

Resource Summary Report

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LungMap

RRID:SCR_016347

Type: Tool

Proper Citation

LungMap (RRID:SCR_016347)

Resource Information

URL: <https://www.lungmap.net/>

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Description: Portal for lung histochemistry data. For structural and molecular data regarding normal perinatal and postnatal lung development in the mouse and human. For public sharing of data sets, establishing a repository of young human lung tissues obtained through organ donor organizations, and developing a comprehensive lung ontology .Contains lung images and transcriptomic, proteomic, and lipidomic human and mouse data and provides scientific information to stimulate interest in research careers. Used to serve as a research resource and public education tool.

Abbreviations: LungMAP

Synonyms: The Molecular Atlas of Lung Development Program

Resource Type: service resource, data or information resource, data repository, storage service resource, portal

Defining Citation: [PMID:28798251](#)

Keywords: lung, data, histochemistry, structural, molecular, normal, perinatal, postnatal, development, mouse, human, repository, images, transcriptomic, proteomic, lipidomic

Funding: the National Heart ;
Lung ;
and Blood Institute of the National Institutes of Health U01HL122638

Availability: Free, Freely available

Resource Name: LungMap

Resource ID: SCR_016347

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260729T044411+0000

Ratings and Alerts

No rating or validation information has been found for LungMap.

No alerts have been found for LungMap.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Spurgin S, et al. (2025) Pulsatile flow dynamics determine pulmonary arterial architecture. bioRxiv : the preprint server for biology.

Berdnikovs S, et al. (2025) Single-cell profiling demonstrates the combined effect of wheeze phenotype and infant viral infection on airway epithelial development. Science advances, 11(21), eadr9995.

Mellors PW, et al. (2025) Shared roles of immune and stromal cells in the pathogenesis of human bronchiolitis obliterans syndrome. JCI insight, 10(10).

Shirazi SP, et al. (2025) Bronchopulmonary dysplasia with pulmonary hypertension associates with semaphorin signaling loss and functionally decreased FOXF1 expression. Nature communications, 16(1), 5004.

Osborn RM, et al. (2025) Single-cell analysis of lung epithelial cells reveals age and cell population-specific responses to SARS-CoV-2 infection in ciliated cells. Clinical and experimental immunology, 219(1).

Leir SH, et al. (2025) Cellular imbalance in proximal and distal lung of CFTR-/- sheep in utero and at birth. Molecular medicine (Cambridge, Mass.), 31(1), 231.

Han Y, et al. (2025) A Human Immuno-Lung Organoid Model to Study Macrophage-Mediated Lung Cell Senescence Upon SARS-CoV-2 Infection. Advanced science (Weinheim, Baden-Wurtemberg, Germany), 12(36), e03932.

Shinjyo N, et al. (2025) Aldehyde metabolism governs resilience of mucociliary clearance to air pollution exposure. The Journal of clinical investigation, 135(14).

Ye D, et al. (2025) Hedgehog-interacting protein orchestrates alveologenesis and protects against bronchopulmonary dysplasia and emphysema. Science advances, 11(19),

eadu2958.

Elitz A, et al. (2025) Early cell autonomous and niche-mediated alveolar epithelial response to influenza infection in primary lung organoids. *bioRxiv : the preprint server for biology*.

Lin B, et al. (2024) Lung Epithelial Regnase-1 Dampens Local Immune Response but Does Not Worsen Susceptibility to *Klebsiella pneumoniae*. *ImmunoHorizons*, 8(1), 89.

Yombo DJK, et al. (2024) SEMA3B inhibits TGF β -induced extracellular matrix protein production and its reduced levels are associated with a decline in lung function in IPF. *American journal of physiology. Cell physiology*, 326(6), C1659.

Liu X, et al. (2024) Transcriptomics Analysis Identifies the Decline in the Alveolar Type II Stem Cell Niche in Aged Human Lungs. *American journal of respiratory cell and molecular biology*, 71(2), 229.

Schmitt P, et al. (2024) TL1A is an epithelial alarmin that cooperates with IL-33 for initiation of allergic airway inflammation. *The Journal of experimental medicine*, 221(6).

Arvind M, et al. (2024) Plausible role of INPP4A dysregulation in idiopathic pulmonary fibrosis. *Physiological reports*, 12(9), e16032.

Benjamin KJ, et al. (2024) Cell type-specific expression of angiotensin receptors in the human lung with implications for health, aging, and chronic disease. *bioRxiv : the preprint server for biology*.

Yang S, et al. (2024) Mapping a New Course to Understand Lung Biology Mechanisms: LungMAP.net. *American journal of respiratory cell and molecular biology*, 70(2), 91.

Goodwin AT, et al. (2023) Stretch regulates alveologenesis and homeostasis via mesenchymal G α q/11-mediated TGF β 2 activation. *Development (Cambridge, England)*, 150(9).

Grimm SL, et al. (2023) Loss of microRNA-30a and sex-specific effects on the neonatal hyperoxic lung injury. *Biology of sex differences*, 14(1), 50.

He H, et al. (2023) PRDM3/16 Regulate Chromatin Accessibility Required for NKX2-1 Mediated Alveolar Epithelial Differentiation and Function. *bioRxiv : the preprint server for biology*.