

Istvn Vadsz

List of Publications by Year in Descending Order

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Version: 2024-04-17

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

2,352
citations

29
h-index

46
g-index

95
ext. papers

2,830
ext. citations

6.4
avg, IF

4.87
L-index

#	Paper	IF	Citations
79	Mechanisms of Hypercapnia-Induced Endoplasmic Reticulum Dysfunction. <i>Frontiers in Physiology</i> , 2021 , 12, 735580	4.6	0
78	A comparison of airway pressures for inflation fixation of developing mouse lungs for stereological analyses. <i>Histochemistry and Cell Biology</i> , 2021 , 155, 203-214	2.4	2
77	Right ventricular pressure-volume loop shape and systolic pressure change in pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 320, L715-L725	5.8	4
76	Hypercapnia Induces Inositol-Requiring Enzyme 1-Driven Endoplasmic Reticulum-associated Degradation of the Na,K-ATPase β Subunit. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021 , 65, 615-629	5.7	2
75	Maturation of the Na,K-ATPase in the Endoplasmic Reticulum in Health and Disease. <i>Journal of Membrane Biology</i> , 2021 , 254, 447-457	2.3	3
74	TRAF2 Is a Novel Ubiquitin E3 Ligase for the Na,K-ATPase β Subunit That Drives Alveolar Epithelial Dysfunction in Hypercapnia. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 689983	5.7	1
73	Immunoglobulin deficiency as an indicator of disease severity in patients with COVID-19. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 320, L590-L599	5.8	5
72	Severe organising pneumonia following COVID-19. <i>Thorax</i> , 2021 , 76, 201-204	7.3	31
71	The HS-generating enzyme 3-mercaptopyruvate sulfurtransferase regulates pulmonary vascular smooth muscle cell migration and proliferation but does not impact normal or aberrant lung development. <i>Nitric Oxide - Biology and Chemistry</i> , 2021 , 107, 31-45	5	3
70	A novel non-invasive and echocardiography-derived method for quantification of right ventricular pressure-volume loops. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 ,	4.1	3
69	Renal markers for monitoring acute kidney injury transition to chronic kidney disease after COVID-19. <i>Nephrology Dialysis Transplantation</i> , 2021 , 36, 2143-2147	4.3	1
68	Hypercapnia Impairs Na,K-ATPase Function by Inducing Endoplasmic Reticulum Retention of the β Subunit of the Enzyme in Alveolar Epithelial Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
67	Multilineage murine stem cells generate complex organoids to model distal lung development and disease. <i>EMBO Journal</i> , 2020 , 39, e103476	13	17
66	Extracorporeal Carbon Dioxide Removal Using a Renal Replacement Therapy Platform to Enhance Lung-Protective Ventilation in Hypercapnic Patients With Coronavirus Disease 2019-Associated Acute Respiratory Distress Syndrome. <i>Frontiers in Medicine</i> , 2020 , 7, 598379	4.9	9
65	Minoxidil Cannot Be Used To Target Lysyl Hydroxylases during Postnatal Mouse Lung Development: A Cautionary Note. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020 , 375, 478-487	4.7	0
64	Acute kidney injury and urinary biomarkers in hospitalized patients with coronavirus disease-2019. <i>Nephrology Dialysis Transplantation</i> , 2020 , 35, 1271-1274	4.3	18
63	Impact of litter size on survival, growth and lung alveolarization of newborn mouse pups. <i>Annals of Anatomy</i> , 2020 , 232, 151579	2.9	1

62	Commercially available transfection reagents and negative control siRNA are not inert. <i>Analytical Biochemistry</i> , 2020 , 606, 113828	3.1	0
61	Elevated FiO increases SARS-CoV-2 co-receptor expression in respiratory tract epithelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 319, L670-L674	5.8	7
60	Influenza A Virus Infection Induces Apical Redistribution of Na, K-ATPase in Lung Epithelial Cells and. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 395-398	5.7	2
59	IRE1 Signaling As a Putative Therapeutic Target in Influenza Virus-induced Pneumonia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 537-540	5.7	2
58	Estimation of absolute number of alveolar epithelial type 2 cells in mouse lungs: a comparison between stereology and flow cytometry. <i>Journal of Microscopy</i> , 2019 , 275, 36-50	1.9	9
57	The role of CD36 in endothelial albumin transcytosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 316, L738-L739	5.8	2
56	Mouse genetic background impacts susceptibility to hyperoxia-driven perturbations to lung maturation. <i>Pediatric Pulmonology</i> , 2019 , 54, 1060-1077	3.5	15
55	Targeting miR-34a/ interactions partially corrects alveologenesis in experimental bronchopulmonary dysplasia. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	27
54	Elevated CO regulates the Wnt signaling pathway in mammals, <i>Drosophila melanogaster</i> and <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2019 , 9, 18251	4.9	13
53	Control Interventions Can Impact Alveolarization and the Transcriptome in Developing Mouse Lungs. <i>Anatomical Record</i> , 2019 , 302, 346-363	2.1	5
52	Resident alveolar macrophages are master regulators of arrested alveolarization in experimental bronchopulmonary dysplasia. <i>Journal of Pathology</i> , 2018 , 245, 153-159	9.4	35
51	Stereological analysis of individual lung lobes during normal and aberrant mouse lung alveolarisation. <i>Journal of Anatomy</i> , 2018 , 232, 472-484	2.9	7
50	Transmission of microRNA antimirs to mouse offspring via the maternal-placental-fetal unit. <i>Rna</i> , 2018 , 24, 865-879	5.8	4
49	Targeting transglutaminase 2 partially restores extracellular matrix structure but not alveolar architecture in experimental bronchopulmonary dysplasia. <i>FEBS Journal</i> , 2018 , 285, 3056-3076	5.7	9
48	Caffeine administration modulates TGF- β signaling but does not attenuate blunted alveolarization in a hyperoxia-based mouse model of bronchopulmonary dysplasia. <i>Pediatric Research</i> , 2017 , 81, 795-805 ^{3.2}	3.2	25
47	Stereological monitoring of mouse lung alveolarization from the early postnatal period to adulthood. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 312, L882-L895 ^{5.8}	5.8	44
46	Keratinocyte growth factor in acute respiratory distress syndrome. <i>Lancet Respiratory Medicine</i> , 2017 , 5, 459-460	35.1	1
45	TGF- β inhibits alveolar protein transport by promoting shedding, regulated intramembrane proteolysis, and transcriptional downregulation of megalin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L807-L824	5.8	6

44	Perturbations to lysyl oxidase expression broadly influence the transcriptome of lung fibroblasts. <i>Physiological Genomics</i> , 2017 , 49, 416-429	3.6	23
43	Restoration of Megalin-Mediated Clearance of Alveolar Protein as a Novel Therapeutic Approach for Acute Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 57, 589-602	5.7	8
42	Tamoxifen dosing for Cre-mediated recombination in experimental bronchopulmonary dysplasia. <i>Transgenic Research</i> , 2017 , 26, 165-170	3.3	8
41	Hypercapnia Impairs ENaC Cell Surface Stability by Promoting Phosphorylation, Polyubiquitination and Endocytosis of ENaC in a Human Alveolar Epithelial Cell Line. <i>Frontiers in Immunology</i> , 2017 , 8, 591	8.4	18
40	Gas Exchange Disturbances Regulate Alveolar Fluid Clearance during Acute Lung Injury. <i>Frontiers in Immunology</i> , 2017 , 8, 757	8.4	27
39	Detrimental ELAVL-1/HuR-dependent GSK3 β mRNA stabilization impairs resolution in acute respiratory distress syndrome. <i>PLoS ONE</i> , 2017 , 12, e0172116	3.7	9
38	Standardisation of oxygen exposure in the development of mouse models for bronchopulmonary dysplasia. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 185-196	4.1	62
37	N-3 vs. n-6 fatty acids differentially influence calcium signalling and adhesion of inflammatory activated monocytes: impact of lipid rafts. <i>Inflammation Research</i> , 2016 , 65, 881-894	7.2	12
36	FXD1 negatively regulates Na(+)/K(+)-ATPase activity in lung alveolar epithelial cells. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 220, 54-61	2.8	14
35	Macrophage-epithelial paracrine crosstalk inhibits lung edema clearance during influenza infection. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1566-80	15.9	72
34	Influenza Virus Infects Epithelial Stem/Progenitor Cells of the Distal Lung: Impact on Fgfr2b-Driven Epithelial Repair. <i>PLoS Pathogens</i> , 2016 , 12, e1005544	7.6	72
33	Collagen and elastin cross-linking is altered during aberrant late lung development associated with hyperoxia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 308, L1145-58	5.8	47
32	PPAR α activation reduced LPS-induced inflammation in alveolar epithelial cells. <i>Experimental Lung Research</i> , 2015 , 41, 393-403	2.3	19
31	Immunomodulation by lipid emulsions in pulmonary inflammation: a randomized controlled trial. <i>Critical Care</i> , 2015 , 19, 226	10.8	28
30	The H ₂ S-generating enzymes cystathionine β -synthase and cystathionine γ -lyase play a role in vascular development during normal lung alveolarization. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 309, L710-24	5.8	38
29	High CO ₂ Leads to Na,K-ATPase Endocytosis via c-Jun Amino-Terminal Kinase-Induced LMO7b Phosphorylation. <i>Molecular and Cellular Biology</i> , 2015 , 35, 3962-73	4.8	22
28	Impact of short- and medium-chain fatty acids on mitochondrial function in severe inflammation. <i>Journal of Parenteral and Enteral Nutrition</i> , 2014 , 38, 587-94	4.2	32
27	Deregulation of the lysyl hydroxylase matrix cross-linking system in experimental and clinical bronchopulmonary dysplasia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L246-59	5.8	37

26	Glucocorticoids recruit Tgfr3 and Smad1 to shift transforming growth factor- β signaling from the Tgfr1/Smad2/3 axis to the Acvr1/Smad1 axis in lung fibroblasts. <i>Journal of Biological Chemistry</i> , 2014 , 289, 3262-75	5.4	37
25	Immunomodulation by fish-oil containing lipid emulsions in murine acute respiratory distress syndrome. <i>Critical Care</i> , 2014 , 18, R85	10.8	18
24	Transglutaminase 2: a new player in bronchopulmonary dysplasia?. <i>European Respiratory Journal</i> , 2014 , 44, 109-21	13.6	18
23	Systemic hydrogen sulfide administration partially restores normal alveolarization in an experimental animal model of bronchopulmonary dysplasia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L684-97	5.8	44
22	Inhaled granulocyte/macrophage colony-stimulating factor as treatment of pneumonia-associated acute respiratory distress syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 609-11	10.2	48
21	Lysyl oxidases play a causal role in vascular remodeling in clinical and experimental pulmonary arterial hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1446-58	9.4	74
20	TGF- β directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E374-83	11.5	87
19	Efficient gene delivery to primary alveolar epithelial cells by nucleofection. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013 , 305, L786-94	5.8	10
18	Novel concepts of acute lung injury and alveolar-capillary barrier dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013 , 305, L665-81	5.8	129
17	Chloride transport-driven alveolar fluid secretion is a major contributor to cardiogenic lung edema. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2308-16	11.5	56
16	Megalin mediates transepithelial albumin clearance from the alveolar space of intact rabbit lungs. <i>Journal of Physiology</i> , 2012 , 590, 5167-81	3.9	21
15	Update in acute lung injury and mechanical ventilation 2011. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 186, 17-23	10.2	9
14	Hypercapnia: a nonpermissive environment for the lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012 , 46, 417-21	5.7	57
13	Ubiquitination and proteolysis in acute lung injury. <i>Chest</i> , 2012 , 141, 763-771	5.3	32
12	Evolutionary conserved role of c-Jun-N-terminal kinase in CO ₂ -induced epithelial dysfunction. <i>PLoS ONE</i> , 2012 , 7, e46696	3.7	35
11	Update in acute lung injury and critical care 2010. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 183, 1147-52	10.2	20
10	Exudate macrophages attenuate lung injury by the release of IL-1 receptor antagonist in gram-negative pneumonia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 183, 1380-90	10.2	78
9	Elevated CO ₂ levels cause mitochondrial dysfunction and impair cell proliferation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 37067-76	5.4	115

8	Carbon monoxide rapidly impairs alveolar fluid clearance by inhibiting epithelial sodium channels. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 41, 639-50	5.7	57
7	The lectin-like domain of tumor necrosis factor-alpha improves alveolar fluid balance in injured isolated rabbit lungs. <i>Critical Care Medicine</i> , 2008 , 36, 1543-50	1.4	55
6	AMP-activated protein kinase regulates CO2-induced alveolar epithelial dysfunction in rats and human cells by promoting Na,K-ATPase endocytosis. <i>Journal of Clinical Investigation</i> , 2008 , 118, 752-62	15.9	129
5	High CO2 levels impair alveolar epithelial function independently of pH. <i>PLoS ONE</i> , 2007 , 2, e1238	3.7	90
4	Alveolar epithelium and Na,K-ATPase in acute lung injury. <i>Intensive Care Medicine</i> , 2007 , 33, 1243-1251	14.5	106
3	Hypoxia-induced alveolar epithelial dysfunction. <i>Journal of Organ Dysfunction</i> , 2006 , 2, 244-249		4
2	Thrombin impairs alveolar fluid clearance by promoting endocytosis of Na+,K+-ATPase. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005 , 33, 343-54	5.7	56
1	Oleic acid inhibits alveolar fluid reabsorption: a role in acute respiratory distress syndrome?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 171, 469-79	10.2	68