Michael G Tordoff

List of Publications by Year
in descending order

121 papers	5,502 citations	70961 41 h-index	91712 69 g-index
125 all docs	125 docs citations	125 times ranked	4890 citing authors

#	Article	IF	Citations
1	Food intake, water intake, and drinking spout side preference of 28 mouse strains. Behavior Genetics, 2002, 32, 435-443.	1.4	560
2	CALHM1 ion channel mediates purinergic neurotransmission of sweet, bitter and umami tastes. Nature, 2013, 495, 223-226.	13.7	405
3	Heritable variation in food preferences and their contribution to obesity. Behavior Genetics, 1997, 27, 373-387.	1.4	175
4	Polymorphisms in the Taste Receptor Gene (Tas1r3) Region Are Associated with Saccharin Preference in 30 Mouse Strains. Journal of Neuroscience, 2004, 24, 938-946.	1.7	169
5	Ethanol Consumption and Taste Preferences in C57BL/6ByJ and 129/J Mice. Alcoholism: Clinical and Experimental Research, 1996, 20, 201-206.	1.4	158
6	Integrated metabolic control of food intake. Brain Research Bulletin, 1986, 17, 855-859.	1.4	155
7	Calcium: Taste, Intake, and Appetite. Physiological Reviews, 2001, 81, 1567-1597.	13.1	154
8	CALHM3 Is Essential for Rapid Ion Channel-Mediated Purinergic Neurotransmission of GPCR-Mediated Tastes. Neuron, 2018, 98, 547-561.e10.	3.8	137
9	Intake of ethanol, sodium chloride, sucrose, citric acid, and quinine hydrochloride solutions by mice: A genetic analysis. Behavior Genetics, 1996, 26, 563-573.	1.4	127
10	Sucrose consumption in mice: Major influence of two genetic Loci affecting peripheral sensory responses. Mammalian Genome, 1997, 8, 545-548.	1.0	121
11	High-resolution genetic mapping of the saccharin preference locus (Sac) and the putative sweet taste receptor (T1R1) gene (Gpr70) to mouse distal Chromosome 4. Mammalian Genome, 2001, 12, 13-16.	1.0	114
12	Nutrient preference and diet-induced adiposity in C57BL/6ByJ and 129P3/J mice. Physiology and Behavior, 2001, 72, 603-613.	1.0	109
13	Forty mouse strain survey of body composition. Physiology and Behavior, 2007, 91, 593-600.	1.0	100
14	Preferences of 14 rat strains for 17 taste compounds. Physiology and Behavior, 2008, 95, 308-332.	1.0	93
15	Reduced body weight is a common effect of gene knockout in mice. BMC Genetics, 2008, 9, 4.	2.7	85
16	Allelic Variation of the Tas1r3 Taste Receptor Gene Selectively Affects Behavioral and Neural Taste Responses to Sweeteners in the F2 Hybrids between C57BL/6ByJ and 129P3/J Mice. Journal of Neuroscience, 2004, 24, 2296-2303.	1.7	84
17	Oral stimulation with aspartame increases hunger. Physiology and Behavior, 1990, 47, 555-559.	1.0	83
18	Genetic Analysis of Chemosensory Traits in Human Twins. Chemical Senses, 2012, 37, 869-881.	1.1	82

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19	Involvement of T1R3 in calcium-magnesium taste. Physiological Genomics, 2008, 34, 338-348.	1.0	73
20	Voluntary consumption of NaCl, KCl, CaCl2, and NH4Cl solutions by 28 mouse strains. Behavior Genetics, 2002, 32, 445-457.	1.4	72
21	Intake of Umami-Tasting Solutions by Mice: A Genetic Analysis. Journal of Nutrition, 2000, 130, 935S-941S.	1.3	67
22	Forty mouse strain survey of water and sodium intake. Physiology and Behavior, 2007, 91, 620-631.	1.0	67
23	T1R3: A human calcium taste receptor. Scientific Reports, 2012, 2, 496.	1.6	66
24	Some Basic Psychophysics of Calcium Salt Solutions. Chemical Senses, 1996, 21, 417-424.	1.1	64
25	Genetics of Amino Acid Taste and Appetite. Advances in Nutrition, 2016, 7, 806S-822S.	2.9	64
26	Mouse Taste Preference Tests: Why Only Two Bottles?. Chemical Senses, 2003, 28, 315-324.	1.1	58
27	Food flavor preferences produced by drinking glucose and oil in normal and diabetic rats: Evidence for conditioning based on fuel oxidation. Physiology and Behavior, 1987, 41, 481-487.	1.0	57
28	Voluntary sodium chloride consumption by mice: differences among five inbred strains. Behavior Genetics, 1998, 28, 117-124.	1.4	55
29	Voluntary Ethanol Consumption by Mice: Genome-Wide Analysis of Quantitative Trait Loci and Their Interactions in a C57BL/6ByJ x 129P3/J F2 Intercross. Genome Research, 2002, 12, 1257-1268.	2.4	52
30	Pica as an adaptive response: Kaolin consumption helps rats recover from chemotherapy-induced illness. Physiology and Behavior, 2009, 97, 87-90.	1.0	52
31	Obesity by choice: the powerful influence of nutrient availability on nutrient intake. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R1536-R1539.	0.9	51
32	Dietary hyperphagia and obesity: What causes them?. Physiology and Behavior, 1989, 45, 163-168.	1.0	50
33	Drinking saccharin increases food intake and preferenceâ€"IV. Cephalic phase and metabolic factors. Appetite, 1989, 12, 37-56.	1.8	50
34	Hepatic vagotomy (partial hepatic denervation) does not alter ingestive responses to metabolic challenges. Physiology and Behavior, 1982, 28, 417-424.	1.0	49
35	Loci on Chromosomes 2, 4, 9, and 16 for body weight, body length, and adiposity identified in a genome scan of an F 2 intercross between the 129P3/J and C57BL/6ByJ mouse strains. Mammalian Genome, 2003, 14, 302-313.	1.0	49
36	No effect of dietary calcium on body weight of lean and obese mice and rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R669-R677.	0.9	48

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37	Glutamate taste and appetite in laboratory mice: physiologic and genetic analyses. American Journal of Clinical Nutrition, 2009, 90, 756S-763S.	2.2	48
38	The Maintenance Diets of C57BL/6J and 129X1/SvJ Mice Influence Their Taste Solution Preferences: Implications for Large-Scale Phenotyping Projects. Journal of Nutrition, 2002, 132, 2288-2297.	1.3	47
39	Forty mouse strain survey of voluntary calcium intake, blood calcium, and bone mineral content. Physiology and Behavior, 2007, 91, 632-643.	1.0	44
40	Flavor preferences and fructose: Evidence that the liver detects the unconditioned stimulus for calorie-based learning. Appetite, 1990, 14, 29-44.	1.8	42
41	Salty Taste Deficits in CALHM1 Knockout Mice. Chemical Senses, 2014, 39, 515-528.	1.1	38
42	Influence of Test Duration on the Sensitivity of the Two-bottle Choice Test. Chemical Senses, 2002, 27, 759-768.	1.1	37
43	Drinking saccharin increases food intake and preferenceâ€"I. Comparison with other drinks. Appetite, 1989, 12, 1-10.	1.8	35
44	CALHM1-Mediated ATP Release and Ciliary Beat Frequency Modulation in Nasal Epithelial Cells. Scientific Reports, 2017, 7, 6687.	1.6	34
45	Effects of hepatic denervation on the anorexic response to epinephrine, amphetamine, and lithium chloride: A behavioral identification of glucostatic afferents.. Journal of Comparative and Physiological Psychology, 1982, 96, 361-375.	1.8	33
46	Sham-feeding of corn oil by rats: Sensory and postingestive factors. Physiology and Behavior, 1990, 47, 779-781.	1.0	33
47	Role of vagal afferent innervation in feeding and brain Fos expression produced by metabolic inhibitors. Brain Research, 2001, 919, 198-206.	1.1	32
48	Taste Solution Preferences of C57BL/6J and 129X1/SvJ Mice: Influence of Age, Sex, and Diet. Chemical Senses, 2007, 32, 655-671.	1.1	32
49	Quantitative trait loci for individual adipose depot weights in C57BL/6ByJ x 129P3/J F2 mice. Mammalian Genome, 2006, 17, 1065-1077.	1.0	30
50	ERK1/2 activation in human taste bud cells regulates fatty acid signaling and gustatory perception of fat in mice and humans. FASEB Journal, 2016, 30, 3489-3500.	0.2	30
51	Salt intake of rats fed diets deficient in calcium, iron, magnesium, phosphorus, potassium, or all minerals. Appetite, 1992, 18, 29-41.	1.8	29
52	Vegetable bitterness is related to calcium content. Appetite, 2009, 52, 498-504.	1.8	29
53	The Taste of Caffeine. Journal of Caffeine Research, 2017, 7, 39-52.	1.0	29
54	Calcium deprivation increases the palatability of calcium solutions in rats. Physiology and Behavior, 2005, 84, 335-342.	1.0	28

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55	Calcium Deficiency Alters Chorda Tympani Nerve Responses to Oral Calcium Chloride. Physiology and Behavior, 1998, 63, 297-303.	1.0	27
56	Body fat distribution and organ weights of 14 common strains and a 22-strain consomic panel of rats. Physiology and Behavior, 2011, 103, 523-529.	1.0	27
57	How do non-nutritive sweeteners increase food intake?. Appetite, 1988, 11, 5-11.	1.8	26
58	Magnesium appetite in the rat. Appetite, 2002, 38, 29-38.	1.8	26
59	Normal Taste Acceptance and Preference of PANX1 Knockout Mice. Chemical Senses, 2015, 40, 453-459.	1.1	26
60	Contribution of fat metabolism to â€˜glucoprivicâ€™ feeding produced by fourth ventricular 5-thio-d-glucose. Brain Research, 1988, 445, 216-221.	1.1	25
61	No Relationship between Sequence Variation in Protein Coding Regions of the Tas1r3 Gene and Saccharin Preference in Rats. Chemical Senses, 2005, 30, 231-240.	1.1	25
62	Calcium taste preferences: genetic analysis and genome screen of C57BL/6Jâ€ƒÃ—â€ƒPWK/PhJ hybrid mice. Genes, Brain and Behavior, 2008, 7, 618-628.	1.1	25
63	No effects of monosodium glutamate consumption on the body weight or composition of adult rats and mice. Physiology and Behavior, 2012, 107, 338-345.	1.0	25
64	Drinking saccharin increases food intake and preferenceâ€”II. Hydrational factors. Appetite, 1989, 12, 11-21.	1.8	24
65	A peripheral locus for amphetamine anorexia. Nature, 1982, 297, 148-150.	13.7	23
66	Taste dysfunction in BTBR mice due to a mutation ofItpr3, the inositol triphosphate receptor 3 gene. Physiological Genomics, 2013, 45, 834-855.	1.0	23
67	QTL Analysis of Dietary Obesity in C57BL/6byj X 129P3/J F2 Mice: Diet- and Sex-Dependent Effects. PLoS ONE, 2013, 8, e68776.	1.1	21
68	Sodium depletion increases rats' preferences for salted food.. Behavioral Neuroscience, 1988, 102, 565-573.	0.6	20
69	Experience with a macronutrient source influences subsequent macronutrient selection. Appetite, 1992, 18, 223-232.	1.8	19
70	Influence of sympathectomy on the lateral hypothalamic lesion syndrome.. Behavioral Neuroscience, 1984, 98, 1039-1059.	0.6	18
71	Genetic, physical, and comparative map of the subtelomeric region of mouse Chromosome 4. Mammalian Genome, 2002, 13, 5-19.	1.0	18
72	A locus on mouse Chromosome 9 (Adip5) affects the relative weight of the gonadal but not retroperitoneal adipose depot. Mammalian Genome, 2006, 17, 1078-1092.	1.0	18

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73	Drinking saccharin increases food intake and preferenceâ€"III. Sensory and associative factors. Appetite, 1989, 12, 23-36.	1.8	17
74	Sham-feeding sucrose or corn oil stimulates food intake in rats. Appetite, 1991, 17, 97-103.	1.8	16
75	The importance of calcium in the control of salt intake. Neuroscience and Biobehavioral Reviews, 1996, 20, 89-99.	2.9	16
76	Calcium-Deprived Rats Avoid Sweet Compounds. Journal of Nutrition, 1998, 128, 1232-1238.	1.3	16
77	Calcium deprivation alters gustatory-evoked activity in the rat nucleus of the solitary tract. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R971-R978.	0.9	15
78	Modification of Behavioral and Neural Taste Responses to NaCl in C57BL/6 Mice. Physiology and Behavior, 1998, 65, 817-822.	1.0	14
79	Intragastric calcium infusions support flavor preference learning by calcium-deprived rats. Physiology and Behavior, 2002, 76, 521-529.	1.0	14
80	Genetic loci affecting body weight and fatness in a C57BL/6J Ã— PWK/PhJ mouse intercross. Mammalian Genome, 2007, 18, 839-851.	1.0	14
81	Gene discovery and the genetic basis of calcium consumption. Physiology and Behavior, 2008, 94, 649-659.	1.0	14
82	Does eating good-tasting food influence body weight?. Physiology and Behavior, 2017, 170, 27-31.	1.0	13
83	Phosphorus Taste Involves T1R2 and T1R3. Chemical Senses, 2017, 42, 425-433.	1.1	13
84	Understanding the evolution of nutritive taste in animals: Insights from biological stoichiometry and nutritional geometry. Ecology and Evolution, 2021, 11, 8441-8455.	0.8	13
85	Learned preferences for the flavor of salted food. Physiology and Behavior, 1993, 54, 999-1004.	1.0	12
86	Maltodextrin Acceptance and Preference in Eight Mouse Strains. Chemical Senses, 2016, 41, 45-52.	1.1	12
87	Different effects of three aldosterone treatments on plasma aldosterone and salt intake. Physiology and Behavior, 1993, 54, 129-134.	1.0	11
88	Satiety from fat? Adverse effects of intestinal infusion of sodium oleate. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R1779-R1785.	0.9	11
89	Calcium intake by rats: influence of parathyroid hormone, calcitonin, and 1,25-dihydroxyvitamin D. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R214-R231.	0.9	11
90	Lesions of the subfornical organ decrease the calcium appetite of calcium-deprived rats. Physiology and Behavior, 2003, 79, 605-612.	1.0	10

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91	Mice acquire flavor preferences during shipping. Physiology and Behavior, 2005, 86, 480-486.	1.0	10
92	Guanethidine sympathectomy does not prevent meal-induced increases in the weight or oxygen consumption of brown fat. Physiology and Behavior, 1984, 33, 975-979.	1.0	9
93	Some failures of intragastric NaCl infusions to support flavor preference learning. Physiology and Behavior, 2002, 76, 511-519.	1.0	9
94	Meal patterns and glucoprivic feeding in the guanethidine-sympathectomized, adrenodemedullated rat. Physiology and Behavior, 1984, 32, 229-235.	1.0	8
95	Taste and acceptance of pyrophosphates by rats and mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R2159-R2167.	0.9	8
96	Comparison of differences between PWD/PhJ and C57BL/6J mice in calcium solution preferences and chorda tympani nerve responses. Physiology and Behavior, 2011, 102, 496-502.	1.0	8
97	Gastric mucosal damage induced by lateral hypothalamic lesions in rats: The potential contribution of bile. Brain Research Bulletin, 1983, 10, 441-444.	1.4	7
98	Influence of sympathectomy on body weight of rats given chow or supermarket diets. Physiology and Behavior, 1985, 35, 455-463.	1.0	7
99	Low-calcium diet prevents fructose-induced hyperinsulinemia and ameliorates the response to glucose load in rats. Nutrition and Metabolism, 2015, 12, 38.	1.3	7
100	Effect of chronic ouabain infusion on food, water, and nacl intake, body composition, and plasma hormones of sprague-dawley rats. Physiology and Behavior, 1996, 59, 87-92.	1.0	6
101	NaCl consumption is attenuated in female KCNE1 null mutant mice. Physiology and Behavior, 2001, 74, 267-276.	1.0	6
102	Taste Solution Consumption by FHH-Chr nBN Consomic Rats. Chemical Senses, 2010, 35, 473-489.	1.1	6
103	Itpr3 Is Responsible for the Mouse Tufted (tf) Locus. Journal of Heredity, 2013, 104, 295-297.	1.0	6
104	Macronutrient selection by seven inbred mouse strains and three taste-related knockout strains. Physiology and Behavior, 2014, 135, 49-54.	1.0	6
105	Calcium deprivation increases NaCl intake of fischer-344 rats. Physiology and Behavior, 1991, 49, 113-115.	1.0	5
106	Altered hepatic metabolic response to carbohydrate loads in rats with hepatic branch vagotomy or cholinergic blockade. Journal of the Autonomic Nervous System, 1994, 47, 255-261.	1.9	5
107	Macronutrient choice of BTBR.NZW mice congenic for a 21-gene region of chromosome 17. Physiology and Behavior, 2012, 106, 556-561.	1.0	5
108	Heightened Avidity for Trisodium Pyrophosphate in Mice Lacking Tas1r3. Chemical Senses, 2015, 40, 53-59.	1.1	5

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109	Obesity in C57BL/6J mice fed diets differing in carbohydrate and fat but not energy content. Physiology and Behavior, 2022, 243, 113644.	1.0	5
110	Influence of oral and gastric NaCl preloads on NaCl intake and gastric emptying of sodium-deficient rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1152-R1160.	0.9	4
111	Chorda tympani nerve modulates the rat's avoidance of calcium chloride. Physiology and Behavior, 2012, 105, 1214-1218.	1.0	4
112	Taste Hedonics Influence the Disposition of Fat by Modulating Gastric Emptying in Rats. PLoS ONE, 2014, 9, e90717.	1.1	3
113	Influence of the number of repellent-treated and untreated food or water containers on intake by the European starling. Appetite, 2005, 45, 81-85.	1.8	2
114	Bursting by taste-responsive cells in the rodent brain stem. Journal of Neurophysiology, 2015, 113, 2434-2446.	0.9	2
115	Genetics of mouse behavioral and peripheral neural responses to sucrose. Mammalian Genome, 2021, 32, 51-69.	1.0	2
116	Genetic controls of Tas1r3-independent sucrose consumption in mice. Mammalian Genome, 2021, 32, 70-93.	1.0	2
117	Rats Eating Together Prefer the Taste of Their Food. Annals of the New York Academy of Sciences, 1987, 510, 263-264.	1.8	1
118	Genetics of Sweet Taste. ACS Symposium Series, 2002, , 40-51.	0.5	1
119	Influence of estrous and circadian cycles on calcium intake of the rat. Physiology and Behavior, 2013, 112-113, 56-60.	1.0	1
120	The Case for a Calcium Appetite in Humans. , 2006, , 247-266.		1
121	Influence of cross-fostering on preference for calcium chloride in C57BL/6J and PWK/PhJ mice. Physiology and Behavior, 2013, 122, 159-162.	1.0	0