

Hiroyuki Arakawa

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,008
citations

201674

27
h-index

254184

43
g-index

55
all docs

55
docs citations

55
times ranked

2354
citing authors

#	ARTICLE	IF	CITATIONS
1	Scent marking behavior as an odorant communication in mice. <i>Neuroscience and Biobehavioral Reviews</i> , 2008, 32, 1236-1248.	6.1	193
2	Ethological approach to social isolation effects in behavioral studies of laboratory rodents. <i>Behavioural Brain Research</i> , 2018, 341, 98-108.	2.2	118
3	From models to mechanisms: Odorant communication as a key determinant of social behavior in rodents during illness-associated states. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 1916-1928.	6.1	108
4	Oxytocin and vasopressin in the medial amygdala differentially modulate approach and avoidance behavior toward illness-related social odor. <i>Neuroscience</i> , 2010, 171, 1141-1151.	2.3	101
5	Cholesterol-metabolizing enzyme cytochrome P450 46A1 as a pharmacologic target for Alzheimer's disease. <i>Neuropharmacology</i> , 2017, 123, 465-476.	4.1	81
6	Colony formation of C57BL/6J mice in visible burrow system: Identification of eusocial behaviors in a background strain for genetic animal models of autism. <i>Behavioural Brain Research</i> , 2007, 176, 27-39.	2.2	80
7	A new test paradigm for social recognition evidenced by urinary scent marking behavior in C57BL/6J mice. <i>Behavioural Brain Research</i> , 2008, 190, 97-104.	2.2	73
8	The effects of isolation rearing on open-field behavior in male rats depends on developmental stages. <i>Developmental Psychobiology</i> , 2003, 43, 11-19.	1.6	70
9	Interaction between isolation rearing and social development on exploratory behavior in male rats. <i>Behavioural Processes</i> , 2005, 70, 223-234.	1.1	66
10	Role of whiskers in sensorimotor development of C57BL/6 mice. <i>Behavioural Brain Research</i> , 2015, 287, 146-155.	2.2	66
11	Sickness-related odor communication signals as determinants of social behavior in rat: A role for inflammatory processes. <i>Hormones and Behavior</i> , 2010, 57, 330-341.	2.1	64
12	Central infusion of interleukin-1 receptor antagonist blocks the reduction in social behavior produced by prior stressor exposure. <i>Physiology and Behavior</i> , 2009, 98, 139-146.	2.1	61
13	Motor-Coordination and Cognitive Dysfunction Caused by Mutant TDP-43 Could Be Reversed by Inhibiting Its Mitochondrial Localization. <i>Molecular Therapy</i> , 2017, 25, 127-139.	8.2	58
14	Scent marking behavior in male C57BL/6J mice: Sexual and developmental determination. <i>Behavioural Brain Research</i> , 2007, 182, 73-79.	2.2	55
15	The Receptor Guanylyl Cyclase Type D (GC-D) Ligand Uroguanylin Promotes the Acquisition of Food Preferences in Mice. <i>Chemical Senses</i> , 2013, 38, 391-397.	2.0	43
16	Thalamic NMDA Receptor Function Is Necessary for Patterning of the Thalamocortical Somatosensory Map and for Sensorimotor Behaviors. <i>Journal of Neuroscience</i> , 2014, 34, 12001-12014.	3.6	43
17	Age dependent effects of space limitation and social tension on open-field behavior in male rats. <i>Physiology and Behavior</i> , 2005, 84, 429-436.	2.1	42
18	In vivo imaging of brain metabolism activity using a phosphorescent oxygen-sensitive probe. <i>Journal of Neuroscience Methods</i> , 2013, 216, 146-151.	2.5	40

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19	Acute illness induces the release of aversive odor cues from adult, but not prepubertal, male rats and suppresses social investigation by conspecifics.. Behavioral Neuroscience, 2009, 123, 964-978.	1.2	37
20	Effects of the Estrous Cycle and Ovarian Hormones on Central Expression of Interleukin-1 Evoked by Stress in Female Rats. Neuroendocrinology, 2014, 100, 162-177.	2.5	36
21	Ontogeny of sex differences in defensive burying behavior in rats: effect of social isolation. Aggressive Behavior, 2007, 33, 38-47.	2.4	35
22	Central oxytocin regulates social familiarity and scent marking behavior that involves amicable odor signals between male mice. Physiology and Behavior, 2015, 146, 36-46.	2.1	35
23	Ontogenetic interaction between social relationships and defensive burying behavior in the rat. Physiology and Behavior, 2007, 90, 751-759.	2.1	31
24	Ethological and multi-behavioral analysis of learning and memory performance in laboratory rodent models. Neuroscience Research, 2018, 135, 1-12.	1.9	31
25	Wireless Optogenetic Modulation of Cortical Neurons Enabled by Radioluminescent Nanoparticles. ACS Nano, 2021, 15, 5201-5208.	14.6	31
26	Urea cycle disorder in C3H/HeJ mice with juvenile steatosis of viscera. FEBS Letters, 1990, 260, 119-121.	2.8	30
27	Social features of scent-donor mice modulate scent marking of C57BL/6J recipient males. Behavioural Brain Research, 2009, 205, 138-145.	2.2	29
28	Lack of TRPM5-Expressing Microvillous Cells in Mouse Main Olfactory Epithelium Leads to Impaired Odor-Evoked Responses and Olfactory-Guided Behavior in a Challenging Chemical Environment. ENeuro, 2017, 4, ENEURO.0135-17.2017.	1.9	28
29	Changes in the pattern of exploratory behavior are associated with the emergence of social dominance relationships in male rats. Developmental Psychobiology, 2006, 48, 39-47.	1.6	21
30	Validation of a novel social investigation task that may dissociate social motivation from exploratory activity. Behavioural Brain Research, 2009, 199, 326-333.	2.2	20
31	The role of neuroinflammation in the release of aversive odor cues from footshock-stressed rats: Implications for the neural mechanism of alarm pheromone. Psychoneuroendocrinology, 2011, 36, 557-568.	2.7	20
32	Neurofibromatosis type 1 alternative splicing is a key regulator of Ras/ERK signaling and learning behaviors in mice. Human Molecular Genetics, 2017, 26, 3797-3807.	2.9	20
33	The effects of age and isolation period on two phases of behavioral response to foot shock in isolation-reared rats. Developmental Psychobiology, 2002, 41, 15-24.	1.6	19
34	Implication of the social function of excessive self-grooming behavior in BTBR T+ltpr3tf/J mice as an idiopathic model of autism. Physiology and Behavior, 2021, 237, 113432.	2.1	18
35	TDP-43 inhibitory peptide alleviates neurodegeneration and memory loss in an APP transgenic mouse model for Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165580.	3.8	17
36	Involvement of serotonin and oxytocin in neural mechanism regulating amicable social signal in male mice: Implication for impaired recognition of amicable cues in BALB/c strain.. Behavioral Neuroscience, 2017, 131, 176-191.	1.2	17

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37	Age-dependent change in exploratory behavior of male rats following exposure to threat stimulus: Effect of juvenile experience. <i>Developmental Psychobiology</i> , 2007, 49, 522-530.	1.6	16
38	Chemogenetics drives paradigm change in the investigation of behavioral circuits and neural mechanisms underlying drug action. <i>Behavioural Brain Research</i> , 2021, 406, 113234.	2.2	16
39	From Multisensory Assessment to Functional Interpretation of Social Behavioral Phenotype in Transgenic Mouse Models for Autism Spectrum Disorders. <i>Frontiers in Psychiatry</i> , 2020, 11, 592408.	2.6	16
40	Somatosensorimotor and Odor Modification, Along with Serotonergic Processes Underlying the Social Deficits in BTBR T+ Itpr3tf/J and BALB/cj Mouse Models of Autism. <i>Neuroscience</i> , 2020, 445, 144-162.	2.3	15
41	Attractiveness of illness-associated odorant cues in female rats is modulated by ovarian hormones, but not associated with pro-inflammatory cytokine levels. <i>Brain, Behavior, and Immunity</i> , 2012, 26, 40-49.	4.1	14
42	Behavioral Consequences of a Bifacial Map in the Mouse Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 7209-7218.	3.6	14
43	Region-Specific Disruption of Adenylate Cyclase Type 1 Gene Differentially Affects Somatosensorimotor Behaviors in Mice. <i>ENeuro</i> , 2014, 1, ENEURO.0007-14.2014.	1.9	13
44	Sensorimotor developmental factors influencing the performance of laboratory rodents on learning and memory. <i>Behavioural Brain Research</i> , 2019, 375, 112140.	2.2	13
45	Long-Term Deficits in Behavior Performances Caused by Low- and High-Linear Energy Transfer Radiation. <i>Radiation Research</i> , 2017, 188, 752-760.	1.5	12
46	Analysis of Social Process in Two Inbred Strains of Male Mice: A Predominance of Contact-Based Investigation in BALB/c Mice. <i>Neuroscience</i> , 2018, 369, 124-138.	2.3	12
47	Dynamic regulation of oxytocin neuronal circuits in the sequential processes of prosocial behavior in rodent models. <i>Current Research in Neurobiology</i> , 2021, 2, 100011.	2.3	9
48	Age and sex differences in the innate defensive behaviors of C57BL/6 mice exhibited in a fear conditioning paradigm and upon exposure to a predatory odor. <i>Physiology and Behavior</i> , 2019, 204, 264-274.	2.1	7
49	Restraint stress activates defensive behaviors in male rats depending on age and housing condition. <i>Physiology and Behavior</i> , 2020, 224, 113073.	2.1	4
50	Exocrine scent marking: Coordinative role of arginine vasopressin in the systemic regulation of social signaling behaviors. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 136, 104597.	6.1	4
51	Contrasting central and systemic effects of arginine-vasopressin on urinary marking behavior as a social signal in male mice. <i>Hormones and Behavior</i> , 2022, 141, 105128.	2.1	3
52	Region-Specific Disruption of Adenylate Cyclase Type 1 Gene Differentially Affects Somatosensorimotor Behaviors in Mice. <i>ENeuro</i> , 2014, 1, .	1.9	2
53	Effects of gastric inhibitory polypeptide (GIP) immunoneutralization on mouse motor coordination and memory. <i>Peptides</i> , 2020, 125, 170227.	2.4	0
54	In search of the neural circuits for prosocial behavior using rodent models: From Psychology to Behavioral Neuroscience. <i>The Proceedings of the Annual Convention of the Japanese Psychological Association</i> , 2019, 83, ITL-004-ITL-004.	0.0	0