

Thomas Haller

List of Publications by Year in descending order

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59
papers

1,727
citations

257450

24
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

1443
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of nebulized Epoprostenol and Iloprost on hemoglobin oxygen affinity - an ex-vivo experiment. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, , .	2.9	4
2	Stimulation of surfactant exocytosis in primary alveolar type II cells by <i>A. fumigatus</i> . <i>Medical Mycology</i> , 2021, 59, 168-179.	0.7	3
3	High-throughput determination of oxygen dissociation curves in a microplate reader – A novel, quantitative approach. <i>Physiological Reports</i> , 2021, 9, e14995.	1.7	6
4	Dose- and Sex-Dependent Changes in Hemoglobin Oxygen Affinity by the Micronutrient 5-Hydroxymethylfurfural and \pm -Ketoglutaric Acid. <i>Nutrients</i> , 2021, 13, 3448.	4.1	5
5	Effects of Carbon Dioxide and Temperature on the Oxygen-Hemoglobin Dissociation Curve of Human Blood: Implications for Avalanche Victims. <i>Frontiers in Medicine</i> , 2021, 8, 808025.	2.6	4
6	tBHP treatment as a model for cellular senescence and pollution-induced skin aging. <i>Mechanisms of Ageing and Development</i> , 2020, 190, 111318.	4.6	19
7	Migrating Lung Monocytes Internalize and Inhibit Growth of <i>Aspergillus fumigatus</i> Conidia. <i>Pathogens</i> , 2020, 9, 983.	2.8	4
8	Polarized light microscopy reveals physiological and drug-induced changes in surfactant membrane assembly in alveolar type II pneumocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1152-1161.	2.6	20
9	A small key unlocks a heavy door: The essential function of the small hydrophobic proteins SP-B and SP-C to trigger adsorption of pulmonary surfactant lamellar bodies. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2124-2134.	4.1	38
10	LATE-BREAKING ABSTRACT: Interfacial sensing a new regulator of pulmonary epithelial barrier function. , 2016, , .		0
11	Pneumocytes Assemble Lung Surfactant as Highly Packed/Dehydrated States with Optimal Surface Activity. <i>Biophysical Journal</i> , 2015, 109, 2295-2306.	0.5	21
12	A new role for an old drug: Ambroxol triggers lysosomal exocytosis via pH-dependent Ca^{2+} release from acidic Ca^{2+} stores. <i>Cell Calcium</i> , 2015, 58, 628-637.	2.4	46
13	Human Decidua-Derived Mesenchymal Stem Cells Differentiate into Functional Alveolar Type II-Like Cells that Synthesize and Secrete Pulmonary Surfactant Complexes. <i>PLoS ONE</i> , 2014, 9, e110195.	2.5	20
14	Physiological variables affecting surface film formation by native lamellar body-like pulmonary surfactant particles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1842-1850.	2.6	23
15	Nontoxic impact of PEG-coated gold nanospheres on functional pulmonary surfactant-secreting alveolar type II cells. <i>Nanotoxicology</i> , 2014, 8, 813-823.	3.0	23
16	Spatio-temporal aspects, pathways and actions of Ca^{2+} in surfactant secreting pulmonary alveolar type II pneumocytes. <i>Cell Calcium</i> , 2012, 52, 296-302.	2.4	39
17	Fluorescence and Infrared Spectroscopy for the Study of Structure and Lipid Packing/Hydration in Pulmonary Surfactant Membranes and Lamellar Body -Like Particles. <i>Biophysical Journal</i> , 2012, 102, 647a-648a.	0.5	1
18	Adsorption Mechanism of Pulmonary Surfactant Lamellar Bodies at the Air-Liquid Interface. <i>Biophysical Journal</i> , 2012, 102, 647a.	0.5	0

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19	Interfacial stress affects rat alveolar type II cell signaling and gene expression. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 303, L117-L129.	2.9	18
20	Effect of exogenous surfactants on viability and DNA synthesis in A549, immortalized mouse type II and isolated rat alveolar type II cells. <i>BMC Pulmonary Medicine</i> , 2011, 11, 11.	2.0	12
21	Fusion-activated Ca ²⁺ entry via vesicular P2X ₄ receptors promotes fusion pore opening and exocytotic content release in pneumocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14503-14508.	7.1	78
22	Interfacial sensing by alveolar type II cells: a new concept in lung physiology?. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C1456-C1465.	4.6	26
23	Recent advances in alveolar biology: Some new looks at the alveolar interface. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, S55-S64.	1.6	48
24	Effects of Perfluorocarbons on surfactant exocytosis and membrane properties in isolated alveolar type II cells. <i>Respiratory Research</i> , 2010, 11, 52.	3.6	8
25	Lamellar Bodies Form Solid Three-dimensional Films at the Respiratory Air-Liquid Interface. <i>Journal of Biological Chemistry</i> , 2010, 285, 28174-28182.	3.4	29
26	Fusion-Activated Ca ²⁺ Entry: An "Active Zone" of Elevated Ca ²⁺ during the Postfusion Stage of Lamellar Body Exocytosis in Rat Type II Pneumocytes. <i>PLoS ONE</i> , 2010, 5, e10982.	2.5	36
27	Existence of exocytotic hemifusion intermediates with a lifetime of up to seconds in type II pneumocytes. <i>Biochemical Journal</i> , 2009, 424, 7-14.	3.7	23
28	High-throughput evaluation of pulmonary surfactant adsorption and surface film formation. <i>Journal of Lipid Research</i> , 2008, 49, 2479-2488.	4.2	26
29	Long-term exposure to LPS enhances the rate of stimulated exocytosis and surfactant secretion in alveolar type II cells and upregulates P2Y ₂ receptor expression. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 295, L708-L717.	2.9	26
30	A Fluorescent Microplate Assay for Exocytosis in Alveolar Type II Cells. <i>Journal of Biomolecular Screening</i> , 2006, 11, 286-295.	2.6	22
31	Ca ²⁺ Induced Surfactant Secretion in Alveolar Type II Cultures Isolated from the H-2K ^b -tsA58 Transgenic Mouse. <i>Cellular Physiology and Biochemistry</i> , 2005, 15, 159-166.	1.6	10
32	EXOCYTOSIS OF LUNG SURFACTANT: From the Secretory Vesicle to the Air-Liquid Interface. <i>Annual Review of Physiology</i> , 2005, 67, 595-621.	13.1	111
33	Optical Measurement of Surface Tension in a Miniaturized Air-Liquid Interface and its Application in Lung Physiology. <i>Biophysical Journal</i> , 2005, 89, 1353-1361.	0.5	31
34	Ca ²⁺ entry is essential for cell strain-induced lamellar body fusion in isolated rat type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L210-L220.	2.9	48
35	Pulmonary Consequences of a Deep Breath Revisited. <i>Neonatology</i> , 2004, 85, 299-304.	2.0	34
36	Inhibition by cytoplasmic nucleotides of a new cation channel in freshly isolated human and rat type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L1284-L1292.	2.9	11

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37	Reduction of intracellular pH inhibits constitutive expression of Cyclooxygenase-2 in human colon cancer cells. <i>Journal of Cellular Physiology</i> , 2004, 198, 295-301.	4.1	9
38	Mechanical Forces Impeding Exocytotic Surfactant Release Revealed by Optical Tweezers. <i>Biophysical Journal</i> , 2003, 84, 1344-1351.	0.5	43
39	Simvastatin Inhibits Malignant Transformation Following Expression of the <i>Ha-ras</i> Oncogene in NIH 3T3 Fibroblasts. <i>Cellular Physiology and Biochemistry</i> , 2002, 12, 19-30.	1.6	13
40	Signal transduction pathways in directed migration of human monocytes induced by human growth hormone in vitro. <i>International Immunopharmacology</i> , 2001, 1, 1351-1361.	3.8	13
41	Mechanisms of Surfactant Exocytosis in Alveolar Type II Cells In Vitro and In Vivo. <i>Physiology</i> , 2001, 16, 239-243.	3.1	27
42	A SUBPOPULATION OF MITOCHONDRIA PREVENTS CYTOSOLIC CALCIUM OVERLOAD IN ENDOTHELIAL CELLS AFTER COLD ISCHEMIA/REPERFUSION. <i>Transplantation</i> , 2001, 71, 1821-1827.	1.0	20
43	Inhibition of ATP-induced surfactant exocytosis by dihydropyridine (DHP) derivatives: a non-stereospecific, photoactivated effect and independent of L-type Ca ²⁺ channels. <i>Biochemical Pharmacology</i> , 2001, 61, 1161-1167.	4.4	8
44	The conception of fusion pores as rate-limiting structures for surfactant secretion. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001, 129, 227-231.	1.8	13
45	Fusion pore expansion is a slow, discontinuous, and Ca ²⁺ -dependent process regulating secretion from alveolar type II cells. <i>Journal of Cell Biology</i> , 2001, 155, 279-290.	5.2	93
46	Secretion in Alveolar Type II Cells at the Interface of Constitutive and Regulated Exocytosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 25, 306-315.	2.9	60
47	PERSISTENT FUSION PORES BUT TRANSIENT FUSION IN ALVEOLAR TYPE II CELLS. <i>Cell Biology International</i> , 2000, 24, 803-807.	3.0	11
48	Threshold calcium levels for lamellar body exocytosis in type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 277, L893-L900.	2.9	40
49	Exocytosis in alveolar type II cells revealed by cell capacitance and fluorescence measurements. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 276, L376-L382.	2.9	30
50	Dynamics of surfactant release in alveolar type II cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 1579-1584.	7.1	140
51	Effects of bradykinin on NIH 3T3 fibroblasts pretreated with lithium. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997, 1358, 23-30.	4.1	9
52	Calcium Entry Stimulated by Swelling of Madin-Darby Canine Kidney Cells. <i>Nephron</i> , 1996, 74, 150-157.	0.6	10
53	The lysosomal Ca ²⁺ pool in MDCK cells can be released by ins(1,4,5)P ₃ -dependent hormones or thapsigargin but does not activate store-operated Ca ²⁺ entry. <i>Biochemical Journal</i> , 1996, 319, 909-912.	3.7	29
54	Two different store-operated Ca ²⁺ entry pathways in MDCK cells. <i>Cell Calcium</i> , 1996, 20, 11-19.	2.4	16

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55	The lysosomal compartment as intracellular calcium store in MDCK cells: a possible involvement in InsP ₃ -mediated Ca ²⁺ release. <i>Cell Calcium</i> , 1996, 19, 157-165.	2.4	106
56	A Respirometer for Investigating Oxidative Cell Metabolism: Toward Optimization of Respiratory Studies. <i>Analytical Biochemistry</i> , 1994, 218, 338-342.	2.4	99
57	Effects of taurine on Ca ²⁺ -dependent force development of skinned muscle fibre preparations. <i>Journal of Experimental Biology</i> , 1990, 152, 255-64.	1.7	40
58	Fractionation and kinetic properties of trehalase from flight muscles and haemolymph of the locust, <i>Locusta migratoria</i> . <i>Insect Biochemistry</i> , 1989, 19, 89-94.	1.8	16
59	Screening for organic acids in fish tissues with special reference to the distribution of taurine in <i>Rutilus rutilus</i> L.. <i>Fish Physiology and Biochemistry</i> , 1987, 3, 145-149.	2.3	8