

Rachel L Zemans

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,009
citations

159585

30
h-index

149698

56
g-index

60
all docs

60
docs citations

60
times ranked

9076
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Update on the Features and Measurements of Experimental Acute Lung Injury in Animals: An Official American Thoracic Society Workshop Report. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, e1-e14. | 2.9 | 82 |
| 2 | Fatal COVID-19 and Non-“COVID-19 Acute Respiratory Distress Syndrome Is Associated with Incomplete Alveolar Type 1 Epithelial Cell Differentiation from the Transitional State without Fibrosis. <i>American Journal of Pathology</i> , 2022, 192, 454-467. | 3.8 | 18 |
| 3 | Polyploidy in Lung Regeneration: Double Trouble or Dynamic Duo?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, , . | 2.9 | 0 |
| 4 | New Insights into Clinical and Mechanistic Heterogeneity of the Acute Respiratory Distress Syndrome: Summary of the Aspen Lung Conference 2021. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 67, 284-308. | 2.9 | 9 |
| 5 | Stem cell transplantation uncovers TDO-AHR regulation of lung dendritic cells in herpesvirus-induced pathology. <i>JCI Insight</i> , 2021, 6, . | 5.0 | 9 |
| 6 | Targeted phage display-based pulmonary vaccination in mice and non-human primates. <i>Med</i> , 2021, 2, 321-342.e8. | 4.4 | 18 |
| 7 | Persistent, Progressive Pulmonary Fibrosis and Epithelial Remodeling in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 64, 669-676. | 2.9 | 39 |
| 8 | Long-term survivors of murine sepsis are predisposed to enhanced LPS-induced lung injury and proinflammatory immune reprogramming. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L451-L465. | 2.9 | 7 |
| 9 | Cellular senescence: friend or foe to respiratory viral infections?. <i>European Respiratory Journal</i> , 2020, 56, 2002708. | 6.7 | 32 |
| 10 | Mechanisms of ATII-to-ATI Cell Differentiation during Lung Regeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3188. | 4.1 | 80 |
| 11 | Protein tyrosine phosphatase- \pm amplifies transforming growth factor- β -dependent profibrotic signaling in lung fibroblasts. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L294-L311. | 2.9 | 11 |
| 12 | The ex vivo perfused human lung is resistant to injury by high-dose <i>S. pneumoniae</i> bacteremia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L218-L227. | 2.9 | 8 |
| 13 | Ineffectual Type 2-“to-“Type 1 Alveolar Epithelial Cell Differentiation in Idiopathic Pulmonary Fibrosis: Persistence of the KRT8 ^{hi} Transitional State. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 1443-1447. | 5.6 | 107 |
| 14 | Diversity at the border. <i>Nature Immunology</i> , 2020, 21, 112-114. | 14.5 | 1 |
| 15 | Diverse Injury Pathways Induce Alveolar Epithelial Cell CCL2/12, Which Promotes Lung Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 622-632. | 2.9 | 43 |
| 16 | Efficient CD4Cre-Mediated Conditional KRas Expression in Alveolar Macrophages and Alveolar Epithelial Cells Causes Fatal Hyperproliferative Pneumonitis. <i>Journal of Immunology</i> , 2019, 203, 1208-1217. | 0.8 | 2 |
| 17 | Transitional human alveolar type II epithelial cells suppress extracellular matrix and growth factor gene expression in lung fibroblasts. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L283-L294. | 2.9 | 14 |
| 18 | Acute respiratory distress syndrome. <i>Nature Reviews Disease Primers</i> , 2019, 5, 18. | 30.5 | 1,364 |

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|----|---|------|-----------|
| 19 | Excessive neutrophil levels in the lung underlie the age-associated increase in influenza mortality. <i>Mucosal Immunology</i> , 2019, 12, 545-554. | 6.0 | 80 |
| 20 | CCR2 mediates increased susceptibility to post-H1N1 bacterial pneumonia by limiting dendritic cell induction of IL-17. <i>Mucosal Immunology</i> , 2019, 12, 518-530. | 6.0 | 23 |
| 21 | Single-cell RNA sequencing identifies TGF- β 2 as a key regenerative cue following LPS-induced lung injury. <i>JCI Insight</i> , 2019, 4, . | 5.0 | 111 |
| 22 | Macrophage migration inhibitory factor enhances influenza-associated mortality in mice. <i>JCI Insight</i> , 2019, 4, . | 5.0 | 15 |
| 23 | Alveolar macrophage secretion of vesicular SOCS3 represents a platform for lung cancer therapeutics. <i>JCI Insight</i> , 2019, 4, . | 5.0 | 21 |
| 24 | Epithelial membrane protein 2 governs transepithelial migration of neutrophils into the airspace. <i>Journal of Clinical Investigation</i> , 2019, 130, 157-170. | 8.2 | 24 |
| 25 | Neutrophil-mediated T-Cell Suppression in Influenza: Novel Finding Raising Additional Questions. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 423-425. | 2.9 | 11 |
| 26 | TGF beta inhibits expression of SP-A, SP-B, SP-C, but not SP-D in human alveolar type II cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 499, 843-848. | 2.1 | 13 |
| 27 | Flow Cytometry Underestimates and Planimetry Overestimates Alveolar Epithelial Type 2 Cell Expansion after Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 390-392. | 5.6 | 18 |
| 28 | Epithelial Heparan Sulfate Contributes to Alveolar Barrier Function and Is Shed during Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 363-374. | 2.9 | 40 |
| 29 | Emerging Roles of Inflammasomes in Acute Pneumonia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 160-171. | 5.6 | 42 |
| 30 | TGF beta inhibits HGF, FGF7, and FGF10 expression in normal and IPF lung fibroblasts. <i>Physiological Reports</i> , 2018, 6, e13794. | 1.7 | 16 |
| 31 | Isolation of Rat and Mouse Alveolar Type II Epithelial Cells. <i>Methods in Molecular Biology</i> , 2018, 1809, 69-82. | 0.9 | 10 |
| 32 | Effects of bone marrow-derived mesenchymal stromal cells on gene expression in human alveolar type II cells exposed to TNF- α , IL-1 β , and IFN- γ . <i>Physiological Reports</i> , 2018, 6, e13831. | 1.7 | 7 |
| 33 | Hypoxia-Inducible Factor 1 α Signaling Promotes Repair of the Alveolar Epithelium after Acute Lung Injury. <i>American Journal of Pathology</i> , 2017, 187, 1772-1786. | 3.8 | 86 |
| 34 | Unbiased Quantitation of Alveolar Type II to Alveolar Type I Cell Transdifferentiation during Repair after Lung Injury in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 519-526. | 2.9 | 76 |
| 35 | What drives neutrophils to the alveoli in ARDS?. <i>Thorax</i> , 2017, 72, 1-3. | 5.6 | 418 |
| 36 | Neutrophil transfer of miR-223 to lung epithelial cells dampens acute lung injury in mice. <i>Science Translational Medicine</i> , 2017, 9, . | 12.4 | 162 |

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|----|---|------|-----------|
| 37 | Multiple biomarkers predict disease severity, progression and mortality in COPD. <i>Respiratory Research</i> , 2017, 18, 117. | 3.6 | 103 |
| 38 | Influenza induces IL-8 and GM-CSF secretion by human alveolar epithelial cells through HGF/c-Met and TGF- β /EGFR signaling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L1178-L1188. | 2.9 | 62 |
| 39 | HIF- β Dependent CXCR4/SDF1 Signaling Promotes Alveolar Type II Cell Spreading and the Restitution of Epithelial Barrier Integrity After Lung Injury. <i>FASEB Journal</i> , 2015, 29, 863.14. | 0.5 | 1 |
| 40 | Stanniocalcin-1 is induced by hypoxia inducible factor in rat alveolar epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 1091-1097. | 2.1 | 23 |
| 41 | Investigating the Role of Nucleotide-Binding Oligomerization Domain-Like Receptors in Bacterial Lung Infection. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 1461-1468. | 5.6 | 42 |
| 42 | Divergent Functions of Toll-like Receptors during Bacterial Lung Infections. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 722-732. | 5.6 | 41 |
| 43 | Protein Tyrosine Phosphatase β Mediates Profibrotic Signaling in Lung Fibroblasts through TGF- β Responsiveness. <i>American Journal of Pathology</i> , 2014, 184, 1489-1502. | 3.8 | 31 |
| 44 | Matrix Metalloproteinases and Protein Tyrosine Kinases. <i>Chest</i> , 2014, 146, 1081-1091. | 0.8 | 62 |
| 45 | The Toll-Like Receptor 4 Polymorphism Asp299Gly but Not Thr399Ile Influences TLR4 Signaling and Function. <i>PLoS ONE</i> , 2014, 9, e93550. | 2.5 | 51 |
| 46 | Role of β -catenin-regulated CCN matricellular proteins in epithelial repair after inflammatory lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L415-L427. | 2.9 | 57 |
| 47 | A 46-Year-Old Man With Seizures, Brain Lesions, and Pulmonary Infiltrates. <i>Chest</i> , 2012, 141, 265-269. | 0.8 | 0 |
| 48 | Role of Chemokines in the Pathogenesis of Acute Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 566-572. | 2.9 | 201 |
| 49 | The pulmonary endothelial glycocalyx regulates neutrophil adhesion and lung injury during experimental sepsis. <i>Nature Medicine</i> , 2012, 18, 1217-1223. | 30.7 | 631 |
| 50 | The Acute Respiratory Distress Syndrome: Pathogenesis and Treatment. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2011, 6, 147-163. | 22.4 | 818 |
| 51 | Matrix Metalloproteinase 3 Is a Mediator of Pulmonary Fibrosis. <i>American Journal of Pathology</i> , 2011, 179, 1733-1745. | 3.8 | 174 |
| 52 | Neutrophil transmigration triggers repair of the lung epithelium via β -catenin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15990-15995. | 7.1 | 162 |
| 53 | On, Around, and Through: Neutrophil-Endothelial Interactions in Innate Immunity. <i>Physiology</i> , 2011, 26, 334-347. | 3.1 | 83 |
| 54 | Myeloid Differentiation Protein-2-Dependent and -Independent Neutrophil Accumulation during <i>Escherichia coli</i> Pneumonia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 40, 701-709. | 2.9 | 35 |

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|----|---|-----|-----------|
| 55 | Leukocyte Elastase Induces Lung Epithelial Apoptosis via a PAR-1, NF- κ B, and p53-Dependent Pathway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 742-755. | 2.9 | 63 |
| 56 | Transepithelial Migration of Neutrophils. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 40, 519-535. | 2.9 | 309 |
| 57 | A novel method for long term bone marrow culture and genetic modification of murine neutrophils via retroviral transduction. <i>Journal of Immunological Methods</i> , 2009, 340, 102-115. | 1.4 | 12 |
| 58 | Tec kinases regulate actin assembly and cytokine expression in LPS-stimulated human neutrophils via JNK activation. <i>Cellular Immunology</i> , 2009, 258, 90-97. | 3.0 | 22 |