

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

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: 20260905T132807+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 68 mentions in open access literature.

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

Turner DL, et al. (2026) Macrophages orchestrate antiviral defense and epithelial repair in a human iPSC-derived alveolar air-liquid interface. JCI insight, 11(9).

Spurgin SB, et al. (2026) Pulsatile flow dynamics maintain pulmonary artery architecture. JCI insight, 11(9).

Cerezo-Wallis D, et al. (2026) Architecture of the neutrophil compartment. Nature, 649(8098), 1003.

Wang L, et al. (2026) Macrophage-Derived Ferritin Exacerbates Silica-Induced Pulmonary Fibrosis via PIK3R2-Mediated Fibroblast Differentiation. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(17), e19191.

Zhou G, et al. (2026) Rebalancing the Neurovascular Axis: NTRK2 Isoform Equilibrium as a Determinant of Pulmonary Endothelial Regeneration. Cell proliferation, 59(5), e70200.

Huang Z, et al. (2026) Tfc2l1 participates in paternal vitamin D deficiency-induced fetal lung maldevelopment in mice. Genes & nutrition, 21(1).

Skvir NJ, et al. (2026) High resolution spatial profiling of the hematopoietic landscape of the murine lung. iScience, 29(7), 116595.

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.

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.

Mestan KK, et al. (2025) Bronchopulmonary dysplasia: signatures of monocyte-macrophage reactivity and tolerance define novel placenta-lung endotypes. *Pediatric research*, 98(6), 2352.

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

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*.

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.

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).

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

Tannenberg P, et al. (2025) Exploring the Impact of Platelet-Derived Growth Factor D in Pulmonary Hypertension Development. *Pulmonary circulation*, 15(4), e70216.

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-Wurttemberg, Germany)*, 12(36), e03932.

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.