Rachel L Zemans

List of Publications by Year
in descending order

58	6,009	159585 30	149698 56
papers	citations	h-index	g-index

60	60	60	9076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acute respiratory distress syndrome. Nature Reviews Disease Primers, 2019, 5, 18.	30.5	1,364
2	The Acute Respiratory Distress Syndrome: Pathogenesis and Treatment. Annual Review of Pathology: Mechanisms of Disease, 2011, 6, 147-163.	22.4	818
3	The pulmonary endothelial glycocalyx regulates neutrophil adhesion and lung injury during experimental sepsis. Nature Medicine, 2012, 18, 1217-1223.	30.7	631
4	What drives neutrophils to the alveoli in ARDS?. Thorax, 2017, 72, 1-3.	5.6	418
5	Transepithelial Migration of Neutrophils. American Journal of Respiratory Cell and Molecular Biology, 2009, 40, 519-535.	2.9	309
6	Role of Chemokines in the Pathogenesis of Acute Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2012, 46, 566-572.	2.9	201
7	Matrix Metalloproteinase 3 Is a Mediator of Pulmonary Fibrosis. American Journal of Pathology, 2011, 179, 1733-1745.	3.8	174
8	Neutrophil transmigration triggers repair of the lung epithelium via Î²-catenin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15990-15995.	7.1	162
9	Neutrophil transfer of miR-223 to lung epithelial cells dampens acute lung injury in mice. Science Translational Medicine, 2017, 9, .	12.4	162
10	Single-cell RNA sequencing identifies TGF-Î² as a key regenerative cue following LPS-induced lung injury. JCI Insight, 2019, 4, .	5.0	111
11	Ineffectual Type 2â€“toâ€“Type 1 Alveolar Epithelial Cell Differentiation in Idiopathic Pulmonary Fibrosis: Persistence of the KRT8^{hi} Transitional State. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1443-1447.	5.6	107
12	Multiple biomarkers predict disease severity, progression and mortality in COPD. Respiratory Research, 2017, 18, 117.	3.6	103
13	Hypoxia-Inducible Factor 1Î± Signaling Promotes Repair of the Alveolar Epithelium after Acute Lung Injury. American Journal of Pathology, 2017, 187, 1772-1786.	3.8	86
14	On, Around, and Through: Neutrophil-Endothelial Interactions in Innate Immunity. Physiology, 2011, 26, 334-347.	3.1	83
15	Update on the Features and Measurements of Experimental Acute Lung Injury in Animals: An Official American Thoracic Society Workshop Report. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, e1-e14.	2.9	82
16	Excessive neutrophil levels in the lung underlie the age-associated increase in influenza mortality. Mucosal Immunology, 2019, 12, 545-554.	6.0	80
17	Mechanisms of ATII-to-ATI Cell Differentiation during Lung Regeneration. International Journal of Molecular Sciences, 2020, 21, 3188.	4.1	80
18	Unbiased Quantitation of Alveolar Type II to Alveolar Type I Cell Transdifferentiation during Repair after Lung Injury in Mice. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 519-526.	2.9	76

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19	Leukocyte Elastase Induces Lung Epithelial Apoptosis via a PAR-1â€“, NF-ÎºBâ€“, and p53-Dependent Pathway. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 742-755.	2.9	63
20	Matrix Metalloproteinases and Protein Tyrosine Kinases. Chest, 2014, 146, 1081-1091.	0.8	62
21	Influenza induces IL-8 and GM-CSF secretion by human alveolar epithelial cells through HGF/c-Met and TGF-Î±/EGFR signaling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L1178-L1188.	2.9	62
22	Role of Î²-catenin-regulated CCN matricellular proteins in epithelial repair after inflammatory lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L415-L427.	2.9	57
23	The Toll-Like Receptor 4 Polymorphism Asp299Gly but Not Thr399Ile Influences TLR4 Signaling and Function. PLoS ONE, 2014, 9, e93550.	2.5	51
24	Diverse Injury Pathways Induce Alveolar Epithelial Cell CCL2/12, Which Promotes Lung Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2020, 62, 622-632.	2.9	43
25	Investigating the Role of Nucleotide-Binding Oligomerization Domainâ€“Like Receptors in Bacterial Lung Infection. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1461-1468.	5.6	42
26	Emerging Roles of Inflammasomes in Acute Pneumonia. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 160-171.	5.6	42
27	Divergent Functions of Toll-like Receptors during Bacterial Lung Infections. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 722-732.	5.6	41
28	Epithelial Heparan Sulfate Contributes to Alveolar Barrier Function and Is Shed during Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 363-374.	2.9	40
29	Persistent, Progressive Pulmonary Fibrosis and Epithelial Remodeling in Mice. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 669-676.	2.9	39
30	Myeloid Differentiation Protein-2â€“Dependent and â€“Independent Neutrophil Accumulation duringEscherichia coliPneumonia. American Journal of Respiratory Cell and Molecular Biology, 2009, 40, 701-709.	2.9	35
31	Cellular senescence: friend or foe to respiratory viral infections?. European Respiratory Journal, 2020, 56, 2002708.	6.7	32
32	Protein Tyrosine Phosphatase Î± Mediates Profibrotic Signaling in Lung Fibroblasts through TGF-Î² Responsiveness. American Journal of Pathology, 2014, 184, 1489-1502.	3.8	31
33	Epithelial membrane protein 2 governs transepithelial migration of neutrophils into the airspace. Journal of Clinical Investigation, 2019, 130, 157-170.	8.2	24
34	Stanniocalcin-1 is induced by hypoxia inducible factor in rat alveolar epithelial cells. Biochemical and Biophysical Research Communications, 2014, 452, 1091-1097.	2.1	23
35	CCR2 mediates increased susceptibility to post-H1N1 bacterial pneumonia by limiting dendritic cell induction of IL-17. Mucosal Immunology, 2019, 12, 518-530.	6.0	23
36	Tec kinases regulate actin assembly and cytokine expression in LPS-stimulated human neutrophils via JNK activation. Cellular Immunology, 2009, 258, 90-97.	3.0	22

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37	Alveolar macrophage secretion of vesicular SOCS3 represents a platform for lung cancer therapeutics. JCI Insight, 2019, 4, .	5.0	21
38	Flow Cytometry Underestimates and Planimetry Overestimates Alveolar Epithelial Type 2 Cell Expansion after Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 390-392.	5.6	18
39	Targeted phage display-based pulmonary vaccination in mice and non-human primates. Med, 2021, 2, 321-342.e8.	4.4	18
40	Fatal COVID-19 and Nonâ€“COVID-19 Acute Respiratory Distress Syndrome Is Associated with Incomplete Alveolar Type 1 Epithelial Cell Differentiation from the Transitional State without Fibrosis. American Journal of Pathology, 2022, 192, 454-467.	3.8	18
41	TGF beta inhibits HGF, FGF7, and FGF10 expression in normal and IPF lung fibroblasts. Physiological Reports, 2018, 6, e13794.	1.7	16
42	Macrophage migration inhibitory factor enhances influenza-associated mortality in mice. JCI Insight, 2019, 4, .	5.0	15
43	Transitional human alveolar type II epithelial cells suppress extracellular matrix and growth factor gene expression in lung fibroblasts. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L283-L294.	2.9	14
44	TGF beta inhibits expression of SP-A, SP-B, SP-C, but not SP-D in human alveolar type II cells. Biochemical and Biophysical Research Communications, 2018, 499, 843-848.	2.1	13
45	A novel method for long term bone marrow culture and genetic modification of murine neutrophils via retroviral transduction. Journal of Immunological Methods, 2009, 340, 102-115.	1.4	12
46	Neutrophil-mediated T-Cell Suppression in Influenza: Novel Finding Raising Additional Questions. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 423-425.	2.9	11
47	Protein tyrosine phosphatase-Î± amplifies transforming growth factor-Î²-dependent profibrotic signaling in lung fibroblasts. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L294-L311.	2.9	11
48	Isolation of Rat and Mouse Alveolar Type II Epithelial Cells. Methods in Molecular Biology, 2018, 1809, 69-82.	0.9	10
49	Stem cell transplantation uncovers TDO-AHR regulation of lung dendritic cells in herpesvirus-induced pathology. JCI Insight, 2021, 6, .	5.0	9
50	New Insights into Clinical and Mechanistic Heterogeneity of the Acute Respiratory Distress Syndrome: Summary of the Aspen Lung Conference 2021. American Journal of Respiratory Cell and Molecular Biology, 2022, 67, 284-308.	2.9	9
51	The ex vivo perfused human lung is resistant to injury by high-dose S. pneumoniae bacteremia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L218-L227.	2.9	8
52	Effects of bone marrow-derived mesenchymal stromal cells on gene expression in human alveolar type II cells exposed to TNF-Î± , IL-1Î² , and IFN-Î³. Physiological Reports, 2018, 6, e13831.	1.7	7
53	Long-term survivors of murine sepsis are predisposed to enhanced LPS-induced lung injury and proinflammatory immune reprogramming. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L451-L465.	2.9	7
54	Efficient CD4Cre-Mediated Conditional KRas Expression in Alveolar Macrophages and Alveolar Epithelial Cells Causes Fatal Hyperproliferative Pneumonitis. Journal of Immunology, 2019, 203, 1208-1217.	0.8	2

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55	Diversity at the border. Nature Immunology, 2020, 21, 112-114.	14.5	1
56	HIF1Î± Dependent CXCR4/SDF1 Signaling Promotes Alveolar Type II Cell Spreading and the Restitution of Epithelial Barrier Integrity After Lung Injury. FASEB Journal, 2015, 29, 863.14.	0.5	1
57	A 46-Year-Old Man With Seizures, Brain Lesions, and Pulmonary Infiltrates. Chest, 2012, 141, 265-269.	0.8	0
58	Polypoloidy in Lung Regeneration: Double Trouble or Dynamic Duo?. American Journal of Respiratory Cell and Molecular Biology, 2022, , .	2.9	0