



#### Conditions Treated:

#### Research Areas:

- *Pulmonary Surfactant Homeostasis*
- *Alveolar Epithelial Cell Biology*
- *Childhood Interstitial Lung Disease*
- *Lung Development*

#### Programs & Services:

- *Department of Medicine*
- *Division of Pulmonary, Critical Care and Sleep Medicine (Adult)*

Research efforts in the Bridges laboratory are focused toward: 1) understanding the molecular regulation of epithelial cell specification and maturation during lung development; and 2) determining the molecular mechanisms that control pulmonary surfactant pool sizes in the postnatal and adult lung, with particular interest in rare pediatric and adult lung diseases associated with surfactant dysfunction. Our lab utilizes state-of-the-art methodologies including CRISPR/Cas9 gene editing in mice, AAV-mediated gene delivery, RNAseq, ATACseq and high content confocal microscopy coupled with physiological and biochemical analyses to address questions of direct clinical relevance.

#### Education

1991 - 1995 University of Colorado at Boulder, Biochemistry, BS

2000 - 2005 University of Cincinnati, Molecular and Developmental Biology, PhD

#### Fellowship

2005 - 2010 Cincinnati Children's Hospital, Pulmonary Biology

#### Doctor's Contact Information

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#### Locations

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