

## Activities

### Research

- Facilitates interdisciplinary basic, translational and clinical research, including both internal and external collaborations
- Provides innovative research funds and new state-of-the-art equipment and facilities through philanthropic and grant efforts
- Assists in coordination and development of extramural research grant proposals, especially interdisciplinary or multi-project grants
- Promotes nationally-funded research by providing infrastructure research support
- Aids in the recruitment and orientation of new research faculty
- Sponsors and operates the O'Brien Biobank & Data base and Morphology Cores for lung research
- Maintains the CLSH Registry of Interested Persons

### Professional Education and Training

- Creates research opportunities and mentorships for trainees and students
- Coordinates and hosts educational conferences which provide educational credits (CMEs or CEUs) for healthcare professionals
- Coordinates and organizes weekly, interdisciplinary didactic lectures, research seminars or case study presentations for faculty, trainees, staff, and students

### Public Education and Outreach

- Coordinates and hosts patient/family education days and public outreach activities
- Creates educational materials and resources
- Responds to inquiries and requests about lung health and disease
- Collaborates with other organizations in promoting lung health and creating disease awareness

*To support lung research, education, or programs at the University of Minnesota, please contact:*

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## Center Leadership



**Director**  
Marshall Hertz, M.D.  
Professor of Medicine



**Center Executive Director**  
David Ingbar, M.D.  
Professor of Medicine

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Working together to improve  
lung health through research,  
education, and public  
outreach

### Our Mission

The Center for Lung Science and Health (CLSH) facilitates interdisciplinary research, education, and outreach activities in order to promote lung health and improve care of patients with lung disease.

## Center Program Areas

### Chronic Lung Disease

Pulmonary fibrosis and interstitial lung disease, pulmonary hypertension, cystic fibrosis, chronic obstructive pulmonary disease (COPD) and alpha-1 antitrypsin deficiency are all chronic lung diseases. These diseases often have devastating effects on the quality of life for those afflicted. Fortunately, University of Minnesota leaders have come together to conduct laboratory and clinical research which can be translated into multidisciplinary state-of-the-art clinical care. In addition, the University of Minnesota has one of the world's largest and most experienced transplant centers.

*Program Leaders: Cystic Fibrosis: Jordan Dunitz, M.D.; COPD: Dennis Niewoehner, M.D. and John Connett, Ph.D.; Interstitial Lung Disease: Timothy Whelan, M.D. and Craig Henke, M.D.; Pulmonary Hypertension: Monica Colvin-Adams, M.D.; Lung Transplantation: Marshall Hertz, M.D. and Cynthia Herrington, M.D.*



### Respiratory Failure and Critical Care

Acute lung injury can lead to chronic conditions and acute respiratory failure. Understanding these conditions is essential for the development of preventative measures and treatment. The CLSH and the Critical Care Center of Excellence are working together to provide ongoing education and training to ensure that medical professionals are aware of both new developments and best practices in critical care medicine.

*Program Leaders: David Ingbar, M.D. and Henry Mann, Pharm.D.*



### Asthma and Allergy

Asthma and allergy are world-wide problems that the University is addressing through international collaborations. Through nationally-funded research, our experts are identifying genes responsible for the development of asthma and the allergic response. Clinical outcomes studies are also being conducted which test the efficacy of new drugs that hold tremendous promise for enhanced patient care. On the educational front, the Program is actively involved in providing professional training for the next generation.

*Program Leader: Malcolm Blumenthal, M.D.*

### Sleep Medicine

Although poor sleep quality can be attributed to a variety of factors, several million people suffer from chronic sleep deprivation due to breathing difficulties. While considerable progress has recently been made in diagnostics of sleep-related breathing disorders, there is still much to learn about this complex field of study. Rising evidence links sleep disorders with decreased health and wellness as well as increased disease severity and even death. Interdisciplinary interactions between experts will lead to a better understanding of sleep and its relationship to overall health.

*Program Leader: Conrad Iber, M.D.*

### Lung Health

A key area of focus for the Center is to promote lung health and disease prevention. The Center has partnered with the University's Transdisciplinary Tobacco Use Research Center and Cancer Center to bring a clinical component to smoking cessation initiatives. In addition, partnerships with experts in occupational and environmental health as well as alternative medicine are helping the Center address the full range of issues associated with lung disease. Several patient-focused educational seminars are hosted by the Center each year to provide information and to encourage lifestyle changes that positively impact lung health. Further collaborations are planned to expand the Center's reach throughout the region.

*Program Leaders: Occupational and Environmental Lung Health: Ian Greaves, M.D.; Tobacco Control and Cessation: Dorothy Hatsukami, Ph.D.; Complementary Medicine: Linda Chlan, R.N., Ph.D.*



### Lung Cancer

While great strides have been made in treatment of various cancers, lung cancer remains the leading cause of cancer-related death and is on the rise in the U.S. A focus on preventative measures along with new treatments and earlier diagnoses is needed to reduce lung cancer and increase survivorship. The CLSH is working with the University of Minnesota Cancer Center to help intensify the research, education and outreach required to reduce the increasing toll of lung cancer.

*Program Leaders: Robert Kratzke, M.D. and Michael Maddaus, M.D.*