

Lars Knudsen

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

3,363
citations

186265

28
h-index

155660

55
g-index

112
all docs

112
docs citations

112
times ranked

4481
citing authors

#	ARTICLE	IF	CITATIONS
1	Alveolar Wall Micromechanics. , 2022, , 232-238.		0
2	B Cells Are Not Involved in the Regulation of Adenoviral TGF- β 1 or Bleomycin-Induced Lung Fibrosis in Mice. Journal of Immunology, 2022, 208, 1259-1271.	0.8	6
3	PACS2-TRPV1 axis is required for ER-mitochondrial tethering during ER stress and lung fibrosis. Cellular and Molecular Life Sciences, 2022, 79, 151.	5.4	9
4	Increased regional ventilation as early imaging marker for future disease progression of interstitial lung disease: a feasibility study. European Radiology, 2022, 32, 6046-6057.	4.5	4
5	Basal-Like Cell-Conditioned Medium Exerts Anti-Fibrotic Effects In Vitro and In Vivo. Frontiers in Bioengineering and Biotechnology, 2022, 10, 844119.	4.1	6
6	Alveolar Basal Cells Differentiate towards Secretory Epithelial- and Aberrant Basaloid-like Cells In Vitro. Cells, 2022, 11, 1820.	4.1	7
7	Improved Alveolar Dynamics and Structure After Alveolar Epithelial Type II Cell Transplantation in Bleomycin Induced Lung Fibrosis. Frontiers in Medicine, 2021, 8, 640020.	2.6	6
8	Quantification of dual-energy CT-derived functional parameters as potential imaging markers for progression of idiopathic pulmonary fibrosis. European Radiology, 2021, 31, 6640-6651.	4.5	12
9	The common ABCA3 ^{E292V} variant disrupts AT2 cell quality control and increases susceptibility to lung injury and aberrant remodeling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L291-L307.	2.9	16
10	Linking Fibrotic Remodeling and Ultrastructural Alterations of Alveolar Epithelial Cells after Deletion of Nedd4-2. International Journal of Molecular Sciences, 2021, 22, 7607.	4.1	5
11	Stereology as the 3D tool to quantitate lung architecture. Histochemistry and Cell Biology, 2021, 155, 163-181.	1.7	12
12	Mechanical ventilation-induced alterations of intracellular surfactant pool and blood-gas barrier in healthy and pre-injured lungs. Histochemistry and Cell Biology, 2021, 155, 183-202.	1.7	6
13	Evaluating registrations of serial sections with distortions of the ground truths. IEEE Access, 2021, , 1-1.	4.2	1
14	In vitro culture of basal-like cells from fibrotic peripheral lung tissue. , 2021, , .		0
15	Late Breaking Abstract - B cells are not involved in the regulation of adenoviral TGF- β 1- or bleomycin-induced lung fibrosis in mice. , 2021, , .		0
16	3D image analysis of the alveolar shape in human lungs. , 2021, , .		1
17	Effective hematopoietic stem cell-based gene therapy in a murine model of hereditary pulmonary alveolar proteinosis. Haematologica, 2020, 105, 1147-1157.	3.5	7
18	Hidden Microatelectases Increase Vulnerability to Ventilation-Induced Lung Injury. Frontiers in Physiology, 2020, 11, 530485.	2.8	12

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19	Three Alveolar Phenotypes Govern Lung Function in Murine Ventilator-Induced Lung Injury. <i>Frontiers in Physiology</i> , 2020, 11, 660.	2.8	20
20	Transcriptomic profiling reveals disease-specific characteristics of epithelial cells in idiopathic pulmonary fibrosis. <i>Respiratory Research</i> , 2020, 21, 165.	3.6	11
21	Air Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein C. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 466-478.	2.9	22
22	Azithromycin has enhanced effects on lung fibroblasts from idiopathic pulmonary fibrosis (IPF) patients compared to controls. <i>Respiratory Research</i> , 2020, 21, 25.	3.6	26
23	Conditional deletion of Nedd4-2 in lung epithelial cells causes progressive pulmonary fibrosis in adult mice. <i>Nature Communications</i> , 2020, 11, 1212.	12.8	52
24	Editorial: Understanding Lung Acinar Micromechanics in Health and Disease: Linking Quantitative Imaging and Organ Scale Mechanics by Computational Modeling. <i>Frontiers in Physiology</i> , 2020, 11, 640398.	2.8	1
25	Combined assessment of regional lung function and morphology using a contrast enhanced Dual-Energy CT protocol: Prospective value of functional imaging biomarkers in longitudinal analysis of patients with Interstitial Lung Disease. , 2020, , .		0
26	Fibrosis-specific stem-like cells in peripheral IPF lung: Characteristics and potential role. , 2020, , .		0
27	SDF-1 is an antifibrotic mediator in vivo. , 2020, , .		0
28	Susceptibility of microtubule-associated protein 1 light chain 3 ^β (MAP1LC3B/LC3B) knockout mice to lung injury and fibrosis. <i>FASEB Journal</i> , 2019, 33, 12392-12408.	0.5	13
29	Surfactant Protein B Deficiency Induced High Surface Tension: Relationship between Alveolar Micromechanics, Alveolar Fluid Properties and Alveolar Epithelial Cell Injury. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4243.	4.1	20
30	Volume-CLEM: a method for correlative light and electron microscopy in three dimensions. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L778-L784.	2.9	12
31	Surfactant dysfunction and alveolar collapse are linked with fibrotic septal wall remodeling in the TGF- β 1-induced mouse model of pulmonary fibrosis. <i>Laboratory Investigation</i> , 2019, 99, 830-852.	3.7	30
32	The FMS-like tyrosine kinase-3 ligand/lung dendritic cell axis contributes to regulation of pulmonary fibrosis. <i>Thorax</i> , 2019, 74, 947-957.	5.6	24
33	Flow cytometric analysis of the leukocyte landscape during bleomycin-induced lung injury and fibrosis in the rat. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L109-L126.	2.9	7
34	Pathomechanistic Role of Autophagy in Lung Fibrosis. , 2019, 73, .		1
35	Susceptibility of LC3B Knockout Mice to Lung Injury and Fibrosis. <i>Pneumologie</i> , 2019, 73, .	0.1	0
36	Defective surfactant biosynthesis and ultrastructural abnormalities of alveolar type 2 cells in pulmonary fibrosis of conditional Nedd4-2 mice. , 2019, , .		0

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37	IPF lung resident mesenchymal stem cells differentiate into epithelial cells displaying a disease-specific transcriptome. , 2019, , .		0
38	Role of the COX2- PGE2 axis in S. pneumoniae- induced pulmonary fibrosis exacerbation in mice. , 2019, , .		0
39	SP-C deficiency causes early alveolar de-recruitment resulting in a combination of air spaces over-distension and spontaneous fibrotic remodeling in aging lungs. , 2019, , .		0
40	Stereological assessment of the bloodâ€air barrier and the surfactant system after mesenchymal stem cell pretreatment in a porcine nonâ€heartâ€beating donor model for lung transplantation. Journal of Anatomy, 2018, 232, 283-295.	1.5	3
41	The micromechanics of lung alveoli: structure and function of surfactant and tissue components. Histochemistry and Cell Biology, 2018, 150, 661-676.	1.7	247
42	Shape and Facet Analyses of Alveolar Airspaces of the Lung. Lecture Notes in Computer Science, 2018, , 49-64.	1.3	1
43	Generation of an alveolar epithelial type II cell line from induced pluripotent stem cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L921-L932.	2.9	40
44	Handsâ€on or no handsâ€on training in ultrasound imaging: A randomized trial to evaluate learning outcomes and speed of recall of topographic anatomy. Anatomical Sciences Education, 2018, 11, 575-591.	3.7	31
45	Recent developments in 3-D reconstruction and stereology to study the pulmonary vasculature. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L173-L183.	2.9	18
46	Alveolar Micromechanics in Bleomycin-induced Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 757-769.	2.9	42
47	iPSC-Derived Macrophages Effectively Treat Pulmonary Alveolar Proteinosis in Csf2rb-Deficient Mice. Stem Cell Reports, 2018, 11, 696-710.	4.8	40
48	Pulmonary surfactant as drug delivery system to target lung epithelium: new approach for the treatment of epithelial injury after bleomycin challenge. , 2018, , .		0
49	Electroporation of Hepatocyte growth factor to the lung induces migration of bone marrow mesenchymal stem cells and reduces lung fibrosis. , 2018, , .		1
50	Aberrant lung remodeling in a mouse model of surfactant dysregulation induced by modulation of the Abca3 gene. Annals of Anatomy, 2017, 210, 135-146.	1.9	20
51	Lung remodeling in aging surfactant protein D deficient mice. Annals of Anatomy, 2017, 211, 158-175.	1.9	9
52	Surfactant replacement therapy reduces acute lung injury and collapse induration-related lung remodeling in the bleomycin model. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L313-L327.	2.9	39
53	Effect of irradiation/bone marrow transplantation on alveolar epithelial type II cells is aggravated in surfactant protein D deficient mice. Histochemistry and Cell Biology, 2017, 147, 49-61.	1.7	5
54	Digital 3D reconstructions using histological serial sections of lung tissue including the alveolar capillary network. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L243-L257.	2.9	28

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55	Tissue remodelling in pulmonary fibrosis. Cell and Tissue Research, 2017, 367, 607-626.	2.9	114
56	A Critical Comment on a Recent Publication Using Parenchymal Airspace Profiling. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 132-132.	2.9	1
57	Using electron microscopes to look into the lung. Histochemistry and Cell Biology, 2016, 146, 695-707.	1.7	32
58	A combined method for correlative 3D imaging of biological samples from macro to nano scale. Scientific Reports, 2016, 6, 35606.	3.3	22
59	Surfactant dysfunction during overexpression of TGF- β 1 precedes profibrotic lung remodeling in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L1260-L1271.	2.9	49
60	Lysophosphatidic Acid Signaling through the Lysophosphatidic Acid-1 Receptor Is Required for Alveolarization. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 105-116.	2.9	24
61	MAP1LC3B overexpression protects against Hermansky-Pudlak syndrome type-1-induced defective autophagy in vitro. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L519-L531.	2.9	25
62	Regional differences in alveolar density in the human lung are related to lung height. Journal of Applied Physiology, 2015, 118, 1429-1434.	2.5	24
63	Regulation of macroautophagy in amiodarone-induced pulmonary fibrosis. Journal of Pathology: Clinical Research, 2015, 1, 252-263.	3.0	27
64	Correlating 3D morphology with molecular pathology: fibrotic remodelling in human lung biopsies. Thorax, 2015, 70, 1197-1198.	5.6	9
65	Alveolar Derecruitment and Collapse Induration as Crucial Mechanisms in Lung Injury and Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 232-243.	2.9	98
66	Linking progression of fibrotic lung remodeling and ultrastructural alterations of alveolar epithelial type II cells in the amiodarone mouse model. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L63-L75.	2.9	29
67	The role of inducible nitric oxide synthase for interstitial remodeling of alveolar septa in surfactant protein D-deficient mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L959-L969.	2.9	16
68	New approach to the treatment of bleomycin-induced lung fibrosis using pulmonary surfactant as pirfenidone carrier into the lung. , 2015, , .		0
69	NOS2 Is Critical to the Development of Emphysema in Sftpd Deficient Mice but Does Not Affect Surfactant Homeostasis. PLoS ONE, 2014, 9, e85722.	2.5	18
70	Impact of a Met(11)Thr single nucleotide polymorphism of surfactant protein D on allergic airway inflammation in a murine asthma model. Experimental Lung Research, 2014, 40, 154-163.	1.2	10
71	Altered Surfactant Homeostasis and Alveolar Epithelial Cell Stress in Amiodarone-Induced Lung Fibrosis. Toxicological Sciences, 2014, 142, 285-297.	3.1	40
72	Effects of exogenous surfactant on the non-beating donor lung graft in experimental lung transplantation – a stereological study. Journal of Anatomy, 2014, 224, 594-602.	1.5	7

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73	Design-based stereology: Planning, volumetry and sampling are crucial steps for a successful study. <i>Annals of Anatomy</i> , 2014, 196, 3-11.	1.9	81
74	Stereological assessment of mouse lung parenchyma via nondestructive, multiscale micro-CT imaging validated by light microscopic histology. <i>Journal of Applied Physiology</i> , 2013, 114, 716-724.	2.5	51
75	Targeted Gene Transfer of Hepatocyte Growth Factor to Alveolar Type II Epithelial Cells Reduces Lung Fibrosis in Rats. <i>Human Gene Therapy</i> , 2013, 24, 105-116.	2.7	36
76	Surfactant protein <scp>D</scp> (<scp>SP</scp>â€<scp>D</scp>) deficiency is attenuated in humanised mice expressing the <scp>M</scp>et(11)<scp>T</scp>hr short nucleotide polymorphism of <scp>SP</scp>â€<scp>D</scp>: implications for surfactant metabolism in the lung. <i>Journal of Anatomy</i> , 2013, 223, 581-592.	1.5	15
77	HGF Expressing Stem Cells in Usual Interstitial Pneumonia Originate from the Bone Marrow and Are Antifibrotic. <i>PLoS ONE</i> , 2013, 8, e65453.	2.5	58
78	Imaging of the mouse lung with scanning laser optical tomography (SLOT). <i>Journal of Applied Physiology</i> , 2012, 113, 975-983.	2.5	34
79	The prognostic impact of follow-up assessments in patients with idiopathic pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2012, 39, 589-596.	6.7	297
80	Optimized murine lung preparation for detailed structural evaluation via micro-computed tomography. <i>Journal of Applied Physiology</i> , 2012, 112, 159-166.	2.5	43
81	NOS2 mediates lung structure and function changes in the SP-D model of emphysema without improving surfactant homeostasis. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 27, S42.	2.7	0
82	Lung preservation in experimental ischemia/reperfusion injury and lung transplantation: A comparison of natural and synthetic surfactants. <i>Journal of Heart and Lung Transplantation</i> , 2012, 31, 85-93.	0.6	20
83	Stereology and Morphometry of Lung Tissue. <i>Methods in Molecular Biology</i> , 2012, 931, 367-390.	0.9	54
84	Cell-specific expression of human HGF by alveolar type II cells induces remodeling of septal wall tissue in the lung: a morphometric study. <i>Journal of Applied Physiology</i> , 2012, 113, 799-807.	2.5	9
85	Microscopy-based quantitative analysis of lung structure: application in diagnosis. <i>Expert Opinion on Medical Diagnostics</i> , 2011, 5, 319-331.	1.6	10
86	Long-term effects of intravenous iloprost in patients with idiopathic pulmonary arterial hypertension deteriorating on non-parenteral therapy. <i>BMC Pulmonary Medicine</i> , 2011, 11, 56.	2.0	16
87	Ultrastructural changes of the intracellular surfactant pool in a rat model of lung transplantation-related events. <i>Respiratory Research</i> , 2011, 12, 79.	3.6	18
88	Ambrisentan Improves Exercise Capacity and Symptoms in Patients with Portopulmonary Hypertension. <i>Zeitschrift Fur Gastroenterologie</i> , 2011, 49, 1258-1262.	0.5	35
89	Single Application of Low-Dose Mycophenolate Mofetil-OX7-Immunoliposomes Ameliorates Experimental Mesangial Proliferative Glomerulonephritis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 337, 411-422.	2.5	32
90	Assessment of air space size characteristics by intercept (chord) measurement: an accurate and efficient stereological approach. <i>Journal of Applied Physiology</i> , 2010, 108, 412-421.	2.5	225

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91	Recent advances in alveolar biology: Evolution and function of alveolar proteins. Respiratory Physiology and Neurobiology, 2010, 173, S43-S54.	1.6	86
92	Exogenous surfactant in ischemia/reperfusion: Effects on endogenous surfactant pools. Journal of Heart and Lung Transplantation, 2010, 29, 327-334.	0.6	23
93	A Rare Cause of Acute Respiratory Failure and Elevated Eosinophils in Broncho-Alveolar Lavage Fluid. Respiration, 2009, 77, 224-228.	2.6	3
94	A Recombinant Fragment of Human Surfactant Protein D Lacking the Short Collagen-Like Stalk Fails to Correct Morphological Alterations in Lungs of SP-D Deficient Mice. Anatomical Record, 2009, 292, 183-189.	1.4	25
95	Truncated recombinant human SP-D attenuates emphysema and type II cell changes in SP-D deficient mice. Respiratory Research, 2007, 8, 70.	3.6	76
96	Donor pretreatment using the aerosolized prostacyclin analogue iloprost optimizes post-ischemic function of non-heart beating donor lungs. Journal of Heart and Lung Transplantation, 2005, 24, 371-378.	0.6	22
97	Experimental Lung Transplantation: Impact of Preservation Solution and Route of Delivery. Journal of Heart and Lung Transplantation, 2005, 24, 1081-1090.	0.6	31
98	Inhalative Pre-Treatment of Donor Lungs Using the Aerosolized Prostacyclin Analog Iloprost Ameliorates Reperfusion Injury. Journal of Heart and Lung Transplantation, 2005, 24, 1673-1679.	0.6	15
99	GM-CSF mediates alveolar epithelial type II cell changes, but not emphysema-like pathology, in SP-D-deficient mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L1333-L1341.	2.9	53
100	The Number of Alveoli in the Human Lung. American Journal of Respiratory and Critical Care Medicine, 2004, 169, 120-124.	5.6	573