

The cells and logic for mammalian sour taste detection

Nature

442, 934-938

DOI: [10.1038/nature05084](https://doi.org/10.1038/nature05084)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Artificial taste sensors: An overview. , 2006, , .		2
2	Coding channels for taste perception: information transmission from taste cells to gustatory nerve fibers. Archives of Histology and Cytology, 2006, 69, 233-242.	0.2	31
3	Acid-sensing ion channels in taste buds. Archives of Histology and Cytology, 2006, 69, 227-231.	0.2	34
4	The neural mechanisms of gustation: a distributed processing code. Nature Reviews Neuroscience, 2006, 7, 890-901.	4.9	304
5	The receptors and cells for mammalian taste. Nature, 2006, 444, 288-294.	13.7	1,361
7	Human Taste Thresholds Are Modulated by Serotonin and Noradrenaline. Journal of Neuroscience, 2006, 26, 12664-12671.	1.7	171
8	Inhibition of TRPP3 Channel by Amiloride and Analogs. Molecular Pharmacology, 2007, 72, 1576-1585.	1.0	60
9	Breadth of Tuning and Taste Coding in Mammalian Taste Buds. Journal of Neuroscience, 2007, 27, 10840-10848.	1.7	230
10	Twin Study of the Heritability of Recognition Thresholds for Sour and Salty Taste. Chemical Senses, 2007, 32, 749-754.	1.1	89
11	Characterization of Ligands for Fish Taste Receptors. Journal of Neuroscience, 2007, 27, 5584-5592.	1.7	149
12	A Complex Relationship among Chemical Concentration, Detection Threshold, and Suprathreshold Intensity of Bitter Compounds. Chemical Senses, 2007, 32, 245-253.	1.1	147
15	Intestinal STC-1 cells respond to five basic taste stimuli. NeuroReport, 2007, 18, 1991-1995.	0.6	24
16	The transient receptor potential vanilloid-responsive 1 and 4 cation channels: role in neuronal osmosensing and renal physiology. Current Opinion in Nephrology and Hypertension, 2007, 16, 451-458.	1.0	20
17	Transient receptor potential channel M5 and phospholipaseC- β 2 colocalizing in zebrafish taste receptor cells. NeuroReport, 2007, 18, 1517-1520.	0.6	28
18	Sensor arrays for liquid sensing "electronic tongue" systems. Analyst, The, 2007, 132, 963.	1.7	358
19	Innate versus learned odour processing in the mouse olfactory bulb. Nature, 2007, 450, 503-508.	13.7	596
20	Transient Receptor Potential Cation Channels in Disease. Physiological Reviews, 2007, 87, 165-217.	13.1	1,260
21	A Near-Infrared Cell Tracker Reagent for Multiscopic In Vivo Imaging and Quantification of Leukocyte Immune Responses. PLoS ONE, 2007, 2, e1075.	1.1	59

#	ARTICLE	IF	CITATIONS
22	Effect of Nicotine on Chorda Tympani Responses to Salty and Sour Stimuli. <i>Journal of Neurophysiology</i> , 2007, 98, 1662-1674.	0.9	19
23	Biogenic amine synthesis and uptake in rodent taste buds. <i>Journal of Comparative Neurology</i> , 2007, 505, 302-313.	0.9	80
24	TRP channels and lipids: from <i>Drosophila</i> to mammalian physiology. <i>Journal of Physiology</i> , 2007, 578, 9-24.	1.3	158
26	The Chemistry and Physiology of Sour Taste? A Review. <i>Journal of Food Science</i> , 2007, 72, R33-R38.	1.5	108
27	Direct binding of α -casein enhances TRPP3 channel activity. <i>Journal of Neurochemistry</i> , 2007, 103, 2391-2400.	2.1	77
28	TRPM5, a taste-signaling transient receptor potential ion-channel, is a ubiquitous signaling component in chemosensory cells. <i>BMC Neuroscience</i> , 2007, 8, 49.	0.8	198
29	Behavioral genetics and taste. <i>BMC Neuroscience</i> , 2007, 8, S3.	0.8	44
30	Taste Receptor Genes. <i>Annual Review of Nutrition</i> , 2007, 27, 389-414.	4.3	373
31	Influence of temperature on taste perception. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 377-381.	2.4	71
32	Signal transduction and information processing in mammalian taste buds. <i>Pflügers Archiv European Journal of Physiology</i> , 2007, 454, 759-776.	1.3	251
33	Cytokeratin 14 is expressed in immature cells in rat taste buds. <i>Journal of Molecular Histology</i> , 2008, 39, 193-199.	1.0	40
34	TRP channels and mechanosensory transduction: insights into the arterial myogenic response. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 456, 529-540.	1.3	86
35	The taste of sugars. <i>Neuroscience and Biobehavioral Reviews</i> , 2008, 32, 1024-1043.	2.9	49
36	Now we are talking sense! Functional approaches to novel nutraceuticals and cosmeceuticals. <i>Biotechnology Journal</i> , 2008, 3, 1147-1156.	1.8	9
38	Submembraneous microtubule cytoskeleton: interaction of TRPP2 with the cell cytoskeleton. <i>FEBS Journal</i> , 2008, 275, 4675-4683.	2.2	31
39	Activation of TRPP2 through mDia1-dependent voltage gating. <i>EMBO Journal</i> , 2008, 27, 1345-1356.	3.5	37
40	Off-response property of an acid-activated cation channel complex PKD1L3-PKD2L1. <i>EMBO Reports</i> , 2008, 9, 690-697.	2.0	80
41	The pharmacological challenge to tame the transient receptor potential vanilloid 1 (TRPV1) nociceptor. <i>British Journal of Pharmacology</i> , 2008, 155, 1145-1162.	2.7	152

#	ARTICLE	IF	CITATIONS
42	Array painting reveals a high frequency of balanced translocations in breast cancer cell lines that break in cancer-relevant genes. <i>Oncogene</i> , 2008, 27, 3345-3359.	2.6	60
43	Presynaptic (Type III) cells in mouse taste buds sense sour (acid) taste. <i>Journal of Physiology</i> , 2008, 586, 2903-2912.	1.3	188
44	Modulation of taste sensitivity by GLP-1 signaling. <i>Journal of Neurochemistry</i> , 2008, 106, 455-463.	2.1	240
45	Central and Peripheral Regulation of Food Intake and Physical Activity: Pathways and Genes. <i>Obesity</i> , 2008, 16, S11-22.	1.5	257
46	Chemistry of Gustatory Stimuli. , 2008, , 27-74.		13
48	Genetic tracing of the gustatory and trigeminal neural pathways originating from T1R3-expressing taste receptor cells and solitary chemoreceptor cells. <i>Molecular and Cellular Neurosciences</i> , 2008, 38, 505-517.	1.0	86
49	Cracking taste codes by tapping into sensory neuron impulse traffic. <i>Progress in Neurobiology</i> , 2008, 86, 245-263.	2.8	33
50	The Brain, Appetite, and Obesity. <i>Annual Review of Psychology</i> , 2008, 59, 55-92.	9.9	546
52	Studies on Taste: Molecular Biology and Food Science. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 1647-1656.	0.6	11
53	A polycystin-1 controls postcopulatory reproductive selection in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8661-8666.	3.3	67
54	A study of the science of taste: On the origins and influence of the core ideas. <i>Behavioral and Brain Sciences</i> , 2008, 31, 59-75.	0.4	63
55	The labeled line / basic taste versus across-fiber pattern debate: A red herring?. <i>Behavioral and Brain Sciences</i> , 2008, 31, 79-80.	0.4	2
56	Should labeled lines and pattern models be either-or? Issues of scope and definition. <i>Behavioral and Brain Sciences</i> , 2008, 31, 89-90.	0.4	0
57	Synthesizing complex sensations from simple components. <i>Behavioral and Brain Sciences</i> , 2008, 31, 90-91.	0.4	0
58	Taste learning in rodents: Compounds and individual taste cues recognition. <i>Behavioral and Brain Sciences</i> , 2008, 31, 80-81.	0.4	1
59	Language does provide support for basic tastes. <i>Behavioral and Brain Sciences</i> , 2008, 31, 86-87.	0.4	10
60	Basic tastes as cognitive concepts and taste coding as more than spatial. <i>Behavioral and Brain Sciences</i> , 2008, 31, 78-79.	0.4	0
61	The neural structure and organization of taste. <i>Behavioral and Brain Sciences</i> , 2008, 31, 89-89.	0.4	0

#	ARTICLE	IF	CITATIONS
62	Taste quality coding in vertebrate receptor molecules and cells. Behavioral and Brain Sciences, 2008, 31, 82-83.	0.4	0
63	And what about basic odors?. Behavioral and Brain Sciences, 2008, 31, 87-88.	0.4	0
64	Salty, bitter, sweet and sour survive unscathed. Behavioral and Brain Sciences, 2008, 31, 76-77.	0.4	3
65	Mathematical techniques and the number of groups. Behavioral and Brain Sciences, 2008, 31, 83-84.	0.4	1
66	The complex facts of taste. Behavioral and Brain Sciences, 2008, 31, 85-86.	0.4	1
67	Basic tastes and basic emotions: Basic problems and perspectives for a nonbasic solution. Behavioral and Brain Sciences, 2008, 31, 88-88.	0.4	9
68	The pervasive core idea in taste is inadequate and misleading. Behavioral and Brain Sciences, 2008, 31, 91-105.	0.4	1
69	The nature of economical coding is determined by the unique properties of objects in the environment. Behavioral and Brain Sciences, 2008, 31, 81-82.	0.4	0
70	On the analysis of spatial neural codes in taste. Behavioral and Brain Sciences, 2008, 31, 84-85.	0.4	0
71	Basic tastes and unique hues. Behavioral and Brain Sciences, 2008, 31, 82-82.	0.4	1
72	Criteria for basic tastes and other sensory primaries. Behavioral and Brain Sciences, 2008, 31, 77-78.	0.4	0
73	Insights from the colour category controversy. Behavioral and Brain Sciences, 2008, 31, 75-76.	0.4	7
74	The Candidate Sour Taste Receptor, PKD2L1, Is Expressed by Type III Taste Cells in the Mouse. Chemical Senses, 2008, 33, 243-254.	1.1	174
75	Herbal Compounds and Toxins Modulating TRP Channels. Current Neuropharmacology, 2008, 6, 79-96.	1.4	155
76	Unfolding the codes of short-term feed appetite in farm and companion animals. A comparative oronasal nutrient sensing biology review. Canadian Journal of Animal Science, 2008, 88, 535-558.	0.7	66
77	Vertebrate Membrane Proteins: Structure, Function, and Insights from Biophysical Approaches. Pharmacological Reviews, 2008, 60, 43-78.	7.1	92
78	Making Sense of the Sweet Taste Receptor. ACS Symposium Series, 2008, , 48-64.	0.5	1
79	Food ingredients and cognitive performance. Current Opinion in Clinical Nutrition and Metabolic Care, 2008, 11, 706-710.	1.3	10

#	ARTICLE	IF	CITATIONS
80	Genetics and Evolution of Taste. , 2008, , 371-390.		3
81	Taste Transduction. , 2008, , 219-236.		4
82	Hedonic Taste in Drosophila Revealed by Olfactory Receptors Expressed in Taste Neurons. PLoS ONE, 2008, 3, e2610.	1.1	24
83	TASTE, SMELL AND CHEMESTHESIS IN PRODUCT EXPERIENCE. , 2008, , 91-131.		11
84	Mitochondrial Calcium Buffering Contributes to the Maintenance of Basal Calcium Levels in Mouse Taste Cells. Journal of Neurophysiology, 2008, 100, 2177-2191.	0.9	35
85	Variability in Responses and Temporal Coding of Tastants of Similar Quality in the Nucleus of the Solitary Tract of the Rat. Journal of Neurophysiology, 2008, 99, 644-655.	0.9	55
86	Taste Receptors. , 2008, , 197-217.		5
87	Central Neural Processing of Taste Information. , 2008, , 289-327.		2
88	Polycystic Kidney Disease. , 2009, , 393-424.		2
91	Sweet taste signaling functions as a hypothalamic glucose sensor. Frontiers in Integrative Neuroscience, 2009, 3, 12.	1.0	210
92	Genetic Variation in Taste and Its Influence on Food Selection. OMICS A Journal of Integrative Biology, 2009, 13, 69-80.	1.0	221
93	Gustation in Fish: Search for Prototype of Taste Perception. Results and Problems in Cell Differentiation, 2009, 47, 97-120.	0.2	20
94	Transient Receptor Potential (TRP) Channels and Taste Sensation. Journal of Dental Research, 2009, 88, 212-218.	2.5	64
95	Enigmatic Central Canal Contacting Cells: Immature Neurons in "Standby Mode". Journal of Neuroscience, 2009, 29, 10010-10024.	1.7	80
96	Sensory Attributes of Complex Tasting Divalent Salts Are Mediated by TRPM5 and TRPV1 Channels. Journal of Neuroscience, 2009, 29, 2654-2662.	1.7	45
97	2008 Homer W. Smith Award. Journal of the American Society of Nephrology: JASN, 2009, 20, 1188-1198.	3.0	51
98	Smelling the difference: controversial ideas in insect olfaction. Journal of Experimental Biology, 2009, 212, 1973-1979.	0.8	24
99	Responses of the Hamster Chorda Tympani Nerve to Sucrose+Acid and Sucrose+Citrate Taste Mixtures. Chemical Senses, 2009, 34, 607-616.	1.1	8

#	ARTICLE	IF	CITATIONS
100	Voltage-gated sodium channels in taste bud cells. <i>BMC Neuroscience</i> , 2009, 10, 20.	0.8	83
101	A taste of the <i>Drosophila</i> gustatory receptors. <i>Current Opinion in Neurobiology</i> , 2009, 19, 345-353.	2.0	258
102	Expression of the voltage-gated potassium channel KCNQ1 in mammalian taste bud cells and the effect of its null-mutation on taste preferences. <i>Journal of Comparative Neurology</i> , 2009, 512, 384-398.	0.9	32
103	Inward rectifier channel, ROMK, is localized to the apical tips of glial-like cells in mouse taste buds. <i>Journal of Comparative Neurology</i> , 2009, 517, 1-14.	0.9	68
104	Regulation of the murine TRPP3 channel by voltage, pH, and changes in cell volume. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 795-807.	1.3	70
105	Defining features of the hair cell mechano-electrical transducer channel. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 458, 1115-1123.	1.3	52
106	Molecular mechanisms of taste transduction in vertebrates. <i>Odontology / the Society of the Nippon Dental University</i> , 2009, 97, 1-7.	0.9	42
107	Molecular evolution of PKD2 gene family in mammals. <i>Genetica</i> , 2009, 137, 77-86.	0.5	7
108	Modeling and simulation of ion channels and action potentials in taste receptor cells. <i>Science in China Series C: Life Sciences</i> , 2009, 52, 1036-1047.	1.3	3
109	Primary processes in sensory cells: current advances. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009, 195, 1-19.	0.7	15
110	The sweet taste quality is linked to a cluster of taste fibers in primates: lactisole diminishes preference and responses to sweet in S fibers (sweet best) chorda tympani fibers of <i>M. fascicularis</i> monkey. <i>BMC Physiology</i> , 2009, 9, 1.	3.6	34
111	Discrimination of taste qualities among mouse fungiform taste bud cells. <i>Journal of Physiology</i> , 2009, 587, 4425-4439.	1.3	98
112	Cell-to-cell communication in intact taste buds through ATP signalling from pannexin 1 gap junction hemichannels. <i>Journal of Physiology</i> , 2009, 587, 5899-5906.	1.3	102
113	Optogenetic dissection of a behavioural module in the vertebrate spinal cord. <i>Nature</i> , 2009, 461, 407-410.	13.7	387
114	Saltiness and Acidity: Detection and Recognition Thresholds and Their Interaction Near the Threshold. <i>Journal of Food Science</i> , 2009, 74, S147-53.	1.5	16
115	Molecular receptors of taste agents. <i>Russian Journal of Bioorganic Chemistry</i> , 2009, 35, 1-9.	0.3	2
116	The Taste of Carbonation. <i>Science</i> , 2009, 326, 443-445.	6.0	327
117	Sodium and Water. , 2009, , 157-184.		4

#	ARTICLE	IF	CITATIONS
118	Salt taste inhibition by cathodal current. Brain Research Bulletin, 2009, 80, 107-115.	1.4	21
119	Variant Ionotropic Glutamate Receptors as Chemosensory Receptors in Drosophila. Cell, 2009, 136, 149-162.	13.5	1,207
120	Common Sense about Taste: From Mammals to Insects. Cell, 2009, 139, 234-244.	13.5	699
121	The Amygdala Is a Chemosensor that Detects Carbon Dioxide and Acidosis to Elicit Fear Behavior. Cell, 2009, 139, 1012-1021.	13.5	361
122	Acetic acid activates PKD1L3â€œPKD2L1 channelâ€œA candidate sour taste receptor. Biochemical and Biophysical Research Communications, 2009, 385, 346-350.	1.0	53
123	Bitter-responsive brainstem neurons: Characteristics and functions. Physiology and Behavior, 2009, 97, 592-603.	1.0	15
124	Acid-Sensitive Ion Channels and Receptors. Handbook of Experimental Pharmacology, 2009, , 283-332.	0.9	234
125	Polycystic Kidney Disease. Annual Review of Medicine, 2009, 60, 321-337.	5.0	697
126	Tolerance and Dependence. , 2009, , 4073-4076.		0
127	Fate mapping of mammalian embryonic taste bud progenitors. Development (Cambridge), 2009, 136, 1519-1528.	1.2	83
128	Time Constant in Membrane Biophysics. , 2009, , 4070-4070.		0
129	Mammalian Bitter Taste Perception. Results and Problems in Cell Differentiation, 2009, 47, 77-96.	0.2	60
130	Chemosensory Systems in Mammals, Fishes, and Insects. Results and Problems in Cell Differentiation, 2009, , .	0.2	8
131	Theory Theory (Simulation Theory, Theory of Mind). , 2009, , 4064-4067.		4
132	Type 1 and Type 0 Resetting. , 2009, , 4146-4149.		0
135	Abventricular Division. , 2008, , 3-3.		1
136	Functional Expression of Miraculin, a Taste-Modifying Protein in Escherichia Coli. Journal of Biochemistry, 2009, 145, 445-450.	0.9	32
138	NMDA receptor in intestinal enteroendocrine cell, STC-1. NeuroReport, 2010, 21, 772-776.	0.6	4

#	ARTICLE	IF	CITATIONS
159	A proton current drives action potentials in genetically identified sour taste cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22320-22325.	3.3	151
160	Genetics of Taste and Smell. Progress in Molecular Biology and Translational Science, 2010, 94, 213-240.	0.9	212
161	The Search for Mechanisms Underlying the Sour Taste Evoked by Acids Continues. Chemical Senses, 2010, 35, 545-547.	1.1	6
162	Interaction between PKD1L3 and PKD2L1 through their transmembrane domains is required for localization of PKD2L1 at taste pores in taste cells of circumvallate and foliate papillae. FASEB Journal, 2010, 24, 4058-4067.	0.2	32
163	The sour taste of a proton current. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21955-21956.	3.3	6
164	TRP channels: new targets for visceral pain. Gut, 2010, 59, 126-135.	6.1	69
165	International Union of Basic and Clinical Pharmacology. LXXVI. Current Progress in the Mammalian TRP Ion Channel Family. Pharmacological Reviews, 2010, 62, 381-404.	7.1	502
166	Taste Function in Mice with a Targeted Mutation of the Pkd1l3 Gene. Chemical Senses, 2010, 35, 565-577.	1.1	68
167	Molecular Advances in Autosomal Dominant Polycystic Kidney Disease. Advances in Chronic Kidney Disease, 2010, 17, 118-130.	0.6	128
168	Reception and Transmission of Taste Information in Type II and Type III Taste Bud Cells. Journal of Oral Biosciences, 2010, 52, 358-364.	0.8	1
169	Molecular Gastronomy: A New Emerging Scientific Discipline. Chemical Reviews, 2010, 110, 2313-2365.	23.0	158
170	The cell biology of taste. Journal of Cell Biology, 2010, 190, 285-296.	2.3	689
171	The role of transient receptor potential vanilloid-1 on neural responses to acids by the chorda tympani, glossopharyngeal and superior laryngeal nerves in mice. Neuroscience, 2010, 165, 1476-1489.	1.1	38
172	Coding in the mammalian gustatory system. Trends in Neurosciences, 2010, 33, 326-334.	4.2	162
173	New Insights into the Signal Transmission from Taste Cells to Gustatory Nerve Fibers. International Review of Cell and Molecular Biology, 2010, 279, 101-134.	1.6	27
174	Eukaryotic Mechanosensitive Channels. Annual Review of Biophysics, 2010, 39, 111-137.	4.5	360
175	The Role of Transient Receptor Potential Cation Channels in Ca ²⁺ Signaling. Cold Spring Harbor Perspectives in Biology, 2010, 2, a003962-a003962.	2.3	344
177	Attempt to Develop Taste Bud Models in Three-Dimensional Culture. Zoological Science, 2011, 28, 623-632.	0.3	7

#	ARTICLE	IF	CITATIONS
178	Sensory Functions for Degenerin/Epithelial Sodium Channels (DEG/ENaC). <i>Advances in Genetics</i> , 2011, 76, 1-26.	0.8	74
179	Multiple Roles for TRPs in the Taste System: Not Your Typical TRPs. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 831-846.	0.8	7
180	Metabolic Sensing in Brain Dopamine Systems. <i>Results and Problems in Cell Differentiation</i> , 2011, 52, 69-86.	0.2	40
181	TRPP Channels and Polycystins. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 287-313.	0.8	33
182	The single pore residue Asp523 in PKD2L1 determines Ca ²⁺ permeation of the PKD1L3/PKD2L1 complex. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 946-951.	1.0	14
183	Functional bitter taste receptors are expressed in brain cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 406, 146-151.	1.0	149
184	A Gustotopic Map of Taste Qualities in the Mammalian Brain. <i>Science</i> , 2011, 333, 1262-1266.	6.0	335
185	Out of Thin Air: Sensory Detection of Oxygen and Carbon Dioxide. <i>Neuron</i> , 2011, 69, 194-202.	3.8	43
186	Purinergic signaling in hypothalamic tanycytes: Potential roles in chemosensing. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 237-244.	2.3	33
187	The spinal cord ependymal region: A stem cell niche in the caudal central nervous system. <i>Frontiers in Bioscience - Landmark</i> , 2011, 16, 1044.	3.0	83
188	TRP Channels in the Digestive System. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 24-34.	0.9	88
189	Sour Taste Responses in Mice Lacking PKD Channels. <i>PLoS ONE</i> , 2011, 6, e20007.	1.1	116
190	Effect of Drinking Temperature on the Acidity of Organic Acids in "Sake". <i>Journal of the Brewing Society of Japan</i> , 2011, 106, 747-755.	0.1	1
191	Genetic tracing of the gustatory neural pathway originating from Pkd1l3-expressing type III taste cells in circumvallate and foliate papillae. <i>Journal of Neurochemistry</i> , 2011, 119, 497-506.	2.1	16
192	Acid sensing by visceral afferent neurones. <i>Acta Physiologica</i> , 2011, 201, 63-75.	1.8	89
193	Transient receptor potential (TRP) channels as drug targets for diseases of the digestive system. , 2011, 131, 142-170.		197
194	Gustatory and extragustatory functions of mammalian taste receptors. <i>Physiology and Behavior</i> , 2011, 105, 4-13.	1.0	194
195	The functional role of the T1R family of receptors in sweet taste and feeding. <i>Physiology and Behavior</i> , 2011, 105, 14-26.	1.0	72

#	ARTICLE	IF	CITATIONS
196	Bimodal effect of alkalization on the polycystin transient receptor potential channel, PKD2L1. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 461, 507-513.	1.3	22
197	Validity of early indirect models of taste active sites and advances in new taste technologies enabled by improved models. <i>Flavour and Fragrance Journal</i> , 2011, 26, 239-253.	1.2	14
198	Screening for G-protein-coupled receptors expressed in mouse taste papillae. <i>Flavour and Fragrance Journal</i> , 2011, 26, 223-230.	1.2	7
199	Functional diversity of taste cells. A review.. <i>Flavour and Fragrance Journal</i> , 2011, 26, 214-217.	1.2	12
200	Taste bud cells of adult mice are responsive to Wnt/ β -catenin signaling: Implications for the renewal of mature taste cells. <i>Genesis</i> , 2011, 49, 295-306.	0.8	36
202	Sweet and Umami Taste: Natural Products, Their Chemosensory Targets, and Beyond. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2220-2242.	7.2	146
203	New Insights into the Characteristics of Sweet and Bitter Taste Receptors. <i>International Review of Cell and Molecular Biology</i> , 2011, 291, 191-226.	1.6	14
204	A comparative analysis of neural taste processing in animals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2171-2180.	1.8	26
205	A TRPA1-dependent mechanism for the pungent sensation of weak acids. <i>Journal of General Physiology</i> , 2011, 137, 493-505.	0.9	107
206	The K ⁺ -H ⁺ Exchanger, Nigericin, Modulates Taste Cell pH and Chorda Tympani Taste Nerve Responses to Acidic Stimuli. <i>Chemical Senses</i> , 2011, 36, 375-388.	1.1	11
207	Citric Acid and Quinine Share Perceived Chemosensory Features Making Oral Discrimination Difficult in C57BL/6j Mice. <i>Chemical Senses</i> , 2011, 36, 477-489.	1.1	9
208	Skn-1a (Pou2f3) specifies taste receptor cell lineage. <i>Nature Neuroscience</i> , 2011, 14, 685-687.	7.1	159
209	Involvement of NADPH-Dependent and cAMP-PKA Sensitive H ⁺ Channels in the Chorda Tympani Nerve Responses to Strong Acids. <i>Chemical Senses</i> , 2011, 36, 389-403.	1.1	10
210	Orosensory detection of sucrose, maltose, and glucose is severely impaired in mice lacking T1R2 or T1R3, but Polycose sensitivity remains relatively normal. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R218-R235.	0.9	50
211	Acetic acid modulates spike rate and spike latency to salt in peripheral gustatory neurons of rats. <i>Journal of Neurophysiology</i> , 2012, 108, 2405-2418.	0.9	12
212	Peripheral chemosensing system for tastants and nutrients. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2012, 19, 19-25.	1.2	19
213	Receptor for Activated C Kinase 1 (RACK1) Inhibits Function of Transient Receptor Potential (TRP)-type Channel Pkd2L1 through Physical Interaction. <i>Journal of Biological Chemistry</i> , 2012, 287, 6551-6561.	1.6	23
214	Novel sensory signaling systems in the kidney. <i>Current Opinion in Nephrology and Hypertension</i> , 2012, 21, 404-409.	1.0	17

#	ARTICLE	IF	CITATIONS
215	Age-Related Changes in Mouse Taste Bud Morphology, Hormone Expression, and Taste Responsivity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 336-344.	1.7	55
216	Green Tea Polyphenol Epigallocatechin Gallate Activates TRPA1 in an Intestinal Enteroendocrine Cell Line, STC-1. <i>Chemical Senses</i> , 2012, 37, 167-177.	1.1	50
217	Mechanisms of Taste Bud Cell Loss after Head and Neck Irradiation. <i>Journal of Neuroscience</i> , 2012, 32, 3474-3484.	1.7	76
218	Improvement of the bitter taste of drugs by complexation with cyclodextrins: applications, evaluations and mechanisms. <i>Therapeutic Delivery</i> , 2012, 3, 633-644.	1.2	43
219	Fluid flows and forces in development: functions, features and biophysical principles. <i>Development (Cambridge)</i> , 2012, 139, 1229-1245.	1.2	121
220	The Role of TRP Proteins in Mast Cells. <i>Frontiers in Immunology</i> , 2012, 3, 150.	2.2	62
221	Targeted Taste Cell-specific Overexpression of Brain-derived Neurotrophic Factor in Adult Taste Buds Elevates Phosphorylated TrkB Protein Levels in Taste Cells, Increases Taste Bud Size, and Promotes Gustatory Innervation. <i>Journal of Biological Chemistry</i> , 2012, 287, 16791-16800.	1.6	30
222	Changes in taste receptor cell [Ca ²⁺] _i modulate chorda tympani responses to salty and sour taste stimuli. <i>Journal of Neurophysiology</i> , 2012, 108, 3206-3220.	0.9	12
224	Proteins and Peptides with Taste. , 2012, , 277-296.		1
225	Sense of Taste in the Gastrointestinal Tract. <i>Journal of Pharmacological Sciences</i> , 2012, 118, 123-128.	1.1	46
226	Neurones in the dorsal vagal complex may be more tasteful than expected. <i>Journal of Physiology</i> , 2012, 590, 3637-3638.	1.3	0
227	Molecular mechanism of the assembly of an acid-sensing receptor ion channel complex. <i>Nature Communications</i> , 2012, 3, 1252.	5.8	45
228	Genetic Predisposition and Taste Preference: Impact on Food Intake and Risk of Chronic Disease. <i>Current Nutrition Reports</i> , 2012, 1, 175-183.	2.1	18
229	Behavioral Analysis of <i>Drosophila</i> Transformants Expressing Human Taste Receptor Genes in the Gustatory Receptor Neurons. <i>Journal of Neurogenetics</i> , 2012, 26, 198-205.	0.6	3
230	New Acid Biosensor for Taste Transduction Based on Extracellular Recording of PKD Channels. <i>IEEE Sensors Journal</i> , 2012, 12, 3113-3118.	2.4	13
231	<scp>TRP</scp> Channels. , 2012, 2, 563-608.		134
232	Identification of Bitterness-Masking Compounds from Cheese. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 4492-4499.	2.4	20
233	Crystal structure and characterization of coiled-coil domain of the transient receptor potential channel PKD2L1. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 413-421.	1.1	11

#	ARTICLE	IF	CITATIONS
234	Properties of subependymal cerebrospinal fluid contacting neurones in the dorsal vagal complex of the mouse brainstem. <i>Journal of Physiology</i> , 2012, 590, 3719-3741.	1.3	53
235	Immunocytochemical analysis of P2X2 in rat circumvallate taste buds. <i>BMC Neuroscience</i> , 2012, 13, 51.	0.8	20
236	Molecular Mechanisms of Acid-Base Sensing by the Kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2012, 23, 774-780.	3.0	78
237	Primary Processes in Sensory Cells: Current Advances. <i>Advances in Experimental Medicine and Biology</i> , 2012, 739, 32-58.	0.8	1
239	Hormones and bioactive substances that affect peripheral taste sensitivity. <i>Journal of Oral Biosciences</i> , 2012, 54, 67-72.	0.8	5
240	Neuronal expression of bitter taste receptors and downstream signaling molecules in the rat brainstem. <i>Brain Research</i> , 2012, 1475, 1-10.	1.1	58
241	Genetic Labeling of Tas1r1 and Tas2r131 Taste Receptor Cells in Mice. <i>Chemical Senses</i> , 2012, 37, 897-911.	1.1	70
242	Gustatory sensation of l- and d-amino acids in humans. <i>Amino Acids</i> , 2012, 43, 2349-2358.	1.2	134
243	Taste Preferences. <i>Progress in Molecular Biology and Translational Science</i> , 2012, 108, 383-426.	0.9	25
244	Gustatory system: The finer points of taste. <i>Nature</i> , 2012, 486, S2-S3.	13.7	35
245	A2BR Adenosine Receptor Modulates Sweet Taste in Circumvallate Taste Buds. <i>PLoS ONE</i> , 2012, 7, e30032.	1.1	24
246	Quality Coding by Neural Populations in the Early Olfactory Pathway: Analysis Using Information Theory and Lessons for Artificial Olfactory Systems. <i>PLoS ONE</i> , 2012, 7, e37809.	1.1	20
247	The Glutamatergic Neurons in the Spinal Cord of the Sea Lamprey: An In Situ Hybridization and Immunohistochemical Study. <i>PLoS ONE</i> , 2012, 7, e47898.	1.1	16
248	The Neurobiology of Gustation. , 2012, , 741-767.		1
249	The Spinal Cord Neural Stem Cell Niche. , 2012, , .		2
250	A Systematic Survey of Loss-of-Function Variants in Human Protein-Coding Genes. <i>Science</i> , 2012, 335, 823-828.	6.0	1,095
251	Orosensory and Homeostatic Functions of the Insular Taste Cortex. <i>Chemosensory Perception</i> , 2012, 5, 64-79.	0.7	54
252	Proton production, regulation and pathophysiological roles in the mammalian brain. <i>Neuroscience Bulletin</i> , 2012, 28, 1-13.	1.5	26

#	ARTICLE	IF	CITATIONS
253	Taste receptor signalling – from tongues to lungs. <i>Acta Physiologica</i> , 2012, 204, 158-168.	1.8	201
254	Detecting sweet and umami tastes in the gastrointestinal tract. <i>Acta Physiologica</i> , 2012, 204, 169-177.	1.8	20
255	Cilia, KIF3 molecular motor and nodal flow. <i>Current Opinion in Cell Biology</i> , 2012, 24, 31-39.	2.6	59
256	Mechanism of taste; electrochemistry, receptors and signal transduction. <i>Journal of Electrostatics</i> , 2012, 70, 7-14.	1.0	10
257	The response of PKD1L3/SPKD2L1 to acid stimuli is inhibited by capsaicin and its pungent analogs. <i>FEBS Journal</i> , 2012, 279, 1857-1870.	2.2	14
258	Acetylcholine is released from taste cells, enhancing taste signalling. <i>Journal of Physiology</i> , 2012, 590, 3009-3017.	1.3	38
259	Electrical excitability of taste cells. Mechanisms and possible physiological significance. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2012, 6, 169-185.	0.3	4
260	Polycystins and cellular Ca ²⁺ signaling. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2697-2712.	2.4	28
261	Acid-sensing ion channels (ASICs) in the taste buds of adult zebrafish. <i>Neuroscience Letters</i> , 2013, 536, 35-40.	1.0	22
262	Neurosensory transmission without a synapse: new perspectives on taste signaling. <i>BMC Biology</i> , 2013, 11, 42.	1.7	13
263	Information processing in brainstem bitter taste-relaying neurons defined by genetic tracing. <i>Neuroscience</i> , 2013, 250, 166-180.	1.1	6
264	Functional dissection of sweet and bitter taste pathways. <i>Journal of Oral Biosciences</i> , 2013, 55, 66-72.	0.8	7
265	Peptide regulators of peripheral taste function. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 232-239.	2.3	50
267	Amino Acids and Peptides Activate at Least Five Members of the Human Bitter Taste Receptor Family. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 53-60.	2.4	83
268	Functional diversification of taste cells in vertebrates. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 210-214.	2.3	15
269	The gut as a sensory organ. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2013, 10, 729-740.	8.2	386
270	Developing a sense of taste. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 200-209.	2.3	61
271	Gustatory Neural Pathways Revealed by Genetic Tracing from Taste Receptor Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1359-1362.	0.6	22

#	ARTICLE	IF	CITATIONS
272	Asymmetry of the rhodopsin dimer in complex with transducin. <i>FASEB Journal</i> , 2013, 27, 1572-1584.	0.2	58
273	High salt recruits aversive taste pathways. <i>Nature</i> , 2013, 494, 472-475.	13.7	297
274	Renal and cardiovascular sensory receptors and blood pressure regulation. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F439-F444.	1.3	100
275	Extracellular potentials recording in intact taste epithelium by microelectrode array for a taste sensor. <i>Biosensors and Bioelectronics</i> , 2013, 43, 186-192.	5.3	36
276	Taste buds as peripheral chemosensory processors. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 71-79.	2.3	157
277	Autosomal Dominant Polycystic Kidney Disease. , 2013, , 2645-2688.		1
278	Sperm from Sneaker Male Squids Exhibit Chemotactic Swarming to CO ₂ . <i>Current Biology</i> , 2013, 23, 775-781.	1.8	50
279	Oral and extra-oral taste perception. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 240-246.	2.3	74
280	Acid sensing by sweet and bitter taste neurons in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2013, 4, 2042.	5.8	73
281	The Cellular Code for Mammalian Thermosensation. <i>Journal of Neuroscience</i> , 2013, 33, 5533-5541.	1.7	165
282	Bioinformatics: Current perspectives and future directions for food and nutritional research facilitated by a Food-Wiki database. <i>Trends in Food Science and Technology</i> , 2013, 34, 5-17.	7.8	44
283	A comparative study of the molecular evolution of signalling pathway members across olfactory, gustatory and photosensory modalities. <i>Journal of Genetics</i> , 2013, 92, 327-334.	0.4	2
284	Industry-Relevant Approaches for Minimising the Bitterness of Bioactive Compounds in Functional Foods: A Review. <i>Food and Bioprocess Technology</i> , 2013, 6, 607-627.	2.6	112
285	Putative interaction of brush cells with bicarbonate secreting cells in the proximal corpus mucosa. <i>Frontiers in Physiology</i> , 2013, 4, 182.	1.3	6
286	Individual Differences in Sour and Salt Sensitivity: Detection and Quality Recognition Thresholds for Citric Acid and Sodium Chloride. <i>Chemical Senses</i> , 2013, 38, 333-342.	1.1	30
287	Taste perception: from the tongue to the testis. <i>Molecular Human Reproduction</i> , 2013, 19, 349-360.	1.3	105
288	Electronic Tongues—A Review. <i>IEEE Sensors Journal</i> , 2013, 13, 3001-3011.	2.4	268
289	The structure of brazzein, a sweet-tasting protein from the wild African plant <i>Pentadiplandra brazzeana</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 642-647.	2.5	27

#	ARTICLE	IF	CITATIONS
290	Development of a Cultured Cell-Based Human-Taste Evaluation System. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1613-1616.	0.6	3
291	Transgenic labeling of higher order neuronal circuits linked to phospholipase C α 2 β expressing taste bud cells in medaka fish. <i>Journal of Comparative Neurology</i> , 2013, 521, 1781-1802.	0.9	7
292	Role of the ectonucleotidase NTPDase2 in taste bud function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14789-14794.	3.3	90
293	<i>Chemical Senses.</i> , 2013, , 513-530.		1
294	Human Biology of Taste. <i>Annals of Saudi Medicine</i> , 2013, 33, 217-222.	0.5	48
295	Statistical Analysis and Decoding of Neural Activity in the Rodent Geniculate Ganglion Using a Metric-Based Inference System. <i>PLoS ONE</i> , 2013, 8, e65439.	1.1	2
296	A taste for ATP: neurotransmission in taste buds. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 264.	1.8	73
297	Morphology, Distribution and Phenotype of Polycystin Kidney Disease 2-like 1-Positive Cerebrospinal Fluid Contacting Neurons in The Brainstem of Adult Mice. <i>PLoS ONE</i> , 2014, 9, e87748.	1.1	47
298	A Physiologic Role for Serotonergic Transmission in Adult Rat Taste Buds. <i>PLoS ONE</i> , 2014, 9, e112152.	1.1	22
299	Investigation of spinal cerebrospinal fluid-contacting neurons expressing PKD2L1: evidence for a conserved system from fish to primates. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 26.	0.9	101
300	Improvement in taste sensitivity following pulmonary rehabilitation in patients with chronic obstructive pulmonary disease. <i>Journal of Rehabilitation Medicine</i> , 2014, 46, 932-936.	0.8	8
301	Typical and Atypical Stem Cell Niches of the Adult Nervous System in Health and Inflammatory Brain and Spinal Cord Diseases. , 0, , .		3
303	Taste Receptor Gene Expression Outside the Gustatory System. <i>Topics in Medicinal Chemistry</i> , 2014, , 1-34.	0.4	7
304	Taste Bud Homeostasis in Health, Disease, and Aging. <i>Chemical Senses</i> , 2014, 39, 3-16.	1.1	117
305	Laterally projecting cerebrospinal fluid-contacting cells in the lamprey spinal cord are of two distinct types. <i>Journal of Comparative Neurology</i> , 2014, 522, 1753-1768.	0.9	38
306	Neuronal release and successful astrocyte uptake of aminoacidergic neurotransmitters after spinal cord injury in lampreys. <i>Glia</i> , 2014, 62, 1254-1269.	2.5	26
307	A novel SCFA receptor, the microbiota, and blood pressure regulation. <i>Gut Microbes</i> , 2014, 5, 202-207.	4.3	286
308	The TRPP Subfamily and Polycystin-1 Proteins. <i>Handbook of Experimental Pharmacology</i> , 2014, 222, 675-711.	0.9	39

#	ARTICLE	IF	CITATIONS
309	The loss of taste genes in cetaceans. <i>BMC Evolutionary Biology</i> , 2014, 14, 218.	3.2	43
310	Extra sensory perception. <i>Current Opinion in Nephrology and Hypertension</i> , 2014, 23, 507-512.	1.0	10
311	Diverse roles for the <i>Drosophila</i> fructose sensor Gr43a. <i>Fly</i> , 2014, 8, 19-25.	0.9	85
313	The taste of D- and L-amino acids: In vitro binding assays with cloned human bitter (TAS2Rs) and sweet (TAS1R2/TAS1R3) receptors. <i>Food Chemistry</i> , 2014, 150, 27-33.	4.2	63
314	Polycystin-1 cleavage and the regulation of transcriptional pathways. <i>Pediatric Nephrology</i> , 2014, 29, 505-511.	0.9	25
315	Gating modulation by heat of the polycystin transient receptor potential channel PKD2L1 (TRPP3). <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 1933-1940.	1.3	14
316	Peripheral Coding of Taste. <i>Neuron</i> , 2014, 81, 984-1000.	3.8	357
317	Synaptic communication and signal processing among sensory cells in taste buds. <i>Journal of Physiology</i> , 2014, 592, 3387-3392.	1.3	32
318	Respiratory CO2 Mediates Sperm Chemotaxis in Squids. , 2014, , 13-21.		1
319	Mammalian Transient Receptor Potential (TRP) Cation Channels. <i>Handbook of Experimental Pharmacology</i> , 2014, , .	0.9	24
320	Massive Losses of Taste Receptor Genes in Toothed and Baleen Whales. <i>Genome Biology and Evolution</i> , 2014, 6, 1254-1265.	1.1	113
321	Taste of Milk from Inflamed Breasts of Breastfeeding Mothers with Mastitis Evaluated Using a Taste Sensor. <i>Breastfeeding Medicine</i> , 2014, 9, 92-97.	0.8	14
322	Enigmatic cerebrospinal fluid-contacting neurons arise even after the termination of neurogenesis in the rat spinal cord during embryonic development and retain their immature-like characteristics until adulthood. <i>Acta Histochemica</i> , 2014, 116, 278-285.	0.9	26
323	Molecular Basis of Taste Sense: Involvement of GPCR Receptors. <i>Critical Reviews in Food Science and Nutrition</i> , 2014, 54, 771-780.	5.4	21
324	From microbe to man: the role of microbial short chain fatty acid metabolites in host cell biology. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C979-C985.	2.1	128
325	Sodium Aspartate as a Specific Enhancer of Salty Taste Perception--Sodium Aspartate Is a Possible Candidate to Decrease Excessive Intake of Dietary Salt. <i>Chemical Senses</i> , 2014, 39, 781-786.	1.1	13
326	Transient Receptor Potential Channels as Drug Targets: From the Science of Basic Research to the Art of Medicine. <i>Pharmacological Reviews</i> , 2014, 66, 676-814.	7.1	440
327	TRPs in Taste and Chemesthesis. <i>Handbook of Experimental Pharmacology</i> , 2014, 223, 827-871.	0.9	107

#	ARTICLE	IF	CITATIONS
328	Bitter taste genetics – the relationship to tasting, liking, consumption and health. <i>Food and Function</i> , 2014, 5, 3040-3054.	2.1	28
329	Mammalian Transient Receptor Potential (TRP) Cation Channels. <i>Handbook of Experimental Pharmacology</i> , 2014, , .	0.9	22
330	Nature and nurture in children’s food preferences. <i>American Journal of Clinical Nutrition</i> , 2014, 99, 911-917.	2.2	80
331	Sensory Perception and Wine Assessment. , 2014, , 831-888.		5
332	Extrasensory perception: Odorant and taste receptors beyond the nose and mouth. , 2014, 142, 41-61.		98
333	Genetic Sensitivity to the Bitter Taste of 6-n-Propylthiouracil (PROP) and Its Association with Physiological Mechanisms Controlling Body Mass Index (BMI). <i>Nutrients</i> , 2014, 6, 3363-3381.	1.7	96
335	Expression of the synaptic exocytosis-regulating molecule complexin 2 in taste buds and its participation in peripheral taste transduction. <i>Journal of Neurochemistry</i> , 2015, 133, 806-814.	2.1	10
338	Acid-induced off-response of PKD2L1 channel in <i>Xenopus</i> oocytes and its regulation by Ca ²⁺ . <i>Scientific Reports</i> , 2015, 5, 15752.	1.6	9
339	Influx-Operated Ca ²⁺ Entry via PKD2-L1 and PKD1-L3 Channels Facilitates Sensory Responses to Polymodal Transient Stimuli. <i>Cell Reports</i> , 2015, 13, 798-811.	2.9	8
340	Alkaline pH sensor molecules. <i>Journal of Neuroscience Research</i> , 2015, 93, 1623-1630.	1.3	8
341	Neuronal organization of the brain in the adult amphioxus (<i>Branchiostoma lanceolatum</i>): A study with acetylated tubulin immunohistochemistry. <i>Journal of Comparative Neurology</i> , 2015, 523, 2211-2232.	0.9	16
342	Taste processing in <i>Drosophila</i> larvae. <i>Frontiers in Integrative Neuroscience</i> , 2015, 9, 50.	1.0	32
343	Comparative Distribution and In Vitro Activities of the Urotensin II-Related Peptides URP1 and URP2 in Zebrafish: Evidence for Their Colocalization in Spinal Cerebrospinal Fluid-Contacting Neurons. <i>PLoS ONE</i> , 2015, 10, e0119290.	1.1	45
344	Taste perception, associated hormonal modulation, and nutrient intake. <i>Nutrition Reviews</i> , 2015, 73, 83-91.	2.6	101
345	Cardiac gene expression data and in silico analysis provide novel insights into human and mouse taste receptor gene regulation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 1009-1027.	1.4	23
346	The Role of 5-HT ₃ Receptors in Signaling from Taste Buds to Nerves. <i>Journal of Neuroscience</i> , 2015, 35, 15984-15995.	1.7	55
347	State-Dependent Modulation of Locomotion by GABAergic Spinal Sensory Neurons. <i>Current Biology</i> , 2015, 25, 3035-3047.	1.8	86
348	Chemical and Physical Sensors in the Regulation of Renal Function. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2015, 10, 1626-1635.	2.2	14

#	ARTICLE	IF	CITATIONS
349	Electronic noses and tongues in food safety assurance. , 2015, , 265-283.		4
350	Taste receptors. , 2015, , 297-329.		0
351	Glucagon-like peptide-1 is specifically involved in sweet taste transmission. FASEB Journal, 2015, 29, 2268-2280.	0.2	75
352	Acid-sensing ion channels (ASICs) 2 and 4.2 are expressed in the retina of the adult zebrafish. Cell and Tissue Research, 2015, 360, 223-231.	1.5	11
353	Acid-sensing ion channels in gastrointestinal function. Neuropharmacology, 2015, 94, 72-79.	2.0	56
354	Molecular mechanisms underlying the reception and transmission of sour taste information. Bioscience, Biotechnology and Biochemistry, 2015, 79, 171-176.	0.6	12
355	Permeation, regulation and control of expression of TRP channels by trace metal ions. Pflugers Archiv European Journal of Physiology, 2015, 467, 1143-1164.	1.3	83
356	The endocrinology of taste receptors. Nature Reviews Endocrinology, 2015, 11, 213-227.	4.3	101
358	Postnatal reduction of BDNF regulates the developmental remodeling of taste bud innervation. Developmental Biology, 2015, 405, 225-236.	0.9	17
359	Virtual, Augmented and Mixed Reality. Lecture Notes in Computer Science, 2015, , .	1.0	6
360	Mice Lacking Pannexin 1 Release ATP and Respond Normally to All Taste Qualities. Chemical Senses, 2015, 40, 461-467.	1.1	24
361	A novel PKD2L1 C-terminal domain critical for trimerization and channel function. Scientific Reports, 2015, 5, 9460.	1.6	11
362	Electrogustometry and Contact Endoscopy Findings in Patients With Head and Neck Malignancies Treated With Chemotherapy, Radiotherapy, or Radiochemotherapy. Chemical Senses, 2015, 40, 165-171.	1.1	10
363	Environmental CO ₂ inhibits <i>Caenorhabditis elegans</i> egg-laying by modulating olfactory neurons and evokes widespread changes in neural activity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3525-34.	3.3	49
364	Molecular Mechanisms of Taste Recognition: Considerations about the Role of Saliva. International Journal of Molecular Sciences, 2015, 16, 5945-5974.	1.8	62
365	Chemosensory Receptor Specificity and Regulation. Annual Review of Neuroscience, 2015, 38, 331-349.	5.0	56
366	A proton current associated with sour taste: distribution and functional properties. FASEB Journal, 2015, 29, 3014-3026.	0.2	47
367	PKD2L1/PKD1L3 channel complex with an alkali-activated mechanism and calcium-dependent inactivation. European Biophysics Journal, 2015, 44, 483-492.	1.2	6

#	ARTICLE	IF	CITATIONS
368	Calcitonin Gene-Related Peptide Reduces Taste-Evoked ATP Secretion from Mouse Taste Buds. <i>Journal of Neuroscience</i> , 2015, 35, 12714-12724.	1.7	22
369	Progress and renewal in gustation: new insights into taste bud development. <i>Development (Cambridge)</i> , 2015, 142, 3620-3629.	1.2	134
370	Using Animal Models to Determine the Role of Gustatory Neural Input in the Control of Ingestive Behavior and the Maintenance of Body Weight. <i>Chemosensory Perception</i> , 2015, 8, 61-77.	0.7	1
371	Gustatory Epithelium-Based Taste Sensors. , 2015, , 225-240.		0
372	Cholinergic Enhancement of Cell Proliferation in the Postnatal Neurogenic Niche of the Mammalian Spinal Cord. <i>Stem Cells</i> , 2015, 33, 2864-2876.	1.4	19
373	In Vivo Bioelectronic Tongue. , 2015, , 289-307.		0
374	Bioanalytical and chemical sensors using living taste, olfactory, and neural cells and tissues: a short review. <i>Analyst, The</i> , 2015, 140, 7048-7061.	1.7	18
375	The pharmacology of bitter taste receptors and their role in human airways. , 2015, 155, 11-21.		40
376	Breadth of tuning in taste afferent neurons varies with stimulus strength. <i>Nature Communications</i> , 2015, 6, 8171.	5.8	88
377	Do Salivary Proteins Play a Role in Tasting Bitter Substances?. <i>ACS Symposium Series</i> , 2015, , 183-195.	0.5	0
378	Taste preferences and taste thresholds to classical taste substances in the carnivorous fish, kutum <i>Rutilus frisii kutum</i> (Teleostei: Cyprinidae). <i>Physiology and Behavior</i> , 2015, 140, 111-117.	1.0	13
379	Postsynaptic P2X ₃ -containing receptors in gustatory nerve fibres mediate responses to all taste qualities in mice. <i>Journal of Physiology</i> , 2015, 593, 1113-1125.	1.3	74
380	The neural representation of taste quality at the periphery. <i>Nature</i> , 2015, 517, 373-376.	13.7	123
381	Physiological Roles of Acid-Base Sensors. <i>Annual Review of Physiology</i> , 2015, 77, 347-362.	5.6	75
382	Amiloride-sensitive sodium currents in fungiform taste cells of rats chronically exposed to nicotine. <i>Neuroscience</i> , 2015, 284, 180-191.	1.1	8
383	Peptide Signaling in Taste Transduction. , 2016, , 299-317.		3
384	The Mechanisms of Salty and Sour Taste. , 2016, , 287-297.		4
385	Hair-Cell Mechanotransduction Persists in TRP Channel Knockout Mice. <i>PLoS ONE</i> , 2016, 11, e0155577.	1.1	32

#	ARTICLE	IF	CITATIONS
386	G Proteinâ€‘Coupled Taste Transduction. , 2016, , 271-285.		3
389	Defining an olfactory receptor function in airway smooth muscle cells. <i>Scientific Reports</i> , 2016, 6, 38231.	1.6	83
390	A Taste Circuit that Regulates Ingestion by Integrating Food and Hunger Signals. <i>Cell</i> , 2016, 165, 715-729.	13.5	119
391	Olfaction in the kidney: â€‘smellingâ€™ gut microbial metabolites. <i>Experimental Physiology</i> , 2016, 101, 478-481.	0.9	24
392	Mechanism of fat taste perception: Association with diet and obesity. <i>Progress in Lipid Research</i> , 2016, 63, 41-49.	5.3	113
393	Recent Advances in Molecular Mechanisms of Taste Signaling and Modifying. <i>International Review of Cell and Molecular Biology</i> , 2016, 323, 71-106.	1.6	20
394	The Spinal Cord Has an Intrinsic System for the Control of pH. <i>Current Biology</i> , 2016, 26, 1346-1351.	1.8	54
395	The Neural Control of Oropharyngeal Somatosensation and Taste: A Review for Clinicians. <i>Perspectives of the ASHA Special Interest Groups</i> , 2016, 1, 48-55.	0.4	3
396	Intraspinal Sensory Neurons Provide Powerful Inhibition to Motor Circuits Ensuring Postural Control during Locomotion. <i>Current Biology</i> , 2016, 26, 2841-2853.	1.8	97
397	Taste perception and integration. , 2016, , 101-119.		17
398	Variation in human sweet taste receptor may result in different levels of sweet intensity variability between sweet stimuli. <i>International Journal of Food Science and Technology</i> , 2016, 51, 1958-1966.	1.3	7
399	Spinal sensory circuits in motion. <i>Current Opinion in Neurobiology</i> , 2016, 41, 38-43.	2.0	9
400	Acid-sensing ion channels and transient-receptor potential ion channels in zebrafish taste buds. <i>Annals of Anatomy</i> , 2016, 207, 32-37.	1.0	19
401	The TRP Channels Pkd2, NompC, and Trpm Act in Cold-Sensing Neurons to Mediate Unique Aversive Behaviors to Noxious Cold in <i>Drosophila</i> . <i>Current Biology</i> , 2016, 26, 3116-3128.	1.8	92
402	A Renal Olfactory Receptor Aids in Kidney Glucose Handling. <i>Scientific Reports</i> , 2016, 6, 35215.	1.6	52
403	Regulation of TRPP3 Channel Function by N-terminal Domain Palmitoylation and Phosphorylation. <i>Journal of Biological Chemistry</i> , 2016, 291, 25678-25691.	1.6	14
405	CSF-contacting neurons regulate locomotion by relaying mechanical stimuli to spinal circuits. <i>Nature Communications</i> , 2016, 7, 10866.	5.8	162
406	The function of glucagon-like peptide-1 in the mouse peripheral taste system. <i>Journal of Oral Biosciences</i> , 2016, 58, 10-15.	0.8	3

#	ARTICLE	IF	CITATIONS
407	Physiology of the Developing Kidney: Sodium and Water Homeostasis and Its Disorders. , 2016, , 181-217.		3
408	Taste of Fat: A Sixth Taste Modality?. <i>Physiological Reviews</i> , 2016, 96, 151-176.	13.1	191
409	Amiloride-Insensitive Salt Taste Is Mediated by Two Populations of Type III Taste Cells with Distinct Transduction Mechanisms. <i>Journal of Neuroscience</i> , 2016, 36, 1942-1953.	1.7	98
410	Chemical Activation of Sensory TRP Channels. <i>Topics in Medicinal Chemistry</i> , 2016, , 73-113.	0.4	9
411	The late and dual origin of cerebrospinal fluid-contacting neurons in the mouse spinal cord. <i>Development (Cambridge)</i> , 2016, 143, 880-91.	1.2	66
412	Taste information derived from T1R-expressing taste cells in mice. <i>Biochemical Journal</i> , 2016, 473, 525-536.	1.7	27
413	Expression of serotonin receptor genes in cranial ganglia. <i>Neuroscience Letters</i> , 2016, 617, 46-51.	1.0	3
414	Regulation of Vascular and Renal Function by Metabolite Receptors. <i>Annual Review of Physiology</i> , 2016, 78, 391-414.	5.6	32
415	Ciliated neurons lining the central canal sense both fluid movement and pH through ASIC3. <i>Nature Communications</i> , 2016, 7, 10002.	5.8	99
416	The K ⁺ channel K _{IR} 2.1 functions in tandem with proton influx to mediate sour taste transduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E229-38.	3.3	105
417	Sour taste finds closure in a potassium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 246-247.	3.3	15
418	A single polycystic kidney disease 2-like 1 channel opening acts as a spike generator in cerebrospinal fluid-contacting neurons of adult mouse brainstem. <i>Neuropharmacology</i> , 2016, 101, 549-565.	2.0	44
419	Challenges in relating concentrations of aromas and tastes with flavor features of foods. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 2112-2127.	5.4	42
420	Extracellular Loops Are Essential for the Assembly and Function of Polycystin Receptor-Ion Channel Complexes. <i>Journal of Biological Chemistry</i> , 2017, 292, 4210-4221.	1.6	16
422	Expression and functional activity of bitter taste receptors in primary renal tubular epithelial cells and M-1 cells. <i>Molecular and Cellular Biochemistry</i> , 2017, 428, 193-202.	1.4	8
423	TRP channels in brown and white adipogenesis from human progenitors: new therapeutic targets and the caveats associated with the common antibiotic, streptomycin. <i>FASEB Journal</i> , 2017, 31, 3251-3266.	0.2	32
424	The dual developmental origin of spinal cerebrospinal fluid-contacting neurons gives rise to distinct functional subtypes. <i>Scientific Reports</i> , 2017, 7, 719.	1.6	52
425	The cellular mechanism for water detection in the mammalian taste system. <i>Nature Neuroscience</i> , 2017, 20, 927-933.	7.1	99

#	ARTICLE	IF	CITATIONS
426	Genetic Lineage Tracing in Taste Tissues Using Sox2-CreERT2 Strain. <i>Chemical Senses</i> , 2017, 42, 547-552.	1.1	25
427	Calcium Homeostasis Modulator 1-Like Currents in Rat Fungiform Taste Cells Expressing Amiloride-Sensitive Sodium Currents. <i>Chemical Senses</i> , 2017, 42, 343-359.	1.1	16
428	Perception of odors and tastes in autism spectrum disorders: A systematic review of assessments. <i>Autism Research</i> , 2017, 10, 1045-1057.	2.1	42
429	Bortezomib alters sour taste sensitivity in mice. <i>Toxicology Reports</i> , 2017, 4, 172-180.	1.6	6
430	5 α -HT _{3A} -driven green fluorescent protein delineates gustatory fibers innervating sour-responsive taste cells: A labeled line for sour taste?. <i>Journal of Comparative Neurology</i> , 2017, 525, 2358-2375.	0.9	20
432	The Familial Dysautonomia disease gene, <i>Elp1</i> , is required in the developing and adult central nervous system. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 605-618.	1.2	28
434	Postnatal maturation of mouse medullo-spinal cerebrospinal fluid-contacting neurons. <i>Neuroscience</i> , 2017, 343, 39-54.	1.1	23
435	Taste versus shelf life: Intended use should guide selection of indigenous strains of <i>Gnetum L.</i> (<i>Gnetaceae</i>) for domestication in Africa. <i>South African Journal of Botany</i> , 2017, 113, 170-181.	1.2	3
436	Type III Cells in Anterior Taste Fields Are More Immunohistochemically Diverse Than Those of Posterior Taste Fields in Mice. <i>Chemical Senses</i> , 2017, 42, 759-767.	1.1	22
437	New Methods to Study Gustatory Coding. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	0
438	Light on a sensory interface linking the cerebrospinal fluid to motor circuits in vertebrates. <i>Journal of Neurogenetics</i> , 2017, 31, 113-127.	0.6	24
439	Genetic Labeling of Car4-expressing Cells Reveals Subpopulations of Type III Taste Cells. <i>Chemical Senses</i> , 2017, 42, 747-758.	1.1	23
440	Mind the Reward: Nutrition vs. Addiction. <i>Springer Series in Cognitive and Neural Systems</i> , 2017, , 469-489.	0.1	0
441	Molecular and cellular reorganization of neural circuits in the human lineage. <i>Science</i> , 2017, 358, 1027-1032.	6.0	192
442	Taste buds: cells, signals and synapses. <i>Nature Reviews Neuroscience</i> , 2017, 18, 485-497.	4.9	371
443	Unsung renal receptors: orphan G-protein-coupled receptors play essential roles in renal development and homeostasis. <i>Acta Physiologica</i> , 2017, 220, 189-200.	1.8	3
444	A biomimetic bioelectronic tongue: A switch for On- and Off- response of acid sensations. <i>Biosensors and Bioelectronics</i> , 2017, 92, 523-528.	5.3	20
446	Biomimetic Sensors for the Senses: Towards Better Understanding of Taste and Odor Sensation. <i>Sensors</i> , 2017, 17, 2881.	2.1	16

#	ARTICLE	IF	CITATIONS
447	Identification and Expression Analysis of the Complete Family of Zebrafish pkd Genes. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 5.	1.8	23
448	The Insula and Taste Learning. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 335.	1.4	51
449	Extraoral Taste Receptor Discovery: New Light on Ayurvedic Pharmacology. <i>Evidence-based Complementary and Alternative Medicine</i> , 2017, 2017, 1-30.	0.5	20
450	Sensory perception. , 2017, , 1-21.		1
451	Taste preference changes throughout different life stages in male rats. <i>PLoS ONE</i> , 2017, 12, e0181650.	1.1	27
452	Signalling from the gut lumen. <i>Animal Production Science</i> , 2017, 57, 2175.	0.6	6
453	Chemoreceptors in Evolution. , 2017, , 245-255.		11
454	pHirst sour taste channels pHound?. <i>Science</i> , 2018, 359, 991-992.	6.0	9
455	Otopetrin-1: A sour-tasting proton channel. <i>Journal of General Physiology</i> , 2018, 150, 379-382.	0.9	9
456	The spinal ependymal zone as a source of endogenous repair cells across vertebrates. <i>Progress in Neurobiology</i> , 2018, 170, 67-80.	2.8	63
457	An evolutionarily conserved gene family encodes proton-selective ion channels. <i>Science</i> , 2018, 359, 1047-1050.	6.0	188
458	Substance P as a putative efferent transmitter mediates GABAergic inhibition in mouse taste buds. <i>British Journal of Pharmacology</i> , 2018, 175, 1039-1053.	2.7	18
459	Active mechanosensory feedback during locomotion in the zebrafish spinal cord. <i>Current Opinion in Neurobiology</i> , 2018, 52, 48-53.	2.0	30
460	A review of the associations between single nucleotide polymorphisms in taste receptors, eating behaviors, and health. <i>Critical Reviews in Food Science and Nutrition</i> , 2018, 58, 194-207.	5.4	115
461	Natural product modulators of human sensations and mood: molecular mechanisms and therapeutic potential. <i>Chemical Society Reviews</i> , 2018, 47, 1592-1637.	18.7	28
462	Evaluation of feed flavor supplementation on the performance of lactating high-prolific sows in a tropical humid climate. <i>Animal Feed Science and Technology</i> , 2018, 236, 141-148.	1.1	11
463	Identifying the localization and exploring a functional role for Gprc5c in the kidney. <i>FASEB Journal</i> , 2018, 32, 2046-2059.	0.2	20
464	Fabrication and implementation of printed sensors for taste sensing applications. <i>Sensors and Actuators A: Physical</i> , 2018, 269, 53-61.	2.0	50

#	ARTICLE	IF	CITATIONS
465	Receptor Regulation in Taste: Can Diet Influence How We Perceive Foods?. J, 2018, 1, 106-115.	0.6	5
466	Enhancements in a Social Robotic Simulator for Indoor Environments. , 2018, , .		0
467	Ablation of <scp>NTPD</scp>ase2+ cells inhibits the formation of filiform papillae in tongue tip. Animal Models and Experimental Medicine, 2018, 1, 143-151.	1.3	2
468	Taste Receptor Tas2r5 and Tas1r3 is Expressed in Sublingual Gland. , 2018, 08, .		0
469	Spatiotemporal transcriptomic divergence across human and macaque brain development. Science, 2018, 362, .	6.0	279
470	Pkd2l1 is required for mechanoreception in cerebrospinal fluid-contacting neurons and maintenance of spine curvature. Nature Communications, 2018, 9, 3804.	5.8	112
471	ENaC in Cholinergic Brush Cells. Frontiers in Cell and Developmental Biology, 2018, 6, 89.	1.8	6
472	Cerebrospinal Fluid-Contacting Neurons Sense pH Changes and Motion in the Hypothalamus. Journal of Neuroscience, 2018, 38, 7713-7724.	1.7	27
473	Chemical synapses without synaptic vesicles: Purinergic neurotransmission through a CALHM1 channel-mitochondrial signaling complex. Science Signaling, 2018, 11, .	1.6	69
474	Consumer Segmentation Based on Genetic Variation in Taste and Smell. , 2018, , 423-447.		0
475	Deficiency of PKD2L1 (TRPP3) Exacerbates Pathological Cardiac Hypertrophy by Augmenting NCX1-Mediated Mitochondrial Calcium Overload. Cell Reports, 2018, 24, 1639-1652.	2.9	27
476	Peripheral and Central Nutrient Sensing Underlying Appetite Regulation. Trends in Neurosciences, 2018, 41, 526-539.	4.2	22
477	Metabolic control via nutrient-sensing mechanisms: role of taste receptors and the gut-brain neuroendocrine axis. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E559-E572.	1.8	55
478	Opening TRPP2 (<i>PKD2L1</i>) requires the transfer of gating charges. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15540-15549.	3.3	14
479	Sugars, sweet taste receptors, and brain responses. , 2019, , 265-283.		8
480	Ascl1 Balances Neuronal versus Ependymal Fate in the Spinal Cord Central Canal. Cell Reports, 2019, 28, 2264-2274.e3.	2.9	18
481	Sour Sensing from the Tongue to the Brain. Cell, 2019, 179, 392-402.e15.	13.5	158
482	Cellular and Neural Responses to Sour Stimuli Require the Proton Channel Otop1. Current Biology, 2019, 29, 3647-3656.e5.	1.8	132

#	ARTICLE	IF	CITATIONS
483	Koku in Food Science and Physiology. , 2019, , .		19
484	Expression of Renin-Angiotensin System Components in the Taste Organ of Mice. <i>Nutrients</i> , 2019, 11, 2251.	1.7	50
485	Acid Tongues Cause Sour Thoughts. <i>Cell</i> , 2019, 179, 287-289.	13.5	2
486	Regulation of the apical extension morphogenesis tunes the mechanosensory response of microvilliated neurons. <i>PLoS Biology</i> , 2019, 17, e3000235.	2.6	28
487	Next-Gen Approaches to Flavor-Related Metabolism. <i>Annual Review of Plant Biology</i> , 2019, 70, 187-212.	8.6	36
488	Distinct representations of basic taste qualities in human gustatory cortex. <i>Nature Communications</i> , 2019, 10, 1048.	5.8	56
489	A PKD1L3 splice variant in taste buds is not cleaved at the G protein-coupled receptor proteolytic site. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 812-818.	1.0	5
490	Is there adaptation in the human genome for taste perception and phase I biotransformation?. <i>BMC Evolutionary Biology</i> , 2019, 19, 39.	3.2	11
491	Graphite-Polyimide Sensor. <i>Smart Sensors, Measurement and Instrumentation</i> , 2019, , 129-168.	0.4	0
492	Population genomics identifies patterns of genetic diversity and selection in chicken. <i>BMC Genomics</i> , 2019, 20, 263.	1.2	34
493	Brain Imaging of Taste Perception in Obesity: a Review. <i>Current Nutrition Reports</i> , 2019, 8, 108-119.	2.1	27
494	Recognizing Taste: Coding Patterns Along the Neural Axis in Mammals. <i>Chemical Senses</i> , 2019, 44, 237-247.	1.1	58
495	Immune Responses Alter Taste Perceptions: Immunomodulatory Drugs Shape Taste Signals during Treatments. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 371, 684-691.	1.3	1
496	Fractionated head and neck irradiation impacts taste progenitors, differentiated taste cells, and Wnt/ β^2 -catenin signaling in adult mice. <i>Scientific Reports</i> , 2019, 9, 17934.	1.6	18
497	Genetic Background of Taste Perception, Taste Preferences, and Its Nutritional Implications: A Systematic Review. <i>Frontiers in Genetics</i> , 2019, 10, 1272.	1.1	88
498	The Functional and Neurobiological Properties of Bad Taste. <i>Physiological Reviews</i> , 2019, 99, 605-663.	13.1	58
499	GABA _B receptors modulate Ca ²⁺ but not G protein-activated inwardly rectifying K ⁺ channels in cerebrospinal fluid contacting neurones of mouse brainstem. <i>Journal of Physiology</i> , 2019, 597, 631-651.	1.3	10
500	Tuft Cells—Systemically Dispersed Sensory Epithelia Integrating Immune and Neural Circuitry. <i>Annual Review of Immunology</i> , 2019, 37, 47-72.	9.5	109

#	ARTICLE	IF	CITATIONS
501	Taste Sensor: Electronic Tongue with Lipid Membranes. <i>Analytical Sciences</i> , 2020, 36, 147-159.	0.8	56
502	Receptor, signal transduction and evolution of sweet, umami and bitter taste. <i>Marine Life Science and Technology</i> , 2020, 2, 6-15.	1.8	3
503	Improved Glucose Intolerance through a Distinct Mouse Olfactory Receptor 23â€œInduced Signaling Pathway Mediating Glucose Uptake in Myotubes and Adipocytes. <i>Molecular Nutrition and Food Research</i> , 2020, 64, 1901329.	1.5	4
504	Electrophysiological Responses from the Human Tongue to the Six Taste Qualities and Their Relationships with PROP Taster Status. <i>Nutrients</i> , 2020, 12, 2017.	1.7	12
505	Drinking Ice-Cold Water Reduces the Severity of Anticancer Drug-Induced Taste Dysfunction in Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8958.	1.8	5
506	A subset of broadly responsive Type III taste cells contribute to the detection of bitter, sweet and umami stimuli. <i>PLoS Genetics</i> , 2020, 16, e1008925.	1.5	32
507	Microphysiology of Taste Buds. , 2020, , 187-210.		5
508	Optogenetic Stimulation of Type I GAD65⁺ Cells in Taste Buds Activates Gustatory Neurons and Drives Appetitive Licking Behavior in Sodium-Depleted Mice. <i>Journal of Neuroscience</i> , 2020, 40, 7795-7810.	1.7	17
509	Adaptive selection drives TRPP3 loss-of-function in an Ethiopian population. <i>Scientific Reports</i> , 2020, 10, 20999.	1.6	2
510	Carbonic acid tablets promote submandibular-sublingual salivary secretion in humans. <i>Journal of Functional Foods</i> , 2020, 74, 104173.	1.6	1
511	Positive selection in admixed populations from Ethiopia. <i>BMC Genetics</i> , 2020, 21, 108.	2.7	6
512	Recent advances in development of biosensors for taste-related analyses. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 129, 115925.	5.8	34
513	Extraoral Taste Receptors. , 2020, , 353-381.		1
514	Can instrumental characterization help predicting sour taste perception of wheat sourdough bread?. <i>Food Research International</i> , 2020, 133, 109159.	2.9	10
515	Age-related taste cell generation in circumvallate papillae organoids via regulation of multiple signaling pathways. <i>Experimental Cell Research</i> , 2020, 394, 112150.	1.2	9
516	Understanding Taste Using<i>Drosophila melanogaster</i>. , 0, , .		2
517	Optogenetic Activation of Type III Taste Cells Modulates Taste Responses. <i>Chemical Senses</i> , 2020, 45, 533-539.	1.1	9
518	Sensory Neurons Contacting the Cerebrospinal Fluid Require the Reissner Fiber to Detect Spinal Curvature InÂVivo. <i>Current Biology</i> , 2020, 30, 827-839.e4.	1.8	72

#	ARTICLE	IF	CITATIONS
519	Genetic Differences in Taste Receptors: Implications for the Food Industry. Annual Review of Food Science and Technology, 2020, 11, 183-204.	5.1	20
520	Segregated Expression of ENaC Subunits in Taste Cells. Chemical Senses, 2020, 45, 235-248.	1.1	19
521	Preference for dietary fat: From detection to disease. Progress in Lipid Research, 2020, 78, 101032.	5.3	31
522	Insulin Function in Peripheral Taste Organ Homeostasis. Current Oral Health Reports, 2020, 7, 168-173.	0.5	0
523	Sensing Senses: Optical Biosensors to Study Gustation. Sensors, 2020, 20, 1811.	2.1	8
524	Sensory perception and wine assessment. , 2020, , 883-945.		1
525	Majority of cerebrospinal fluid-contacting neurons in the spinal cord of <i>C57Bl/6N</i> mice is present in ectopic position unlike in other studied experimental mice strains and mammalian species. Journal of Comparative Neurology, 2020, 528, 2523-2550.	0.9	13
526	On being the right shape: Roles for motile cilia and cerebrospinal fluid flow in body and spine morphology. Seminars in Cell and Developmental Biology, 2021, 110, 104-112.	2.3	25
527	Taste transduction and channel synapses in taste buds. Pflugers Archiv European Journal of Physiology, 2021, 473, 3-13.	1.3	70
529	Taste Receptor Signaling. Handbook of Experimental Pharmacology, 2021, , 1.	0.9	5
530	The Underlying Mechanism of Modulation of Transient Receptor Potential Melastatin 3 by protons. Frontiers in Pharmacology, 2021, 12, 632711.	1.6	1
531	A mechanistic overview of taste bud maintenance and impairment in cancer therapies. Chemical Senses, 2021, 46, .	1.1	6
532	The Neural Stem Cell Properties of PKD2L1+ Cerebrospinal Fluid-Contacting Neurons in vitro. Frontiers in Cellular Neuroscience, 2021, 15, 630882.	1.8	9
533	Variable Branching Characteristics of Peripheral Taste Neurons Indicates Differential Convergence. Journal of Neuroscience, 2021, 41, 4850-4866.	1.7	15
534	Molecular and Genetic Factors Involved in Olfactory and Gustatory Deficits and Associations with Microbiota in Parkinson's Disease. International Journal of Molecular Sciences, 2021, 22, 4286.	1.8	14
536	The hypothalamus predates the origin of vertebrates. Science Advances, 2021, 7, .	4.7	16
537	Sour taste: receptors, cells and circuits. Current Opinion in Physiology, 2021, 20, 8-15.	0.9	29
538	Type II/III cell composition and NCAM expression in taste buds. Cell and Tissue Research, 2021, 385, 557-570.	1.5	3

#	ARTICLE	IF	CITATIONS
539	Western Diet Induced Remodelling of the Tongue Proteome. <i>Proteomes</i> , 2021, 9, 22.	1.7	5
541	Evidence for PKD2L1 ⁺ positive neurons distant from the central canal in the ventromedial spinal cord and <i>medulla</i> of the adult mouse. <i>European Journal of Neuroscience</i> , 2021, 54, 4781-4803.	1.2	12
542	Molecular and cellular basis of acid taste sensation in <i>Drosophila</i> . <i>Nature Communications</i> , 2021, 12, 3730.	5.8	26
543	Limbic Expression of mRNA Coding for Chemoreceptors in Human Brain—Lessons from Brain Atlases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6858.	1.8	10
544	Recent Advances in Understanding Peripheral Taste Decoding I: 2010 to 2020. <i>Endocrinology and Metabolism</i> , 2021, 36, 469-477.	1.3	5
545	Mechanisms of lactic acid gustatory attraction in <i>Drosophila</i> . <i>Current Biology</i> , 2021, 31, 3525-3537.e6.	1.8	34
546	Structural basis for Ca ²⁺ activation of the heteromeric PKD1L3/PKD2L1 channel. <i>Nature Communications</i> , 2021, 12, 4871.	5.8	10
547	Novel, Fully Characterised Bovine Taste Bud Cells of Fungiform Papillae. <i>Cells</i> , 2021, 10, 2285.	1.8	2
548	Is it still still water? Relationships between sparkling sensitivity and consumption frequency of carbonated waters. <i>Food Research International</i> , 2021, 147, 110584.	2.9	1
549	Acid-Sensing Ion Channels: Expression and Function in Resident and Infiltrating Immune Cells in the Central Nervous System. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 738043.	1.8	14
550	Physiology of Taste Processing in the Tongue, Gut, and Brain. , 2021, 11, 2489-2523.		9
551	On the human taste perception: Molecular-level understanding empowered by computational methods. <i>Trends in Food Science and Technology</i> , 2021, 116, 445-459.	7.8	17
552	Loss of sweet taste despite the conservation of sweet receptor genes in insectivorous bats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
555	The Doorways of Perception. <i>SpringerBriefs in Biology</i> , 2011, , 35-43.	0.5	1
556	Oral and Extraoral Bitter Taste Receptors. <i>Results and Problems in Cell Differentiation</i> , 2011, 52, 87-99.	0.2	82
557	Reciprocal Modulation of Sweet Taste by Leptin and Endocannabinoids. <i>Results and Problems in Cell Differentiation</i> , 2011, 52, 101-114.	0.2	21
558	Information Processing in the Gustatory System. , 2014, , 783-796.		1
559	Gustatory and reward brain circuits in the control of food intake. <i>Advances and Technical Standards in Neurosurgery</i> , 2011, 36, 31-59.	0.2	27

#	ARTICLE	IF	CITATIONS
560	How the tongue tastes sour. <i>Nature</i> , 0, , .	13.7	1
561	CHAPTER 10. Optogenetic and Chemogenetic Tools for Drug Discovery in Schizophrenia. <i>RSC Drug Discovery Series</i> , 2015, , 234-272.	0.2	1
562	Application of Pattern Recognition Techniques in the Development of Electronic Tongues. <i>RSC Detection Science</i> , 2014, , 197-229.	0.0	2
563	From the Tongue to the Gut. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2011, 53, 601-605.	0.9	10
566	The Pharmacology and Signaling of Bitter, Sweet, and Umami Taste Sensing. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2007, 7, 87-98.	3.4	63
567	Altered trafficking and stability of polycystins underlie polycystic kidney disease. <i>Journal of Clinical Investigation</i> , 2014, 124, 5129-5144.	3.9	125
568	TRP Channels at the Periphery of the Taste and Trigeminal Systems. <i>Frontiers in Neuroscience</i> , 2017, , 113-124.	0.0	2
569	Taste as the Gatekeeper of Personalized Nutrition. , 2007, , 115-132.		3
570	Recent advances in taste transduction and signaling. <i>F1000Research</i> , 2019, 8, 2117.	0.8	56
571	Î²-catenin is required for taste bud cell renewal and behavioral taste perception in adult mice. <i>PLoS Genetics</i> , 2017, 13, e1006990.	1.5	32
572	Sour Ageusia in Two Individuals Implicates Ion Channels of the ASIC and PKD Families in Human Sour Taste Perception at the Anterior Tongue. <i>PLoS ONE</i> , 2009, 4, e7347.	1.1	79
573	Expression of Genes Encoding Multi-Transmembrane Proteins in Specific Primate Taste Cell Populations. <i>PLoS ONE</i> , 2009, 4, e7682.	1.1	35
574	Oxytocin Signaling in Mouse Taste Buds. <i>PLoS ONE</i> , 2010, 5, e11980.	1.1	47
575	Ghrelin Is Produced in Taste Cells and Ghrelin Receptor Null Mice Show Reduced Taste Responsivity to Salty (NaCl) and Sour (Citric Acid) Tastants. <i>PLoS ONE</i> , 2010, 5, e12729.	1.1	93
576	Sarco/Endoplasmic Reticulum Ca ²⁺ -ATPases (SERCA) Contribute to GPCR-Mediated Taste Perception. <i>PLoS ONE</i> , 2011, 6, e23165.	1.1	13
577	Kokumi Substances, Enhancers of Basic Tastes, Induce Responses in Calcium-Sensing Receptor Expressing Taste Cells. <i>PLoS ONE</i> , 2012, 7, e34489.	1.1	139
578	Defects in the Peripheral Taste Structure and Function in the MRL/lpr Mouse Model of Autoimmune Disease. <i>PLoS ONE</i> , 2012, 7, e35588.	1.1	34
579	Bitter Taste Stimuli Induce Differential Neural Codes in Mouse Brain. <i>PLoS ONE</i> , 2012, 7, e41597.	1.1	35

#	ARTICLE	IF	CITATIONS
580	Expression Analysis of Taste Signal Transduction Molecules in the Fungiform and Circumvallate Papillae of the Rhesus Macaque, <i>Macaca mulatta</i> . <i>PLoS ONE</i> , 2012, 7, e45426.	1.1	13
581	Identification and Characterization of Novel Renal Sensory Receptors. <i>PLoS ONE</i> , 2014, 9, e111053.	1.1	55
582	Physiological and Behavioral Responses to Optogenetic Stimulation of PKD2L1 ⁺ Type III Taste Cells. <i>ENeuro</i> , 2019, 6, ENEURO.0107-19.2019.	0.9	15
583	Behavioral Disassociation of Perceived Sweet Taste Intensity and Hedonically Positive Palatability. <i>ENeuro</i> , 2020, 7, ENEURO.0268-20.2020.	0.9	3
584	Sodium ⁺ Taste Cells Require <i>Skn-1a</i> for Generation and Share Molecular Features with Sweet, Umami, and Bitter Taste Cells. <i>ENeuro</i> , 2020, 7, ENEURO.0385-20.2020.	0.9	22
585	Genetics of Taste Receptors. <i>Current Pharmaceutical Design</i> , 2014, 20, 2669-2683.	0.9	153
586	Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019, 2019, .	0.2	7
588	The Evolution of Taste and Perinatal Programming of Taste Preferences. <i>Physiological Research</i> , 2018, 67, S421-S429.	0.4	14
589	Consequences of Obesity on the Sense of Taste: Taste Buds as Treatment Targets?. <i>Diabetes and Metabolism Journal</i> , 2020, 44, 509.	1.8	36
590	Atypical calcium regulation of the PKD2-L1 polycystin ion channel. <i>ELife</i> , 2016, 5, .	2.8	41
591	Structural and functional characterization of an otopetrin family proton channel. <i>ELife</i> , 2019, 8, .	2.8	20
592	Polycystin-L. <i>The AFCS-nature Molecule Pages</i> , 0, .	0.2	0
593	Neural Ensemble Recordings from Central Gustatory-Reward Pathways in Awake and Behaving Animals. <i>Frontiers in Neuroscience</i> , 2007, , 189-218.	0.0	1
594	Mechano- and Chemo-Sensory Polycystins. <i>Springer Series in Biophysics</i> , 2008, , 161-174.	0.4	0
595	Autosomal Dominant Polycystic Kidney Disease and Inherited Cystic Diseases. , 2008, , 2283-2313.		0
596	The Molecular Basis of Sour Sensing in Mammals. , 2014, , 27-43.		0
597	TASTE MASKING TECHNIQUES: A REVIEW. <i>Indian Drugs</i> , 2017, 54, 5-19.	0.1	0
598	Multimodal Digital Taste Experience with D ⁺ Licious Vessel. <i>Lecture Notes in Computer Science</i> , 2015, , 409-418.	1.0	0

#	ARTICLE	IF	CITATIONS
599	Molecular mechanism underlying CO ₂ sensing in the olfactory system. Journal of Japan Association on Odor Environment, 2015, 46, 209-217.	0.1	0
602	Chemische Sinne. , 2017, , 667-693.		0
603	TRP Channels at the Periphery of the Taste and Trigeminal Systems. , 2017, , 113-124.		3
604	TRP Channels: What Do They Look Like?. Frontiers in Neuroscience, 2017, , 1-10.	0.0	0
605	PHYSIOLOGY OF TASTE PERCEPTION: THE ROLE OF GENETIC AND ENVIRONMENTAL FACTORS IN THE FORMATION OF TASTE PREFERENCES. Rossiyskiy Vestnik Perinatologii I Pediatrii, 2018, 63, 23-29.	0.1	3
606	Mechanism of Kokumi Substance Perception: Role of Calcium-Sensing Receptor (CaSR) in Perceiving Kokumi Substances. , 2019, , 135-169.		0
611	Taste Genetics. , 2020, , 264-279.		1
612	Chemistry of Gustatory Stimuli. , 2020, , 24-64.		0
613	Buffering capacity of saliva influences the perception of acid-related sensory properties. Food Quality and Preference, 2022, 97, 104454.	2.3	4
618	Taste bud regeneration and the search for taste progenitor cells. Archives Italiennes De Biologie, 2010, 148, 107-18.	0.1	37
620	The Influence of Assay Design, Blinding, and on Sucrose Detection by Humans. Journal of Undergraduate Neuroscience Education: JUNE: A Publication of FUN, Faculty for Undergraduate Neuroscience, 2016, 15, A18-A23.	0.6	1
621	It's all a matter of taste: gustatory processing and ingestive decisions. Missouri Medicine, 2010, 107, 247-51.	0.3	2
623	The Cellular and Molecular Basis of Sour Taste. Annual Review of Physiology, 2022, 84, 41-58.	5.6	12
624	Mechanisms for the Sour Taste. Handbook of Experimental Pharmacology, 2021, , 229-245.	0.9	1
625	Biophysics of Flavour Perception. Food Chemistry, Function and Analysis, 2022, , 109-136.	0.1	0
626	The evolution of sour taste. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20211918.	1.2	12
627	The Role of Insulin Signaling in Mammalian Peripheral Taste Tissue: From Taste Modulation to Maintenance of Taste Bud Homeostasis. Kagaku To Seibutsu, 2021, 59, 122-129.	0.0	0
628	Polycystin-2 (TRPP2): Ion channel properties and regulation. Gene, 2022, 827, 146313.	1.0	5

#	ARTICLE	IF	CITATIONS
629	Molecular insights into human taste perception and umami tastants: A review. <i>Journal of Food Science</i> , 2022, 87, 1449-1465.	1.5	16
630	Taste Bud Connectome: Implications for Taste Information Processing. <i>Journal of Neuroscience</i> , 2022, 42, 804-816.	1.7	17
631	Preparation and application of taste bud organoids in biomedicine towards chemical sensation mechanisms. <i>Biotechnology and Bioengineering</i> , 2022, 119, 2015-2030.	1.7	2
632	Taste Cells and Calcium Signaling. <i>Food and Nutritional Components in Focus</i> , 2015, , 413-430.	0.1	0
633	Tastant. , 2009, , 4014-4019.		0
639	Taste receptor gene expression is associated with decreased eGFR in patients with diabetes. <i>Journal of Medical Investigation</i> , 2022, 69, 120-126.	0.2	1
641	Biohybrid Tongue for Evaluation of Taste Interaction between Sweetness and Sourness. <i>Analytical Chemistry</i> , 2022, 94, 6976-6985.	3.2	10
642	METTL3-mediated m6A RNA methylation regulates dorsal lingual epithelium homeostasis. <i>International Journal of Oral Science</i> , 2022, 14, 26.	3.6	6
643	The Visayan Warty Pig (<i>Sus cebifrons</i>) Genome Provides Insight Into Chromosome Evolution and Sensory Adaptation in Pigs. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	3
644	The convolutional neural network as a tool to classify electroencephalography data resulting from the consumption of juice sweetened with caloric or non-caloric sweeteners. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	1
646	Maintenance and turnover of Sox2+ adult stem cells in the gustatory epithelium. <i>PLoS ONE</i> , 2022, 17, e0267683.	1.1	3
647	Advances in gustatory biomimetic biosensing technologies: InÂvitro and inÂvivo bioelectronic tongue. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 157, 116778.	5.8	11
648	Reprogramming cultured human fungiform (HBO) taste cells into neuron-like cells through in vitro induction. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 0, , .	0.7	0
649	Recent Progress in the Study of Taste Characteristics and the Nutrition and Health Properties of Organic Acids in Foods. <i>Foods</i> , 2022, 11, 3408.	1.9	30
650	The roles of two extracellular loops in proton sensing and permeation in human Otop1 proton channel. <i>Communications Biology</i> , 2022, 5, .	2.0	4
651	The GPCR properties of polycystin-1- A new paradigm. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	3
652	Molecular logic of salt taste reception in special reference to transmembrane channel-like 4 (TMC4). <i>Journal of Physiological Sciences</i> , 2022, 72, .	0.9	6
653	Graded spikes differentially signal neurotransmitter input in cerebrospinal fluid contacting neurons of the mouse spinal cord. <i>IScience</i> , 2023, 26, 105914.	1.9	3

#	ARTICLE	IF	CITATIONS
654	Optogenetics in taste research: A decade of enlightenment. <i>Oral Diseases</i> , 0, , .	1.5	0
655	Molecular Mechanism of L-Pyroglutamic Acid Interaction with the Human Sour Receptor. <i>Journal of Microbiology and Biotechnology</i> , 2023, 33, 203-210.	0.9	0
656	Ascl1-expressing cell differentiation in initially developed taste buds and taste organoids. <i>Cell and Tissue Research</i> , 0, , .	1.5	0
657	Alkaline taste sensation through the alkaliphile chloride channel in <i>Drosophila</i> . <i>Nature Metabolism</i> , 2023, 5, 466-480.	5.1	4
658	A transcription factor Etv1/Er81 is involved in the differentiation of sweet, umami, and sodium taste cells. <i>ENeuro</i> , 0, , ENEURO.0236-22.2023.	0.9	2
659	Polycystin Channel Complexes. <i>Annual Review of Physiology</i> , 2023, 85, 425-448.	5.6	7
660	CSF-contacting neurons respond to <i>Streptococcus pneumoniae</i> and promote host survival during central nervous system infection. <i>Current Biology</i> , 2023, 33, 940-956.e10.	1.8	10
661	Cerebrospinal fluid-contacting neuron tracing reveals structural and functional connectivity for locomotion in the mouse spinal cord. <i>ELife</i> , 0, 12, .	2.8	12
662	Anterior and Posterior Tongue Regions and Taste Papillae: Distinct Roles and Regulatory Mechanisms with an Emphasis on Hedgehog Signaling and Antagonism. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4833.	1.8	2
663	Vitamin C Deficiency in Osteogenic Disorder Shionogi/Shi Jcl- <i>od</i> / <i>i</i> / <i><i>od</i> / <i>i</i> > Rats: Effects on Sour Taste Preferences, Lick Rates, Chorda Tympani Nerve Responses, and Taste Transduction Elements. <i>Chemical Senses</i> , 0, , .	1.1	0
664	Polycystic kidney disease 2-like 1 channel contributes to the bitter aftertaste perception of quinine. <i>Scientific Reports</i> , 2023, 13, .	1.6	0
672	TRP (transient receptor potential) ion channel family: structures, biological functions and therapeutic interventions for diseases. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	20
673	Cerebrospinal fluid-contacting neurons: multimodal cells with diverse roles in the CNS. <i>Nature Reviews Neuroscience</i> , 2023, 24, 540-556.	4.9	10