <i>Scientific Reports</i> , 2017, 7, 45208.	1.6	41
35	A long-range cis-regulatory element for class I odorant receptor genes. <i>Nature Communications</i> , 2017, 8, 885.	5.8	28
36	Exocrine Gland-Secreting Peptide 1 Is a Key Chemosensory Signal Responsible for the Bruce Effect in Mice. <i>Current Biology</i> , 2017, 27, 3197-3201.e3.	1.8	25

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37	Male mice ultrasonic vocalizations enhance female sexual approach and hypothalamic kisspeptin neuron activity. <i>Hormones and Behavior</i> , 2017, 94, 53-60.	1.0	41
38	Vertebrate Odorant Receptors. , 2016, , 49-66.		5
39	Self-Exposure to the Male Pheromone ESP1 Enhances Male Aggressiveness in Mice. <i>Current Biology</i> , 2016, 26, 1229-1234.	1.8	37
40	Ligand Specificity and Evolution of Mammalian Musk Odor Receptors: Effect of Single Receptor Deletion on Odor Detection. <i>Journal of Neuroscience</i> , 2016, 36, 4482-4491.	1.7	53
41	Child Odors and Parenting: A Survey Examination of the Role of Odor in Child-Rearing. <i>PLoS ONE</i> , 2016, 11, e0154392.	1.1	18
42	Mechanisms of Musk Odor Perception. <i>Kagaku To Seibutsu</i> , 2015, 53, 774-781.	0.0	0
43	Modification of Male Courtship Motivation by Olfactory Habituation via the GABAA Receptor in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2015, 10, e0135186.	1.1	9
44	Light generation of intracellular Ca ²⁺ signals by a genetically encoded protein BACCS. <i>Nature Communications</i> , 2015, 6, 8021.	5.8	67
45	Amino acid coevolution reveals three-dimensional structure and functional domains of insect odorant receptors. <i>Nature Communications</i> , 2015, 6, 6077.	5.8	113
46	Enantioselective recognition of menthol by mouse odorant receptors. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 1980-1986.	0.6	6
47	Frontiers in the olfactory research : from odor signals, to receptors, and to the brain. <i>Journal of Japan Association on Odor Environment</i> , 2015, 46, 259-260.	0.1	0
48	Odor and Pheromone Molecules, Receptors, and Behavioral Responses. , 2014, , 19-38.		3
49	Evaluation of the Role of G Protein-Coupled Receptor Kinase 3 in Desensitization of Mouse Odorant Receptors in a Mammalian Cell Line and in Olfactory Sensory Neurons. <i>Chemical Senses</i> , 2014, 39, 771-780.	1.1	14
50	Extreme expansion of the olfactory receptor gene repertoire in African elephants and evolutionary dynamics of orthologous gene groups in 13 placental mammals. <i>Genome Research</i> , 2014, 24, 1485-1496.	2.4	287
51	Olfactory Receptor and Neural Pathway Responsible for Highly Selective Sensing of Musk Odors. <i>Neuron</i> , 2014, 81, 165-178.	3.8	87
52	Structure and function of a peptide pheromone family that stimulate the vomeronasal sensory system in mice. <i>Biochemical Society Transactions</i> , 2014, 42, 873-877.	1.6	15
53	A juvenile mouse pheromone inhibits sexual behaviour through the vomeronasal system. <i>Nature</i> , 2013, 502, 368-371.	13.7	151
54	An unsaturated aliphatic alcohol as a natural ligand for a mouse odorant receptor. <i>Nature Chemical Biology</i> , 2013, 9, 160-162.	3.9	65

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55	Extracellular Modulation of the Silkworm Sex Pheromone Receptor Activity by Cyclic Nucleotides. PLoS ONE, 2013, 8, e63774.	1.1	7
56	Amino Acid Residues Contributing to Function of the Heteromeric Insect Olfactory Receptor Complex. PLoS ONE, 2012, 7, e32372.	1.1	131
57	The scent of disease: volatile organic compounds of the human body related to disease and disorder. Journal of Biochemistry, 2011, 150, 257-266.	0.9	446
58	The male mouse pheromone ESP1 enhances female sexual receptive behaviour through a specific vomeronasal receptor. Nature, 2010, 466, 118-122.	13.7	340
59	Dimethyl Trisulfide as a Characteristic Odor Associated with Fungating Cancer Wounds. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2117-2120.	0.6	75
60	Mammalian olfactory receptors: pharmacology, G protein coupling and desensitization. Cellular and Molecular Life Sciences, 2009, 66, 3743-3753.	2.4	98
61	Sensing Odorants and Pheromones with Chemosensory Receptors. Annual Review of Physiology, 2009, 71, 307-332.	5.6	487
62	Molecular Biology of Peptide Pheromone Production and Reception in Mice. Advances in Genetics, 2007, 59, 147-171.	0.8	24
63	Deorphanizing vertebrate olfactory receptors: Recent advances in odorant-response assays. Neurochemistry International, 2007, 51, 132-139.	1.9	59
64	Sex- and Strain-Specific Expression and Vomeronasal Activity of Mouse ESP Family Peptides. Current Biology, 2007, 17, 1879-1884.	1.8	135
65	Odorant Receptor Map in the Mouse Olfactory Bulb: In Vivo Sensitivity and Specificity of Receptor-Defined Glomeruli. Neuron, 2006, 52, 857-869.	3.8	172
66	Sex-specific peptides from exocrine glands stimulate mouse vomeronasal sensory neurons. Nature, 2005, 437, 898-901.	13.7	335
67	Insect Sex-Pheromone Signals Mediated by Specific Combinations of Olfactory Receptors. Science, 2005, 307, 1638-1642.	6.0	466
68	Structural Basis for a Broad But Selective Ligand Spectrum of a Mouse Olfactory Receptor: Mapping the Odorant-Binding Site. Journal of Neuroscience, 2005, 25, 1806-1815.	1.7	278
69	Identification and functional characterization of a sex pheromone receptor in the silkworm <i>Bombyx mori</i> . Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16653-16658.	3.3	366
70	Structural determinants for membrane trafficking and Gprotein selectivity of a mouse olfactory receptor. Journal of Neurochemistry, 2004, 90, 1453-1463.	2.1	73
71	Olfactory receptor antagonism between odorants. EMBO Journal, 2004, 23, 120-126.	3.5	237
72	Odorant response assays for a heterologously expressed olfactory receptor. Biochemical and Biophysical Research Communications, 2003, 305, 964-969.	1.0	122

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73	Molecular Bases of Odor Discrimination: Reconstitution of Olfactory Receptors that Recognize Overlapping Sets of Odorants. <i>Journal of Neuroscience</i> , 2001, 21, 6018-6025.	1.7	322