Stanford



David N. Cornfield

Anne T. and Robert M. Bass Professor of Pediatric Pulmonary Medicine

Pediatrics - Pulmonary Medicine

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Pulmonary and Cystic Fibrosis Clinic**
  770 Welch Rd Ste 380
  MC 5882
  Palo Alto, CA 94304
  Tel (650) 724-4788 **Fax** (650) 497-8791

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**
  Meena Kakani - Administrative Manager
  Email mkakani@stanford.edu

Bio

BIO

A physician scientist, Dr. Cornfield is actively engaged in clinical medicine, teaching and research. In clinical arena, Dr. Cornfield is a Pediatrician with an active practice in both Pediatric Pulmonary Medicine and Pediatric Critical Care Medicine. In the research arena, Dr. Cornfield's lab addresses several large thematic issues. The areas of concentration include: (i) regulation of pulmonary vascular tone; (ii) oxygen sensing in the lung; (iii) biological determinants of preterm labor focusing on myometrial smooth muscle cells; (iv) developmental regulation of barrier function in the lung; and (v) the role of hypoxia-inducible factor-1 in lung development. In addition, there is an active translational research component.

CLINICAL FOCUS

- Pediatric Pulmonary Med
- Pediatric Critical Care Medicine
- Pediatric Pulmonology

ACADEMIC APPOINTMENTS

- Professor, Pediatrics - Pulmonary Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Medical Director - Respiratory Therapy, Lucile Packard Children's Hospital, (2011- present)
- Faculty Practice Organization, Stanford University, (2007- present)
- Fellowship Director - Pediatric Critical Care Medicine, Stanford, (2007-2014)

- Medical Director - Pediatric Intensive Care Unit, Lucile Packard Children's Hospital, (2007-2012)
- Director - Center for Excellence in Pulmonary Biology, Stanford University, (2006- present)
- Division Director - Pulmonary Medicine, Stanford University, (2006- present)
- Service Chief - Pediatric Critical Care Medicine, Lucile Packard Children's Hospital, (2006-2014)
- Associate Dean for Research, University of Minnesota Medical School, (2004-2005)
- Program Director - Pediatric Sedation and Monitored Anesthesia, Fairview University Medical Center, (2004-2005)
- Interim Chair, Department of Pediatrics University of Minnesota, (2003-2004)
- Program Director - Pediatric Emergency Medicine, University of Minnesota Physicians, Fairview-Ridges Hospital, (2001-2004)
- Executive Board Member, University of Minnesota Physicians, (2000-2003)
- President - Pediatric Clinical Service Unit, University of Minnesota Physicians, (1999-2000)
- Board Member - Pediatric Clinical Service Unit, University of Minnesota Physicians, (1998-2005)
- Medical Director - Pediatric Intensive Care Unit, Fairview University Medical Center, University of Minnesota Medical School, (1998-2005)
- Division Head - Pediatric Pulmonary and Critical Care Medicine, University of Minnesota Medical School, (1997-2005)
- Medical Director - Pediatric Flexible Bronchoscopy Service, Fairview University Medical Center, University of Minnesota Medical School, (1997-2005)
- Medical Director - Pediatric Lung Transplantation Program, Fairview University Medical Center, University of Minnesota Medical School, (1997-2005)
- Medical Director - Transitional Care Unit, Fairview University Medical Center, University of Minnesota Medical School, (1997-2005)
- Interim Division Head - Pediatric Pulmonary and Critical Care Medicine, University of Minnesota Medical School, (1996-1997)
- Fellowship Director - Pediatric Critical Care Medicine, University of Minnesota Medical School, (1994-2005)

HONORS AND AWARDS

- Editorial Board Member, Pediatrics (2010-present)
- Faculty Teaching Honor Roll, Stanford Department of Pediatrics (2010-present)
- Pediatric Academic Societies-Steering Committee, PAS (2010-present)
- Study Section Member-RIBT, NIH (2009-present)
- President, Society for Pediatric Research (2009-2010)
- Editorial Board Member, American Journal of Physiology-Lung, Cell and Mol Physiology (2008-present)
- Pediatric Clerkship Faculty Honor Roll for Teaching (recognized annually), Stanford University Medical School (2008-present)
- Top Pediatrician (recognized annually), San Francisco Magazine (2008-present)
- Best Doctors in America (recognized annually), Best Doctors in America (2007-present)
- Best Pediatrician (recognized annually), San Jose Magazine (2007-present)
- Vice-President Elect, Society for Pediatric Research (2007)
- Anne T. and Robert M. Bass Professor of Pulmonary Medicine, Stanford University (2006-present)
- Distinguished Alumni Lectureship, Cotton Club, University of Colorado Medical School, Division of Pediatric Pulmonary Medicine, Breckenridge, CO (2003)
- America's Top Pediatricians (recognized annually), Consumer's Research Council of America, Washington, D.C. (2002-present)
- Award for Excellence (Awarded to a single Medical School faculty member annually), University of Minnesota Medical School (2001)
- Established Investigator, American Heart Association (2000-2004)
- Outstanding Faculty Educator Award - Department of Pediatrics, University of Minnesota Medical School (2000-2001)
- Established Investigator, American Heart Association (2000)
- Master Teacher of the Year Award, University of Minnesota Medical School, University of Minnesota (2000)

- Outstanding Clinical-Scholar Award, Fairview University Medical Center and the University of Minnesota Medical School (2000)
- Outstanding Faculty Educator Award, University of Minnesota Medical School, Department of Pediatrics (1999-2000)
- Outstanding Faculty Educator Award, University of Minnesota Medical School, Department of Pediatrics (1998-1999)
- Member, Society for Pediatric Research (1996)
- Pediatric Scholar Award, National Institutes of Health Child Health Research Center (1996)
- Outstanding Faculty Educator Award, University of Minnesota Pediatric Residency Program (1995)
- Richard D. Rowe Award: Outstanding Young Investigator Award in Perinatal Cardiology, Society for Pediatric Research (1995)
- Grant-in-Aid Recipient, Minnesota Heart Association (1994-1996)
- University Children's Foundation Research Scholar Award, University of Minnesota Department of Pediatrics (1994-1995)
- Faculty Teacher of the Year Award, University of Minnesota Pediatric Residency Program (1994)
- Clinician-Scientist Award, American Heart Associatin (1993-1998)
- National Research Service Award, National Institutes of Health (1990-1993)
- Clark Seely Award for Excellence in Primary Care - Department of Pediatrics, University of Missouri-Kansas City (1989)
- Daniel C. Darrow Award as the Most Outstanding House Officer, Children’s Mercy Hospital (1989)
- Pediatric Chief Resident, Children’s Mercy Hospital (1989)
- Clark Seely Award for Excellence in Primary Care - Department of Pediatrics, University of Missouri-Kansas City (1988)
- Richardson Resident Research Award, Renal Perfusion in ECMO (1988)
- Independent Study Program, University of Wisconsin School of Medicine (1983-1984)
- Human Subjects Committee, University of Wisconsin School of Medicine (1982-1985)
- Graduate with Distinction in Major (Philosophy), Highest Honors, University of Wisconsin-Madison (1981)
- BioCore Honors Course Director, Biology, Society, and Human Values (1980-1981)
- Outstanding Senior Honors Thesis - Department of Philosophy, College of Letters and Sciences (1980-1981)
- Senior Senator, University Wisconsin Student Senate (1980-1981)
- Outstanding Junior Honors Thesis, Center for Biomedical Ethics (1979-1980)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Richard D. Rowe Selection Committee, Society for Pediatric Research (2000 - 2001)
- Special Task Force to Develop Position Paper for Inhaled Nitric Oxide, American Thoracic Society (2001 - 2003)
- Council Member, Society for Pediatric Research (2002 - 2005)
- Program Committee, Grover Conference on the Pulmonary Circulation, American Thoracic Society and American Heart Association (2002 - 2005)
- Chairperson - Richard D. Rowe Selection Committee, Society for Pediatric Research (2004 - 2004)
- Chair, Young Investigator Award Committee, Society for Pediatric Research (2004 - 2007)
- Vice-President with ascension to Presidency, Society for Pediatric Research (2007 - 2007)
- Program Committee, Pediatric Academic Societies Annual Meeting (2008 - 2012)
- Steering Committee, Federation of Pediatric Organizations (2009 - 2010)
- Committee on Pediatric Education, American Academy of Pediatrics (2009 - 2013)
- Executive Committee, Pediatric Academic Societies (2010 - 2014)
- Advocacy Committee, Pediatric Academic Societies (2011 - present)
- Pediatrics 2020, Federation of Pediatric Organizations (2012 - present)
- Chair-Nominating Committee, Pulmonary Circulation, American Thoracic Society (2015 - present)

- Member, Executive Committee, Pulmonary Circulation, American Thoracic Society (2015 - present)
- Member, External Review Committee, Gale and Ira Drukier Prize in Children's Health Research, Cornell University (2016 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Pulmonology, American Board of Pediatrics (1994)
- Fellowship: Children's Hospital Colorado (1993) CO
- Residency: Children's Mercy Hospital Pediatric Residency Program (1989) MO
- Internship: Children's Mercy Hospital Pediatric Residency Program (1987) MO
- Medical Education: University of Wisconsin Madison Office of the Registrar (1986) WI
- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (1996)
- Board Certification, American Board of Pediatrics , Pediatric Critical Care Medicine (1996)

LINKS

- Cornfield Lab: http://med.stanford.edu/cornfieldlab-2.html
- Pediatric Pulmary, Asthma and Sleep Medicine: http://med.stanford.edu/pedpulmonary/Homepage.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Currently, the Laboratory is engaged in 4 distinct, but related areas of research.

Molecular regulation of pulmonary vascular tone:

Our lab addresses the regulation of pulmonary vascular tone. We investigate the signal transduction pathway of molecules that play an important role in determining pulmonary vascular tone. We identified a novel role for HIF-1α in the regulation of tone in lung via effects on myosin light chain phosphorylation in the pulmonary artery smooth muscle cells and in regulating expression of the β1 subunit of the calcium sensitive potassium channel. We outlined a novel role for endothelin derived from smooth muscle cells in modulating the pulmonary vascular response to hypoxia. Most recently, we have undertaken a line of research using human tissue.

Preterm Labor:

We embarked on an exploratory line of research in preterm labor wherein our expertise in vascular biology,smooth muscle and ion channel physiology might be leveraged to address abnormal uterine contractility. Over the past 5 years, we have focused on uterine contractility. Important discoveries in this area include identification an ion channel, transient receptor potential vanilloid 4, that plays a central and critical role in the control of uterine tone during both quiescence and activation. Our laboratory has created multiple experimental models, established collaborations, and acquired reagents (specifically genetically modified mice) that allow us to rigorously and mechanistically probe the cellular and molecular underpinnings of both physiologic and pathophysiologic labor. We are poised to move the discoveries from bench to bedside.

Chronic Lung Disease of Infancy:

Early contributions were focused upon the regulation of perinatal pulmonary vascular tone. Our Laboratory addressed the subcellular mechanisms that underlie the postnatal adaption of the pulmonary circulation. Key publications demonstrated that pulmonary artery endothelial cells produced endothelial-

derived relaxing factor (EDRF), subsequently identified as nitric oxide (NO), in response to ventilation, oxygenation and shear stress. Further work demonstrated that oxygen, one of the key stimuli for perinatal pulmonary vasodilation, as well as NO acts via quantal and localized release of calcium from ryanodine-sensitive stores to prompt activation of the pulmonary artery smooth muscle cell calcium-sensitive potassium channels. These papers informed the development of several clinical trials wherein the efficacy of inhaled nitric oxide in persistent pulmonary hypertension of the newborn was established.

With improved obstetrical and neonatal care, more, smaller and less developmentally mature infants are surviving even extreme prematurity. Our Laboratory is interested in two fundamental questions surrounding chronic lung disease of infancy. First, whether and how might exposure of oxygen levels in excess of the normally low intrauterine oxygen tension state of the intrauterine environment might compromise lung development. Second, as pulmonary hypertension complicates chronic lung disease of infancy in ~30% of cases, our Laboratory is focusing on the molecular mechanisms that underlie the increase in pulmonary artery blood pressure and identification of novel therapeutic tools to control blood pressure and promote lung development.

Pulmonary Artery Endothelial Cell Barrier Function

Among the most difficult clinical issues to manage is acute respiratory distress syndrome (ARDS). Mortality rates are high. Children with ARDS are more likely to survive than adults with similar severity of illness. Why and how barrier function is more well-preserved in children compared to adults is unknown. Howeovee, we recently demonstrated that focal adhesion kinase expression increases more rapidly in response to either an inflammatory stimulus or hypoxia, in neonates, compared to adults.

CLINICAL TRIALS

- Testing Whether the Addition of Carboplatin Chemotherapy to Cabazitaxel Chemotherapy Will Improve Outcomes Compared to Cabazitaxel Alone in People With Castrate-Resistant Prostate Cancer That Has Spread Beyond the Prostate to Other Parts of the Body, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)
- Molecular and Cellular Physiology (PhD Program)

Publications

PUBLICATIONS

- **Identifying Pulmonary Endothelial Cell Zonation From Single-Cell Transcriptomics.** *Arteriosclerosis, thrombosis, and vascular biology*
  Sveiven, S. N., Knutsen, C., Zanini, F., Cornfield, D. N., Alvira, C. M.
  2026
- **Maturational Transcriptomic Progression Drives Pericyte Function in the Developing Lung**
  Barnes, E., Knutsen, C., Che, X., Forst, M. L., Alvira, C., Cornfield, D. N.
  OXFORD UNIV PRESS.2026
- **Targeting Endostatin, a Modulator of Alveolarization, Prevents Neonatal Lung Injury**
  Cornfield, D. N., Che, X., Alexander, K. J., Forst, M. L., Knutsen, C., Barnes, E. A., Alvira, C. M.
  OXFORD UNIV PRESS.2026
- **Single-cell Transcriptomics Reveal Novel Dlk1+and Steap4+Positive Mural Cell Subtypes in Mouse and Human Lung Tissue**
  Forst, M. L., Knutsen, C., Barnes, E. A., Che, X., Zanini, F., Alvira, C. M., Cornfield, D. N.
  OXFORD UNIV PRESS.2026

- **Stabilizing and strengthening the U.S. physician-scientist faculty workforce in academic medicine: a proposed institutional framework.** *JCI insight*
  Williams, C. S., Allen, M., Cooper Byas, P., Hawley, J. B., Muglia, L. J., Abel, E. D., Bastarache, J. A., Calfee, C. S., Carethers, J. M., Cornfield, D. N., Eickelberg, O., Gallagher, E. J., Greka, et al
  2026
- **Combined Lung-Liver Transplant to Treat Complications After Bone Marrow Transplant in a Child**
  Davala, S. V., Cornfield, D. N., Milla, C., Ebel, N., Kirchner, V. A., Martin, E., Busque, S., Si, X.
  ELSEVIER SCIENCE INC.2026: 332-333
- **Ventilator management on extracorporeal membrane oxygenation: considerations for open lung strategy.** *Current opinion in pediatrics*
  Vohwinkel, C., Haileselassie, B., Cornfield, D. N.
  2026
- **TRPV4-mediated calcium signaling in human uterine endothelial and smooth muscle cells**
  Fornes, D., Ansari, J., Michel, G., Cornfield, D.
  SPRINGER HEIDELBERG.2026
- **To Honor the Career and Legacy of Carol K. Conrad, MD.** *Pediatric pulmonology*
  Cornfield, D. N.
  2026; 61 (3): e71588
- **In the gravid human uterus, oxytocin induces smooth muscle cell contraction via transient receptor potential vanilloid 4 channel activation.** *The Journal of physiology*
  Fornes, D., Ansari, J. R., Michel, G., Alvira, C. M., Cornfield, D. N.
  2026
- **A Pilot Program to Engage, Retain, and Train Physicians as Scientists: Creating and Sustaining a Discovery-Driven Community.** *The Journal of pediatrics*
  Solvik, T. A., Schnoes, A. M., Nguyen, T. A., Behrman, S. L., Maksoud, E., Goodwin, S. S., Weiss, E. J., Padmanabhan, A., Cornfield, D. N.
  2026: 114995
- **A Transcriptional Atlas of Endothelial Cell Zonation Along the Pulmonary Vascular Tree.** *bioRxiv : the preprint server for biology*
  Sveiven, S. N., Knutsen, C., Zanini, F., Cornfield, D. N., Alvira, C. M.
  2026
- **Postnatal Abrogation of VEGFR2 Blocks Terminal Cap2 Differentiation by Preventing the Developmental Progression from a Capillary Intermediate Cell State.** *bioRxiv : the preprint server for biology*
  Zhang, D., Knutsen, C., Stroud, D. J., Che, X., Cornfield, D. N., Zanini, F., Alvira, C. M.
  2025
- **FSHR EXPRESSION IN GRAVID UTERINE SMOOTH MUSCLE CELLS AND ITS DOWNREGULATION IN UTERINE ATONY REVEALED BY SINGLE-NUCLEUS TRANSCRIPTOMICS**
  Fornes, D., Ansari, J., Knutsen, C., Michel, G., Kum, A., Alvira, C., Cornfield, D.
  W B SAUNDERS CO LTD.2025
- **TRANSCRIPTOMIC ANALYSIS OF THE HUMAN UTERUS IN PRETERM LABOR VERSUS PRETERM NON-LABORING REVEALS IMMUNE AND REGULATORY SIGNATURES**
  Fornes, D., Ansari, J., Michel, G., Cornfield, D.
  W B SAUNDERS CO LTD.2025
- **From Development to Regeneration: The Endothelial Interface in Lung Injury and Repair.** *American journal of physiology. Lung cellular and molecular physiology*
  Vila Ellis, L., Cornfield, D. N., Croglio, M. P., Islam, M. N., Meegan, J. E.
  2025
- **An inflatable "finger-lock" for stabilizing nailfold capillary videos and modulating blood flow velocities.** *The Review of scientific instruments*
  Forst, M. L., Rincon, G., Levy, J. H., Cornfield, D. N., Quake, S. R.
  2025; 96 (8)
- **Pediatric pulmonology: medical frontiers advanced, borders blurred.** *Current opinion in pediatrics*

Cornfield, D. N.
2025; 37 (3): 257-258

- **Phosphatase-independent activity of smooth-muscle calcineurin orchestrates a gene expression program leading to hypertension.** *PLoS biology*
  Yunes-Leites, P. S., Sun, Y., Martínez-Martínez, S., Alfayate, Á., Toral, M., Méndez-Olivares, M. J., Colmenar, Á., Torralbo, A. I., López-Maderuelo, D., Mateos-García, S., Cornfield, D. N., Vázquez, J., Redondo, et al
  2025; 23 (5): e3003163
- **Developmental Alterations in Lung Pericytes Facilitate Alveolarization**
  Barnes, E., Che, X., Alvira, C. M., Cornfield, D.
  AMER THORACIC SOC.2025
- **Endostatin Antibody Treatment Prevents Hyperoxia-induced Neonatal Murine Lung Injury**
  Cornfield, D. N., Usich, N., Barnes, E. A., Che, X., Knutsen, C., Alvira, C. M.
  AMER THORACIC SOC.2025
- **Abrogation of VEGFR2 Signaling in Capillary-2 Endothelial Cells During Postnatal Development Impairs Cap2 Differentiation and Induces Lung Fibrosis**
  Zhang, D., Che, X., Knutsen, C., Kum, A., Cornfield, D. N., Zanini, F., Alvira, C. M.
  AMER THORACIC SOC.2025
- **The Developmental Program in Neonatal Pulmonary Pericytes Facilitates Alveolarization and Is Uniquely Susceptible to Hyperoxia-induced Lung Injury**
  Che, X., Barnes, E. A., Zhang, D., Knutsen, C., Kum, A., Zanini, F., Alvira, C. M., Cornfield, D. N.
  AMER THORACIC SOC.2025
- **Two Cases of Bronchiolitis Obliterans With Late-onset Left Lung Collapse Following Mucocutaneous Disease Associated With Mycoplasma Pneumoniae Infection**
  Hendra, K., Jin, K., Lee, J., Si, X., Tracy, M., Milla, C. E., Cornfield, D. N., Steffes, L. C.
  AMER THORACIC SOC.2025
- **Navigating ETI Use in Pediatric Patient with CF Post Lung Transplant**
  Si, X., Brockmeyer, J., Milla, C., Cornfield, D., Conrad, C., Avdimiretz, N.
  ELSEVIER SCIENCE INC.2025
- **A Single Nuclear and Spatial Transcriptomic Atlas of the Contractile and Atonic Gravid Human Uterus Reveals Two Distinct Smooth Muscle Cell Populations**
  Ansari, J., Fornes, D., Knutsen, C., Yang, L., Michel, G., Kum, A., Henze, D., Alvira, C., Quake, S., Cornfield, D.
  SPRINGER HEIDELBERG.2025: 60A
- **Transient Receptor Potential Vanilloid 4 (TRPV4) Channel Mediates Oxytocin-Induced Uterine Contractility**
  Fornes, D., Ansari, J., Michel, G., Alvira, C., Cornfield, D.
  SPRINGER HEIDELBERG.2025: 220A
- **Loss of TRPV4 decreases NFκB-mediated myometrial inflammation and prevents preterm labor.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
  Ingles, J. A., Rodriguez, Z., Fornes, D., Ying, L., Han, X., Cornfield, D. N., Alvira, C. M.
  2025; 39 (4): e70418
- **Intracellular Calcium Response to Oxytocin in Uterine Smooth Muscle Cells From Patients With Uterine Atony.** *Anesthesia and analgesia*
  Ansari, J. R., Fornes, D., Obiyo, L. T., Michel, G., Cornfield, D. N.
  2024
- **miR-203 modulates pregnant myometrium contractility via transient receptor potential vanilloid 4 channel expression.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
  Ying, L., Fornes, D. D., Dobberfuhl, A. D., Ansari, J. R., Alvira, C. M., Cornfield, D. N.
  2024; 38 (22): e70173
- **Studying the Pulmonary Endothelium in Health and Disease. An Official American Thoracic Society Workshop Report.** *American journal of respiratory cell and molecular biology*

Hough, R. F., Alvira, C. M., Bastarache, J. A., Erzurum, S. C., Kuebler, W. M., Schmidt, E. P., Shimoda, L. A., Abman, S. H., Alvarez, D. F., Belvitch, P., Bhattacharya, J., Birukov, K. G., Chan, et al
2024

- **Pediatric pulmonology: progress at the intersection of medicine and discovery.** *Current opinion in pediatrics*
  Cornfield, D. N.
  2024; 36 (3): 288-289

- **Neonatal Hyperoxia Causes Pulmonary Hypertension and Increases Pulmonary Vascular Smooth Muscle Cell Calponin-1 Expression**
  Dinh, D. T., Barnes, E. A., Fornes, D., Knutsen, C., Che, X., Zanini, F., Alvira, C. M., Cornfield, D. N.
  AMER THORACIC SOC.2024

- **VIEWING PULMONARY HYPERTENSION THROUGH A PEDIATRIC LENS.** *The European respiratory journal*
  Agarwal, S., Fineman, J., Cornfield, D. N., Alvira, C. M., Zamanian, R. T., Goss, K., Yuan, K., Bonnet, S., Boucherat, O., Pullamsetti, S., Alcázar, M. A., Goncharova, E., Kudryashova, et al
  2024

- **Nailfold capillaroscopy as a noninvasive tool for evaluating microvascular health in diabetes**
  Rincon, G., Forst, M. L., Cornfield, D. N., Quake, S. R.
  CELL PRESS.2024: 437A

- **Effects of age on human capillaries**
  Forst, M. L., Rincon, G., Cornfield, D. N., Quake, S. R.
  CELL PRESS.2024: 437A

- **MicroRNA-34a-Dependent Attenuation of Angiogenesis in Right Ventricular Failure.** *Journal of the American Heart Association*
  Reddy, S., Hu, D. Q., Zhao, M., Ichimura, S., Barnes, E. A., Cornfield, D. N., Alejandre Alcázar, M. A., Spiekerkoetter, E., Fajardo, G., Bernstein, D.
  2024: e029427

- **Hyperoxia prevents the dynamic neonatal increases in lung mesenchymal cell diversity.** *Scientific reports*
  Zanini, F., Che, X., Suresh, N. E., Knutsen, C., Klavina, P., Xie, Y., Domingo-Gonzalez, R., Liu, M., Kum, A., Jones, R. C., Quake, S. R., Alvira, C. M., Cornfield, et al
  2024; 14 (1): 2033

- **Integrative analysis of noncoding mutations identifies the druggable genome in preterm birth.** *Science advances*
  Wang, C., Wang, Y. J., Ying, L., Wong, R. J., Quaintance, C. C., Hong, X., Neff, N., Wang, X., Biggio, J. R., Mesiano, S., Quake, S. R., Alvira, C. M., Cornfield, et al
  2024; 10 (3): eadk1057

- **Intravenous Calcium to Decrease Blood Loss During Intrapartum Cesarean Delivery: A Randomized Controlled Trial.** *Obstetrics and gynecology*
  Ansari, J. R., Yarmosh, A., Michel, G., Lyell, D., Hedlin, H., Cornfield, D. N., Carvalho, B., Bateman, B. T.
  2023

- **Loss of Prolyl Hydroxylase 1 and 2 in SM22α-Expressing Cells Prevents Hypoxia-Induced Pulmonary Hypertension.** *American journal of physiology. Lung cellular and molecular physiology*
  Barnes, E. A., Ito, R., Che, X., Alvira, C. M., Cornfield, D. N.
  2023

- **Delivering a New Future for People With Cystic Fibrosis.** *Pediatrics*
  Burgener, E. B., Cornfield, D. N.
  2023; 152 (4)

- **ROLE OF TRPV4 IN MODULATING CALCIUM SIGNALING PATHWAYS IN NON-LABORING PREGNANT WOMEN: IMPLICATIONS FOR MYOMETRIAL CONTRACTILITY AND PRETERM LABOR MANAGEMENT**
  Fornes, D., Ying, L., Ansari, J., Obiyo, L., Alvira, C., Cornfield, D.
  W B SAUNDERS CO LTD.2023: E33-E34

- **Hypoxia Inducible Factor-1α in SM22α Expressing Cells Modulates Alveolarization.** *American journal of respiratory cell and molecular biology*
  Barnes, E. A., Knutsen, C., Kindt, A., Che, X., Ying, L., Adams, E., Gonzalez, E., Oak, P., Hilgendorff, A., Alvira, C. M., Cornfield, D. N.
  2023

- **Alterations of Aerocyte Capillary Phenotype During Postnatal Development and in Response to Injury**
  Zhang, D., Che, X., Knutsen, C., Liu, M., Suresh, N. E., Saito, T., Cornfield, D., Zanini, F., Alvira, C. M.
  AMER THORACIC SOC.2023
- **Developmental Expression of Paternally Expressed Gene-3 Promotes Angiogenic Function in General Capillary Endothelial Cells From the Early Alveolar Lung**
  Liu, M., Knutsen, C., Che, X., Cornfield, D. N., Zanini, F., Alvira, C. M.
  AMER THORACIC SOC.2023
- **Long-Standing Alterations in Pulmonary Vascular Cell Phenotype and Cell-Cell Communication Upon Recovery From Acute Hyperoxia Defined at Single-Cell Resolution**
  Knutsen, C., Che, X., Liu, M., Zanini, F., Cornfield, D. N., Alvira, C. M.
  AMER THORACIC SOC.2023
- **Neonatal Hyperoxia Causes Vascular Smooth Muscle Specific Transcriptomic Changes and Pulmonary Hypertension**
  Dinh, D. T., Barnes, E. A., Ito, R., Knutsen, C., Che, X., Zanini, F., Alvira, C. M., Cornfield, D. N.
  AMER THORACIC SOC.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
- **Developmental diversity and unique sensitivity to injury of lung endothelial subtypes during postnatal growth.** *iScience*
  Zanini, F., Che, X., Knutsen, C., Liu, M., Suresh, N. E., Domingo-Gonzalez, R., Dou, S. H., Zhang, D., Pryhuber, G. S., Jones, R. C., Quake, S. R., Cornfield, D. N., Alvira, et al
  2023; 26 (3): 106097
- **Fat Embolism Syndrome After Knee Arthroscopy in a Pediatric Patient.** *Chest*
  Bassell-Hawkins, J., Suresh, N. E., Mahoney, D., Van Hentenryck, M., Csortan, A., Pena, D., Cornfield, D. N.
  2023; 163 (3): e107-e110
- **Rare to Ubiquitinous: Alveolar Capillary Dysplasia, FOXF1 and a Sly Approach to Angiogenesis.** *American journal of respiratory and critical care medicine*
  Cornfield, D. N., Nogee, L. M.
  2023
- **Transient Receptor Potential Vanilloid 4 Channel Blockade Decreases Contractility of the Pregnant Human Myometrium**
  Ying, L., Fornes, D., Obiyo, L. T., Ansari, J., Alvira, C. M., Cornfield, D. N.
  SPRINGER HEIDELBERG.2023: 112A-113A
- **SM22α cell specific HIF stabilization mitigates hyperoxia-induced neonatal lung injury.** *American journal of physiology. Lung cellular and molecular physiology*
  Ito, R., Barnes, E. A., Che, X., Alvira, C. M., Cornfield, D. N.
  2022
- **Interstitial Lung Disease Caused by STING-Associated Vasculopathy with Onset in Infancy**
  Lee, L., Cornfield, D. N.
  AMER THORACIC SOC.2022
- **Pharmacologic Inhibition of Wnt Signaling in a Murine Model of Pulmonary Hypertension Halts Neointimal Growth and Causes Neointimal Lesion Regression in Pulmonary Arteries**
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