

Lu-Yuan Lee

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120
papers

3,651
citations

33
h-index

57
g-index

123
ext. papers

3,964
ext. citations

3.8
avg, IF

5.44
L-index

#	Paper	IF	Citations
120	2-aminoethoxydiphenyl borate is a common activator of TRPV1, TRPV2, and TRPV3. <i>Journal of Biological Chemistry</i> , 2004 , 279, 35741-8	5.4	378
119	Afferent properties and reflex functions of bronchopulmonary C-fibers. <i>Respiration Physiology</i> , 2001 , 125, 47-65		280
118	Mechanisms of dyspnea. <i>Chest</i> , 2010 , 138, 1196-201	5.3	116
117	Prostaglandin E(2) enhances chemical and mechanical sensitivities of pulmonary C fibers in the rat. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000 , 162, 528-33	10.2	101
116	Role of TRPV receptors in respiratory diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007 , 1772, 915-27	6.9	99
115	Role of TRPV1 in inflammation-induced airway hypersensitivity. <i>Current Opinion in Pharmacology</i> , 2009 , 9, 243-9	5.1	94
114	Altered expression of TRPV1 and sensitivity to capsaicin in pulmonary myelinated afferents following chronic airway inflammation in the rat. <i>Journal of Physiology</i> , 2008 , 586, 5771-86	3.9	93
113	PGE(2) sensitizes cultured pulmonary vagal sensory neurons to chemical and electrical stimuli. <i>Journal of Applied Physiology</i> , 2002 , 93, 1419-28	3.7	90
112	Sensory nerves in lung and airways. <i>Comprehensive Physiology</i> , 2014 , 4, 287-324	7.7	88
111	Bronchoconstriction triggered by breathing hot humid air in patients with asthma: role of cholinergic reflex. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 1190-6	10.2	76
110	Activation of pulmonary C fibres by adenosine in anaesthetized rats: role of adenosine A1 receptors. <i>Journal of Physiology</i> , 1998 , 508 (Pt 1), 109-18	3.9	76
109	Intravenous adenosine and dyspnea in humans. <i>Journal of Applied Physiology</i> , 2005 , 98, 180-5	3.7	71
108	Characterization of acid signaling in rat vagal pulmonary sensory neurons. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006 , 291, L58-65	5.8	63
107	Ca ²⁺ transient evoked by chemical stimulation is enhanced by PGE ₂ in vagal sensory neurons: role of cAMP/PKA signaling pathway. <i>Journal of Neurophysiology</i> , 2003 , 89, 1985-93	3.2	61
106	Histamine enhances vagal pulmonary C-fiber responses to capsaicin and lung inflation. <i>Respiration Physiology</i> , 1993 , 93, 83-96		59
105	Thermal sensitivity of isolated vagal pulmonary sensory neurons: role of transient receptor potential vanilloid receptors. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 291, R541-50	3.2	58
104	Prostaglandin E ₂ potentiates a TTX-resistant sodium current in rat capsaicin-sensitive vagal pulmonary sensory neurones. <i>Journal of Physiology</i> , 2005 , 564, 437-50	3.9	57

103	Chronic smoking enhances tachykinin synthesis and airway responsiveness in guinea pigs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001 , 25, 299-305	5.7	57
102	Airway irritation and cough evoked by inhaled cigarette smoke: role of neuronal nicotinic acetylcholine receptors. <i>Pulmonary Pharmacology and Therapeutics</i> , 2007 , 20, 355-64	3.5	56
101	Hypersensitivity of bronchopulmonary C-fibers induced by airway mucosal inflammation: cellular mechanisms. <i>Pulmonary Pharmacology and Therapeutics</i> , 2002 , 15, 199-204	3.5	54
100	Central ventilatory responses to O ₂ and CO ₂ at three levels of carotid chemoreceptor stimulation. <i>Respiration Physiology</i> , 1975 , 25, 319-33		53
99	Ozone enhances excitabilities of pulmonary C fibers to chemical and mechanical stimuli in anesthetized rats. <i>Journal of Applied Physiology</i> , 1998 , 85, 1509-15	3.7	52
98	Functional morphology and physiological properties of bronchopulmonary C-fiber afferents. <i>The Anatomical Record</i> , 2003 , 270, 17-24		48
97	Airway hyperresponsiveness to cigarette smoke in ovalbumin-sensitized guinea pigs. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000 , 161, 73-80	10.2	48
96	Stimulation of pulmonary vagal C-fibres by anandamide in anaesthetized rats: role of vanilloid type 1 receptors. <i>Journal of Physiology</i> , 2002 , 539, 947-55	3.9	46
95	Airway hyperresponsiveness induced by chronic exposure to cigarette smoke in guinea pigs: role of tachykinins. <i>Journal of Applied Physiology</i> , 1999 , 87, 1621-8	3.7	42
94	Pulmonary chemoreflexes elicited by intravenous injection of lactic acid in anesthetized rats. <i>Journal of Applied Physiology</i> , 1996 , 81, 2349-57	3.7	41
93	Mechanism of atrial natriuretic peptide release with increased inspiratory resistance. <i>Translational Research</i> , 1996 , 128, 322-8		41
92	Calcium transient evoked by TRPV1 activators is enhanced by tumor necrosis factor- α in rat pulmonary sensory neurons. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L483-92	5.8	40
91	Effects of human eosinophil granule-derived cationic proteins on C-fiber afferents in the rat lung. <i>Journal of Applied Physiology</i> , 2001 , 91, 1318-26	3.7	37
90	Role of pulmonary C fibers in adenosine-induced respiratory inhibition in anesthetized rats. <i>Journal of Applied Physiology</i> , 1998 , 84, 417-24	3.7	36
89	2-aminoethoxydiphenyl borate stimulates pulmonary C neurons via the activation of TRPV channels. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005 , 288, L932-41	5.8	33
88	Cigarette smoke-induced bronchoconstriction and release of tachykinins in guinea pig lungs. <i>Respiration Physiology</i> , 1995 , 99, 173-81		33
87	TRPV1 as a cough sensor and its temperature-sensitive properties. <i>Pulmonary Pharmacology and Therapeutics</i> , 2011 , 24, 280-5	3.5	32
86	Sensitization of isolated rat vagal pulmonary sensory neurons by eosinophil-derived cationic proteins. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 294, L544-52	5.8	32

85	Hypersensitivity of pulmonary C fibers induced by adenosine in anesthetized rats. <i>Journal of Applied Physiology</i> , 2003 , 95, 1315-24; discussion 1314	3.7	32
84	Interaction between TRPA1 and TRPV1: Synergy on pulmonary sensory nerves. <i>Pulmonary Pharmacology and Therapeutics</i> , 2015 , 35, 87-93	3.5	30
83	Plasticity of peripheral mechanisms of cough. <i>Respiratory Physiology and Neurobiology</i> , 2006 , 152, 298-318	3.8	29
82	Calcium transient evoked by nicotine in isolated rat vagal pulmonary sensory neurons. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 292, L54-61	5.8	28
81	Hyperthermia increases sensitivity of pulmonary C-fibre afferents in rats. <i>Journal of Physiology</i> , 2005 , 565, 295-308	3.9	28
80	Mechanisms of eosinophil major basic protein-induced hyperexcitability of vagal pulmonary chemosensitive neurons. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 296, L453-61	5.8	27
79	The pulmonary effects of intravenous adenosine in asthmatic subjects. <i>Respiratory Research</i> , 2006 , 7, 139	7.3	27
78	Acute hypoxia prolongs the apnea induced by right atrial injection of capsaicin. <i>Journal of Applied Physiology</i> , 2003 , 94, 1446-54	3.7	26
77	Postjunctional inhibitory effect of the NK2 receptor antagonist, SR 48968, on sensory NANC bronchoconstriction in the guinea-pig. <i>British Journal of Pharmacology</i> , 1993 , 109, 765-73	8.6	24
76	Airway inflammation and hypersensitivity induced by chronic smoking. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 178, 395-405	2.8	23
75	Role of tachykinins in ozone-induced airway hyperresponsiveness to cigarette smoke in guinea pigs. <i>Journal of Applied Physiology</i> , 1997 , 83, 958-65	3.7	23
74	Effect of increasing temperature on TRPV1-mediated responses in isolated rat pulmonary sensory neurons. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 294, L563-71	5.8	23
73	A synergistic effect of simultaneous TRPA1 and TRPV1 activations on vagal pulmonary C-fiber afferents. <i>Journal of Applied Physiology</i> , 2015 , 118, 273-81	3.7	22
72	Hypersensitivity of pulmonary chemosensitive neurons induced by activation of protease-activated receptor-2 in rats. <i>Journal of Physiology</i> , 2006 , 574, 867-76	3.9	22
71	Alveolar hypercapnia augments pulmonary C-fiber responses to chemical stimulants: role of hydrogen ion. <i>Journal of Applied Physiology</i> , 2002 , 93, 181-8	3.7	22
70	Role of calcium ions in the positive interaction between TRPA1 and TRPV1 channels in bronchopulmonary sensory neurons. <i>Journal of Applied Physiology</i> , 2015 , 118, 1533-43	3.7	21
69	Sensitizing effects of chronic exposure and acute inhalation of ovalbumin aerosol on pulmonary C fibers in rats. <i>Journal of Applied Physiology</i> , 2008 , 105, 128-38	3.7	21
68	Blockade of airway sensory nerves and dyspnea in humans. <i>Pulmonary Pharmacology and Therapeutics</i> , 2010 , 23, 279-82	3.5	20

67	Acid-Sensing Ion Channels and Pain. <i>Pharmaceuticals</i> , 2010 , 3, 1411-1425	5.2	19
66	Bronchoconstriction induced by hyperventilation with humidified hot air: role of TRPV1-expressing airway afferents. <i>Journal of Applied Physiology</i> , 2009 , 106, 1917-24	3.7	19
65	Effect of protease-activated receptor 2 activation on single TRPV1 channel activities in rat vagal pulmonary sensory neurons. <i>Experimental Physiology</i> , 2009 , 94, 928-36	2.4	19
64	Expression of neuronal nicotinic acetylcholine receptors in rat vagal pulmonary sensory neurons. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 161, 87-91	2.8	19
63	A dose-response relationship between exposure to cockroach allergens and induction of sensitization in an experimental asthma in Hartley guinea pigs. <i>Journal of Allergy and Clinical Immunology</i> , 1998 , 101, 653-9	11.5	19
62	Cigarette smoke-induced bronchoconstriction: causative agents and role of thromboxane receptors. <i>Journal of Applied Physiology</i> , 1996 , 81, 2053-9	3.7	19
61	Inhibitory effect of gas phase cigarette smoke on breathing: role of hydroxyl radical. <i>Respiration Physiology</i> , 1990 , 82, 227-38		19
60	Stimulatory effect of CO ₂ on vagal bronchopulmonary C-fiber afferents during airway inflammation. <i>Journal of Applied Physiology</i> , 2005 , 99, 1704-11	3.7	18
59	Acid-sensing by airway afferent nerves. <i>Pulmonary Pharmacology and Therapeutics</i> , 2013 , 26, 491-7	3.5	17
58	Hydrogen sulfide induces hypersensitivity of rat capsaicin-sensitive lung vagal neurons: role of TRPA1 receptors. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R769-79	3.2	17
57	Effect of smoking on cough reflex sensitivity: basic and preclinical studies. <i>Lung</i> , 2010 , 188 Suppl 1, S23-Z.9		17
56	Epinephrine enhances the sensitivity of rat vagal chemosensitive neurons: role of beta3-adrenoceptor. <i>Journal of Applied Physiology</i> , 2007 , 102, 1545-55	3.7	17
55	Airway irritation and cough evoked by acid: from human to ion channel. <i>Current Opinion in Pharmacology</i> , 2011 , 11, 238-47	5.1	14
54	Regulation of acid signaling in rat pulmonary sensory neurons by protease-activated receptor-2. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 298, L454-61	5.8	14
53	Pulmonary chemoreflex responses are potentiated by tumor necrosis factor-alpha in mice. <i>Journal of Applied Physiology</i> , 2013 , 114, 1536-43	3.7	13
52	Effects of airway anesthesia on dyspnea and ventilatory response to intravenous injection of adenosine in healthy human subjects. <i>Pulmonary Pharmacology and Therapeutics</i> , 2008 , 21, 208-13	3.5	13
51	Comparison of capsaicin-evoked calcium transients between rat nodose and jugular ganglion neurons. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002 , 97, 83-8	2.4	13
50	KCNQ/M-channels regulate mouse vagal bronchopulmonary C-fiber excitability and cough sensitivity. <i>JCI Insight</i> , 2019 , 4,	9.9	13

49	Cough and expiration reflexes elicited by inhaled irritant gases are intensified in ovalbumin-sensitized mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 312, R718-R726	3.2	12
48	Hypersensitivity of Vagal Pulmonary Afferents Induced by Tumor Necrosis Factor Alpha in Mice. <i>Frontiers in Physiology</i> , 2017 , 8, 411	4.6	12
47	Lack of potentiating effect of increasing temperature on responses to chemical activators in vagal sensory neurons isolated from TRPV1-null mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 295, L897-904	5.8	11
46	Immediate and delayed potentiating effects of tumor necrosis factor- α on TRPV1 sensitivity of rat vagal pulmonary sensory neurons. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L293-L304	5.8	10
45	House dust mite potentiates capsaicin-evoked Ca ²⁺ transients in mouse pulmonary sensory neurons via activation of protease-activated receptor-2. <i>Experimental Physiology</i> , 2012 , 97, 534-43	2.4	10
44	Mechanisms of bronchopulmonary C-fiber hypersensitivity induced by cationic proteins. <i>Pulmonary Pharmacology and Therapeutics</i> , 2003 , 16, 15-22	3.5	10
43	Mechanisms of chronic cough. <i>Pulmonary Pharmacology and Therapeutics</i> , 2004 , 17, 463-4	3.5	10
42	Stimulatory Effect of 5-Hydroxytryptamine (5-HT) on Rat Capsaicin-Sensitive Lung Vagal Sensory Neurons via Activation of 5-HT Receptors. <i>Frontiers in Physiology</i> , 2019 , 10, 642	4.6	9
41	Breathing hot humid air induces airway irritation and cough in patients with allergic rhinitis. <i>Respiratory Physiology and Neurobiology</i> , 2014 , 198, 13-9	2.8	9
40	Bronchoconstriction induced by increasing airway temperature in ovalbumin-sensitized rats: role of tachykinins. <i>Journal of Applied Physiology</i> , 2013 , 115, 688-96	3.7	9
39	Ovalbumin sensitization alters the ventilatory responses to chemical challenges in guinea pigs. <i>Journal of Applied Physiology</i> , 2005 , 99, 1782-8	3.7	9
38	Prenatal nicotinic exposure upregulates pulmonary C-fiber NK1R expression to prolong pulmonary C-fiber-mediated apneic response. <i>Toxicology and Applied Pharmacology</i> , 2016 , 290, 107-15	4.6	8
37	Sustained sensitizing effects of tumor necrosis factor alpha on sensory nerves in lung and airways. <i>Pulmonary Pharmacology and Therapeutics</i> , 2017 , 47, 29-37	3.5	7
36	Airway hypersensitivity induced by eosinophil granule-derived cationic proteins. <i>Pulmonary Pharmacology and Therapeutics</i> , 2019 , 57, 101804	3.5	6
35	TRPA1 ion channels: a gateway to airway irritation and reflex responses induced by inhaled oxidants. <i>Journal of Physiology</i> , 2010 , 588, 747-8	3.9	6
34	Sensitization of pulmonary chemosensitive neurons by bombesin-like peptides in rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005 , 289, L1104-12	5.8	6
33	Cough responses to inhaled irritants are enhanced by eosinophil major basic protein in awake mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R93-R97	3.2	5
32	From the Cover: Prenatal Nicotinic Exposure Attenuates Respiratory Chemoreflexes Associated With Downregulation of Tyrosine Hydroxylase and Neurokinin 1 Receptor in Rat Pup Carotid Body. <i>Toxicological Sciences</i> , 2016 , 153, 103-11	4.4	5

31	Prostaglandin E2 enhances the sensitizing effect of hyperthermia on pulmonary C-fibers in rats. <i>Respiratory Physiology and Neurobiology</i> , 2007 , 156, 241-9	2.8	5
30	Activation of dopamine D2-like receptors attenuates pulmonary C-fiber hypersensitivity in rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003 , 167, 1096-101	10.2	5
29	Hypersensitivity of pulmonary chemoreflex induced by poly-L-lysine: role of cationic charge. <i>Respiratory Physiology and Neurobiology</i> , 2006 , 151, 31-43	2.8	4
28	TRP channels in airway sensory nerves. <i>Neuroscience Letters</i> , 2021 , 748, 135719	3.3	4
27	Summary of papers presented at the 2012 seventh international cough symposium. <i>Cough</i> , 2013 , 9, 13		3
26	Hypersensitivity of vagal pulmonary C-fibers induced by increasing airway temperature in ovalbumin-sensitized rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R1285-91	3.2	2
25	Summary: peripheral pharmacology of cough. <i>Pulmonary Pharmacology and Therapeutics</i> , 2002 , 15, 217-9,5	3.5	2
24	Bronchopulmonary Vagal Afferent Nerves. <i>Frontiers in Neuroscience</i> , 2005 , 279-313		2
23	Hypersensitivity of bronchopulmonary C-fibers induced by an increase in airway temperature in ovalbumin (Ova)-sensitized Brown Norway rats.. <i>FASEB Journal</i> , 2013 , 27, 930.19	0.9	2
22	Mechanisms underlying the stimulatory effect of inhaled sulfur dioxide on vagal bronchopulmonary C-fibres. <i>Journal of Physiology</i> , 2020 , 598, 1093-1108	3.9	2
21	A Distinct Difference Between Air and Mucosal Temperatures in Human Respiratory Tract. <i>Frontiers in Medicine</i> , 2021 , 8, 650637	4.9	2
20	Airway extravasation induced by increasing airway temperature in ovalbumin-sensitized rats. <i>Respiratory Physiology and Neurobiology</i> , 2015 , 212-214, 46-9	2.8	1
19	Hemorrhagic hypotension-induced hypersensitivity of vagal pulmonary C-fibers to chemical stimulation and lung inflation in anesthetized rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 308, R605-13	3.2	1
18	Sensitization of isolated rat vagal pulmonary sensory neurons by human eosinophil granule-derived cationic proteins. <i>FASEB Journal</i> , 2007 , 21, A920	0.9	1
17	Cough response to sulfur dioxide inhalation challenge is enhanced by tumor necrosis factor alpha: a primary role of vagal bronchopulmonary C-fibers. <i>FASEB Journal</i> , 2018 , 32, 913.2	0.9	1
16	Tumor necrosis factor alpha (TNF α) potentiates pulmonary chemoreflex responses in anesthetized rats. <i>FASEB Journal</i> , 2009 , 23, 1010.14	0.9	1
15	Regulation of acid signaling by PAR2 in rat vagal pulmonary sensory nerves. <i>FASEB Journal</i> , 2009 , 23, 1009.10	0.9	1
14	Protease-Activated Receptor 2 2012 , 37-61		

- 13 Excitability of Pulmonary C fibers is elevated by ovalbumin sensitization in Brown-Norway rats. *FASEB Journal*, **2007**, 21, A959 0.9
- 12 Expression of neuronal nicotinic acetylcholine receptors in rat vagal pulmonary sensory neurons. *FASEB Journal*, **2008**, 22, 937.23 0.9
- 11 A lack of potentiating effect of increasing temperature on the responses to chemical activators in vagal sensory neurons isolated from TRPV1-null mice. *FASEB Journal*, **2008**, 22, 1172.13 0.9
- 10 Sensitivity to capsaicin is induced in pulmonary rapidly adapting receptors (RARs) by ovalbumin (Ova)-sensitization in Brown-Norway rats. *FASEB Journal*, **2008**, 22, 175-175 0.9
- 9 Positive Interaction between TRPA1 and TRPV1 Channels in Rat Vagal Bronchopulmonary Sensory Neurons. *FASEB Journal*, **2015**, 29, 860.1 0.9
- 8 Calcium Transient Evoked by Capsaicin is Enhanced by Tumor Necrosis Factor Alpha (TNF) in Pulmonary Sensory Neurons. *FASEB Journal*, **2009**, 23, LB158 0.9
- 7 Pulmonary Chemoreflex Responses Are Potentiated by Chronic Treatment of Tumor Necrosis Factor Alpha (TNF) in Mice. *FASEB Journal*, **2010**, 24, 799.5 0.9
- 6 Stimulatory Effect of 5-hydroxytryptamine (5-HT) on Rat Capsaicin-sensitive Vagal Pulmonary Sensory Neurons via Activation of 5-HT₃ Receptors. *FASEB Journal*, **2011**, 25, 1077.17 0.9
- 5 Bronchoconstriction induced by hyperventilation with humidified warm air in ovalbumin-sensitized Brown Norway rats. *FASEB Journal*, **2011**, 25, 864.15 0.9
- 4 Acute potentiating effects of tumor necrosis factor- α (TNF) on the responses of rat vagal pulmonary sensory neurons to capsaicin challenge. *FASEB Journal*, **2012**, 26, 892.3 0.9
- 3 Hypersensitivity of pulmonary C fiber induced by arterial hypotension in anesthetized rat. *FASEB Journal*, **2013**, 27, 930.20 0.9
- 2 Neural Control of Airway Smooth Muscle **2022**, 164-173
- 1 Mechanisms Involved in the Stimulatory and Inhibitory Effects of 5-Hydroxytryptamine on Vagal Mechanosensitive Afferents in Rat Lung.. *Frontiers in Physiology*, **2022**, 13, 813096 4.6