Stanford

Nicholas Hedemann Juul

Instructor, Medicine - Pulmonary, Allergy & Critical Care Medicine

CLINICAL OFFICE (PRIMARY)

- **Chest Clinic**

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Bio

CLINICAL FOCUS

- Pulmonary Disease

ACADEMIC APPOINTMENTS

- Instructor, Medicine - Pulmonary, Allergy & Critical Care Medicine

PROFESSIONAL EDUCATION

- Residency: LAC USC Medical Center Internal Medicine Residency (2015) CA
- Fellowship: Stanford University Pulmonary and Critical Care Fellowship (2018) CA
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2018)
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2018)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2015)
- Medical Education: Columbia University College of Physicians and Surgeons (2012) NY

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Molecular and cellular biology of the distal lung

High altitude medicine

Publications

PUBLICATIONS

- **Enhanced cfDNA methylation profiling by detection and correction of jagged ends.** *Nature methods*
  Wang, R., Hamilton, E. G., Almanza, D., Bonilla, R., Sugio, T., Hui, A., Tian, F., Phillips, N. A., Liu, C. L., Yoo, C. H., Alig, S., Rossi, C., Juul, et al
  2026
- **Whole genome methylation sequencingstrongly suggests a novel, non-stem cell origin for some lung adenocarcinomas**
  Juul, N., Almanza, D., Diehn, M., Desai, T.
  AMER ASSOC CANCER RESEARCH.2026

- **DNA methylation differentiates early-stage lung adenocarcinoma cells-of-origin with distinct smoking history and grade**
  Li, X., Almanza, D., Hoang, P., Tranh, T., Juul, N. H., Diehn, M., Desai, T. J., Landi, M.
  AMER ASSOC CANCER RESEARCH.2026

- **Evidence for lung barrier regeneration by differentiation prior to binucleated and stem cell division.** *The Journal of cell biology*
  Guild, J., Juul, N. H., Andalon, A., Taenaka, H., Coffey, R. J., Matthay, M. A., Desai, T. J.
  2023; 222 (12)

- **KRAS(G12D) drives lepidic adenocarcinoma through stem-cell reprogramming.** *Nature*
  Juul, N. H., Yoon, J. K., Martinez, M. C., Rishi, N., Kazadaeva, Y. I., Morri, M., Neff, N. F., Trope, W. L., Shrager, J. B., Sinha, R., Desai, T. J.
  2023

- **WNT7A deficit is associated with dysfunctional angiogenesis in pulmonary arterial hypertension.** *The European respiratory journal*
  Chakraborty, A., Nathan, A., Orcholski, M., Agarwal, S., Shamskhou, E. A., Auer, N., Mitra, A., Guardado, E. S., Swaminathan, G., Condon, D. F., Yu, J., McCarra, M., Juul, et al
  2023

- **Predictive Capacity of Pulmonary Function Tests for Acute Mountain Sickness.** *High altitude medicine & biology*
  Small, E. n., Juul, N. n., Pomeranz, D. n., Burns, P. n., Phillips, C. n., Cheffers, M. n., Lipman, G. S.
  2021

- **Niche Cells and Signals that Regulate Lung Alveolar Stem Cells In Vivo.** *Cold Spring Harbor perspectives in biology*
  Juul, N. H., Stockman, C. A., Desai, T. J.
  2020

- **Interstitial Pulmonary Edema Assessed by Lung Ultrasound on Ascent to High Altitude and Slight Association with Acute Mountain Sickness: A Prospective Observational Study** *HIGH ALTITUDE MEDICINE & BIOLOGY*
  Alsup, C., Lipman, G. S., Pomeranz, D., Huang, R., Burns, P., Juul, N., Phillips, C., Jurkiewicz, C., Cheffers, M., Evans, C., Saraswathula, A., Baumeister, P., Lai, et al
  2019

- **Interstitial Pulmonary Edema Assessed by Lung Ultrasound on Ascent to High Altitude and Slight Association with Acute Mountain Sickness: A Prospective Observational Study.** *High altitude medicine & biology*
  Alsup, C. n., Lipman, G. S., Pomeranz, D. n., Huang, R. W., Burns, P. n., Juul, N. n., Phillips, C. n., Jurkiewicz, C. n., Cheffers, M. n., Evans, C. n., Saraswathula, A. n., Baumeister, P. n., Lai, et al
  2019

- **Combinations of differentiation markers distinguish subpopulations of alveolar epithelial cells in adult lung.** *American journal of physiology. Lung cellular and molecular physiology*
  Liebler, J. M., Marconett, C. N., Juul, N., Wang, H., Liu, Y., Flodby, P., Laird-Offringa, I. A., Minoo, P., Zhou, B.
  2016; 310 (2): L114-20