# Elena Lopez-Rodriguez

List of Publications by Year
in descending order



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|---|---|---|---|
| 47 papers | 1,132 citations | 394421 19 h-index | 395702 33 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 1422 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structure-function relationships in pulmonary surfactant membranes: From biophysics to therapy. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1568-1585. | 2.6 | 204 |
| 2 | 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 |
| 3 | Aging exacerbates acute lung injury-induced changes of the air-blood barrier, lung function, and inflammation in the mouse. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L1-L12. | 2.9 | 62 |
| 4 | Human Pulmonary Surfactant Protein SP-A1 Provides Maximal Efficiency of Lung Interfacial Films. Biophysical Journal, 2016, 111, 524-536. | 0.5 | 58 |
| 5 | Clinical and biological role of secretory phospholipase A2 in acute respiratory distress syndrome infants. Critical Care, 2013, 17, R163. | 5.8 | 51 |
| 6 | Lung surfactant metabolism: early in life, early in disease and target in cell therapy. Cell and Tissue Research, 2017, 367, 721-735. | 2.9 | 50 |
| 7 | Surfactant dysfunction during overexpression of TGF-Î²1 precedes profibrotic lung remodeling in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L1260-L1271. | 2.9 | 49 |
| 8 | Meconium Impairs Pulmonary Surfactant by a Combined Action of Cholesterol and Bile Acids. Biophysical Journal, 2011, 100, 646-655. | 0.5 | 48 |
| 9 | Alveolar Micromechanics in Bleomycin-induced Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 757-769. | 2.9 | 42 |
| 10 | iPSC-Derived Macrophages Effectively Treat Pulmonary Alveolar Proteinosis in Csf2rb-Deficient Mice. Stem Cell Reports, 2018, 11, 696-710. | 4.8 | 40 |
| 11 | 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 |
| 12 | On Top of the Alveolar Epithelium: Surfactant and the Glycocalyx. International Journal of Molecular Sciences, 2020, 21, 3075. | 4.1 | 32 |
| 13 | Exposure to Polymers Reverses Inhibition of Pulmonary Surfactant by Serum, Meconium, or Cholesterol in the Captive Bubble Surfactometer. Biophysical Journal, 2012, 103, 1451-1459. | 0.5 | 31 |
| 14 | Surfactant dysfunction and alveolar collapse are linked with fibrotic septal wall remodeling in the TGF-Î²1-induced mouse model of pulmonary fibrosis. Laboratory Investigation, 2019, 99, 830-852. | 3.7 | 30 |
| 15 | 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 |
| 16 | The FMS-like tyrosine kinase-3 ligand/lung dendritic cell axis contributes to regulation of pulmonary fibrosis. Thorax, 2019, 74, 947-957. | 5.6 | 24 |
| 17 | Alveolar Dynamics and Beyond â€“ The Importance of Surfactant Protein C and Cholesterol in Lung Homeostasis and Fibrosis. Frontiers in Physiology, 2020, 11, 386. | 2.8 | 23 |
| 18 | Interfacial behavior and structural properties of a clinical lung surfactant from porcine source. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2756-2766. | 2.6 | 22 |

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|---|---|---|---|
| 19 | Air Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein C. American Journal of Respiratory Cell and Molecular Biology, 2020, 62, 466-478. | 2.9 | 22 |
| 20 | Transient Exposure of Pulmonary Surfactant to Hyaluronan Promotes Structural and Compositional Transformations into a Highly Active State. Journal of Biological Chemistry, 2013, 288, 29872-29881. | 3.4 | 20 |
| 21 | Surfactant Protein B Deficiency Induced High Surface Tension: Relationship between Alveolar Micromechanics, Alveolar Fluid Properties and Alveolar Epithelial Cell Injury. International Journal of Molecular Sciences, 2019, 20, 4243. | 4.1 | 20 |
| 22 | In Vitro Functional and Structural Characterization of A Synthetic Clinical Pulmonary Surfactant with Enhanced Resistance to Inhibition. Scientific Reports, 2020, 10, 1385. | 3.3 | 19 |
| 23 | Toll-like receptor 4 activation attenuates profibrotic response in control lung fibroblasts but not in fibroblasts from patients with IPF. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L42-L55. | 2.9 | 13 |
| 24 | Inhibition and counterinhibition of Surfacen, a clinical lung surfactant of natural origin. PLoS ONE, 2018, 13, e0204050. | 2.5 | 12 |
| 25 | Hidden Microatelectases Increase Vulnerability to Ventilation-Induced Lung Injury. Frontiers in Physiology, 2020, 11, 530485. | 2.8 | 12 |
| 26 | Voluntary Activity Modulates Sugar-Induced Elastic Fiber Remodeling in the Alveolar Region of the Mouse Lung. International Journal of Molecular Sciences, 2019, 20, 2438. | 4.1 | 9 |
| 27 | An immune cell spray (ICS) formulation allows for the delivery of functional monocyte/macrophages. Scientific Reports, 2018, 8, 16281. | 3.3 | 7 |
| 28 | Flow cytometric analysis of the leukocyte landscape during bleomycin-induced lung injury and fibrosis in the rat. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L109-L126. | 2.9 | 7 |
| 29 | Effective hematopoietic stem cell-based gene therapy in a murine model of hereditary pulmonary alveolar proteinosis. Haematologica, 2020, 105, 1147-1157. | 3.5 | 7 |
| 30 | Metabolic Glycoengineering Enables the Ultrastructural Visualization of Sialic Acids in the Glycocalyx of the Alveolar Epithelial Cell Line hAELVi. Frontiers in Bioengineering and Biotechnology, 2020, 8, 614357. | 4.1 | 6 |
| 31 | 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 |
| 32 | Rescue from Pseudomonas aeruginosa Airway Infection via Stem Cell Transplantation. Molecular Therapy, 2021, 29, 1324-1334. | 8.2 | 6 |
| 33 | Mechanical ventilation-induced alterations of intracellular surfactant pool and bloodâ€"gas barrier in healthy and pre-injured lungs. Histochemistry and Cell Biology, 2021, 155, 183-202. | 1.7 | 6 |
| 34 | Spermidine supplementation and voluntary activity differentially affect obesity-related structural changes in the mouse lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L312-L324. | 2.9 | 5 |
| 35 | Protein and lipid fingerprinting of native-like membrane complexes by combining TLC and protein electrophoresis. Journal of Lipid Research, 2019, 60, 430-435. | 4.2 | 4 |
| 36 | The ultrastructural heterogeneity of lung surfactant revealed by serial section electron tomography: insights into the 3-D architecture of human tubular myelin. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L873-L881. | 2.9 | 4 |

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| 37 | Pulmonary glycogen deficiency as a new potential cause of respiratory distress syndrome. Human Molecular Genetics, 2021, 29, 3554-3565. | 2.9 | 3 |
| 38 | Inhibition of Pulmonary Surfactant by Meconium: Biophysical Properties and Molecular Mechanism. Biophysical Journal, 2010, 98, 90a. | 0.5 | 1 |
| 39 | Fluorescence and Infrared Spectroscopy for the Study of Structure and Lipid Packing/Hydration in Pulmonary Surfactant Membranes and Lamellar Body -Like Particles. Biophysical Journal, 2012, 102, 647a-648a. | 0.5 | 1 |
| 40 | Interfacial Behavior of Murine Pulmonary Surfactant Expressing Different Human Surfactant Protein SP-A Variants. Biophysical Journal, 2013, 104, 63a. | 0.5 | 1 |
| 41 | Reply to: Comments on â€œAir Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein Câ€• American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 399-402. | 2.9 | 1 |
| 42 | Deterioration of Pulmonary Surfactant by Volatile Anesthetics. Biophysical Journal, 2012, 102, 496a. | 0.5 | 0 |
| 43 | Membrane-Perturbing Activities of KL4-Related Surfactant Peptides. Biophysical Journal, 2013, 104, 94a-95a. | 0.5 | 0 |
| 44 | 522. Murine iPSC-Derived Macrophages Improve the In Vivo Disease Phenotype of Pulmonary Alveolar Proteinosis Due to Csf2rb Deficiency. Molecular Therapy, 2016, 24, S208. | 8.2 | 0 |
| 45 | Human SP-A1 Enhances Interfacial Properties of Lung Surfactant and Restores a Proper Behavior in the Presence of Inhibitory Agents. Biophysical Journal, 2017, 112, 228a. | 0.5 | 0 |
| 46 | New approach to the treatment of bleomycin-induced lung fibrosis using pulmonary surfactant as pirfenidone carrier into the lung. , 2015, , . |  | 0 |
| 47 | Voluntary Activity Modulates Sugar-Induced Mechanical and Structural Changes of the Lung. Pneumologie, 2019, 73, . | 0.1 | 0 |