Thomas E Taylor-Clark

List of Publications by Year
in descending order

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57	1,964	430874 18	254184 43
papers	citations	h-index	g-index

57	57	57	1907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prostaglandin-Induced Activation of Nociceptive Neurons via Direct Interaction with Transient Receptor Potential A1 (TRPA1). Molecular Pharmacology, 2008, 73, 274-281.	2.3	261
2	Expression and function of the ion channel TRPA1 in vagal afferent nerves innervating mouse lungs. Journal of Physiology, 2008, 586, 1595-1604.	2.9	259
3	Nitrooleic Acid, an Endogenous Product of Nitrative Stress, Activates Nociceptive Sensory Nerves via the Direct Activation of TRPA1. Molecular Pharmacology, 2009, 75, 820-829.	2.3	164
4	Mechanisms underlying the neuronal-based symptoms of allergy. Journal of Allergy and Clinical Immunology, 2014, 133, 1521-1534.	2.9	142
5	Phenotypic distinctions between neural crest and placodal derived vagal C-fibres in mouse lungs. Journal of Physiology, 2010, 588, 4769-4783.	2.9	132
6	Ozone activates airway nerves via the selective stimulation of TRPA1 ion channels. Journal of Physiology, 2010, 588, 423-433.	2.9	112
7	Transient Receptor Potential Ankyrin 1 Mediates Toluene Diisocyanateâ€“Evoked Respiratory Irritation. American Journal of Respiratory Cell and Molecular Biology, 2009, 40, 756-762.	2.9	96
8	Transduction mechanisms in airway sensory nerves. Journal of Applied Physiology, 2006, 101, 950-959.	2.5	95
9	Nasal sensory nerve populations responding to histamine and capsaicin. Journal of Allergy and Clinical Immunology, 2005, 116, 1282-1288.	2.9	65
10	Sensing pulmonary oxidative stress by lung vagal afferents. Respiratory Physiology and Neurobiology, 2011, 178, 406-413.	1.6	61
11	The exceptionally high reactivity of Cys 621 is critical for electrophilic activation of the sensory nerve ion channel TRPA1. Journal of General Physiology, 2016, 147, 451-465.	1.9	47
12	Mapping of Sensory Nerve Subsets within the Vagal Ganglia and the Brainstem Using Reporter Mice for Pirt, TRPV1, 5-HT3, and Tac1 Expression. ENeuro, 2020, 7, ENEURO.0494-19.2020.	1.9	47
13	Sensory Nerve Terminal Mitochondrial Dysfunction Activates Airway Sensory Nerves via Transient Receptor Potential (TRP) Channels. Molecular Pharmacology, 2013, 83, 1007-1019.	2.3	46
14	Role of reactive oxygen species and TRP channels in the cough reflex. Cell Calcium, 2016, 60, 155-162.	2.4	45
15	Histamine receptors that influence blockage of the normal human nasal airway. British Journal of Pharmacology, 2005, 144, 867-874.	5.4	42
16	TRPA1: A potential target for anti-tussive therapy. Pulmonary Pharmacology and Therapeutics, 2009, 22, 71-74.	2.6	42
17	Sensory Nerve Terminal Mitochondrial Dysfunction Induces Hyperexcitability in Airway Nociceptors via Protein Kinase C. Molecular Pharmacology, 2014, 85, 839-848.	2.3	25
18	Histamine-mediated mechanisms in the human nasal airway. Current Opinion in Pharmacology, 2005, 5, 214-220.	3.5	22

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19	Antimycin A-induced mitochondrial dysfunction activates vagal sensory neurons via ROS-dependent activation of TRPA1 and ROS-independent activation of TRPV1. Brain Research, 2019, 1715, 94-105.	2.2	18
20	Research Opportunities in Autonomic Neural Mechanisms of CardiopulmonaryÂRegulation. JACC Basic To Translational Science, 2022, 7, 265-293.	4.1	17
21	Histamine in Allergic Rhinitis. Advances in Experimental Medicine and Biology, 2010, 709, 33-41.	1.6	16
22	Differential Activation of TRPA1 by Diesel Exhaust Particles: Relationships between Chemical Composition, Potency, and Lung Toxicity. Chemical Research in Toxicology, 2019, 32, 1040-1050.	3.3	16
23	Thy1.2 YFP-16 Transgenic Mouse Labels a Subset of Large-Diameter Sensory Neurons that Lack TRPV1 Expression. PLoS ONE, 2015, 10, e0119538.	2.5	16
24	Modulation of mesenteric collecting lymphatic contractions by Ïƒ₁-receptor activation and nitric oxide production. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H839-H853.	3.2	15
25	Development of a Mouse Reporter Strain for the Purinergic P2X₂Receptor. ENeuro, 2020, 7, ENEURO.0203-20.2020.	1.9	15
26	Mapping of the Sensory Innervation of the Mouse Lung by Specific Vagal and Dorsal Root Ganglion Neuronal Subsets. ENeuro, 2022, 9, ENEURO.0026-22.2022.	1.9	14
27	Insights into the mechanisms of histamine-induced inflammation in the nasal mucosa. Pulmonary Pharmacology and Therapeutics, 2008, 21, 455-460.	2.6	13
28	Oxidative stress as activators of sensory nerves for cough. Pulmonary Pharmacology and Therapeutics, 2015, 35, 94-99.	2.6	13
29	Nociceptive pulmonaryâ€cardiac reflexes are altered in the spontaneously hypertensive rat. Journal of Physiology, 2019, 597, 3255-3279.	2.9	13
30	Peripheral neural circuitry in cough. Current Opinion in Pharmacology, 2015, 22, 9-17.	3.5	12
31	Aldosterone up-regulates voltage-gated potassium currents and NKCC1 protein membrane fractions. Scientific Reports, 2020, 10, 15604.	3.3	12
32	Mitochondrial modulation-induced activation of vagal sensory neuronal subsets by antimycin A, but not CCCP or rotenone, correlates with mitochondrial superoxide production. PLoS ONE, 2018, 13, e0197106.	2.5	11
33	Air Pollution-Induced Autonomic Modulation. Physiology, 2020, 35, 363-374.	3.1	11
34	Molecular identity, anatomy, gene expression and function of neural crest vs. placode-derived nociceptors in the lower airways. Neuroscience Letters, 2021, 742, 135505.	2.1	11
35	Carotid chemoreceptors tune breathing via multipath routing: reticular chain and loop operations supported by parallel spike train correlations. Journal of Neurophysiology, 2018, 119, 700-722.	1.8	9
36	Store-operated calcium entry in vagal sensory nerves is independent of Orai channels. Brain Research, 2013, 1503, 7-15.	2.2	6

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37	Improving redox sensitivity of roGFP1 by incorporation of selenocysteine at position 147. BMC Research Notes, 2018, 11, 827.	1.4	6
38	Reductions in External Divalent Cations Evoke Novel Voltage-Gated Currents in Sensory Neurons. PLoS ONE, 2012, 7, e31585.	2.5	5
39	Irritant Inhalation Evokes P Wave Morphological Changes in Spontaneously Hypertensive Rats via Reflex Modulation of the Autonomic Nervous System. Frontiers in Physiology, 2021, 12, 642299.	2.8	5
40	Antimycin A increases bronchopulmonary C-fiber excitability via protein kinase C alpha. Respiratory Physiology and Neurobiology, 2020, 278, 103446.	1.6	3
41	Contribution of tetrodotoxin-sensitive, voltage-gated sodium channels (Na_V1) to action potential discharge from mouse esophageal tension mechanoreceptors. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R672-R686.	1.8	2
42	Vague no more: Evidence of divergent central pathways of sensory nerves innervating the human airways. Journal of Physiology, 2020, 598, 5597-5598.	2.9	1
43	Functional evidence of distinct electrophile-induced activation states of the ion channel TRPA1. Biochemistry and Biophysics Reports, 2021, 27, 101044.	1.3	1
44	A nervous S1P of the lung: activation of airway nerves by sphingosineâ€1â€phosphate. Journal of Physiology, 2019, 597, 1785-1786.	2.9	0
45	Differential sensitivity of cinnamaldehyde-evoked calcium fluxes to ruthenium red in guinea pig and mouse trigeminal sensory neurons. BMC Research Notes, 2021, 14, 127.	1.4	0
46	The local environment of cysteine 621 determines the rapid electrophilic adduction and activation of hTRPA1. FASEB Journal, 2018, 32, 750.7.	0.5	0
47	Mitochondrial ROS activates PKC alpha translocation to the membrane of vagal sensory neurons.. FASEB Journal, 2018, 32, 864.3.	0.5	0
48	Mitochondrial dysfunction increases bronchopulmonary Câ€fiber excitability via PKC alpha signaling. FASEB Journal, 2019, 33, 719.6.	0.5	0
49	Development of a TRPA1 Reporter Mouse Model. FASEB Journal, 2019, 33, 824.12.	0.5	0
50	Adeno Associated Virus Mediated Neural Tracing of TRPV1â€Expressing Airway Afferent Nerves. FASEB Journal, 2019, 33, 546.5.	0.5	0
51	Complete NEM Modification of Highly Reactive Cysteines Induces Full TRPA1 Activation. FASEB Journal, 2019, 33, 824.11.	0.5	0
52	Altered Cardiopulmonary Reflexes Evoked by Irritants in Spontaneously Hypertensive Rats â€“ Effect of Route of Administration and Anesthetics. FASEB Journal, 2019, 33, 854.4.	0.5	0
53	Development of a P2X 2 Reporter Mouse Model. FASEB Journal, 2019, 33, 546.6.	0.5	0
54	SPARC: Intersectional labeling of vagal afferent nerve subsets using Cre and FLP dependent dual reporter strain. FASEB Journal, 2022, 36, .	0.5	0

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55	SPARC: Development of a TRPA1 Reporter Mouse Model. FASEB Journal, 2022, 36, .	0.5	0
56	Activation of Coldâ€Sensitive Afferents Inhibits Aberrant Irritantâ€evoked Cardiopulmonary Reflexes in the Spontaneously Hypertensive (SH) Rat. FASEB Journal, 2022, 36, .	0.5	0
57	SPARC: Visualization of geneticallyâ€labeled vagal and spinal afferent subsets innervating the mouse lung. FASEB Journal, 2022, 36, .	0.5	0