

23rd Annual Pulmonary Evening Grand Rounds

How To Build A Lung!

Stem Cells, Scaffolds and Lung Bioengineering: The Future of Pulmonary Medicine?

Conference Overview

Treatment of advanced lung disease has historically targeted relief of symptoms, reduction in exacerbations and stabilization of disease trajectory. Success in these endeavors has been mixed. As with most other serious, chronic diseases, the concept of a “cure” does not enter into the discussion. Lung transplantation remains the only curative option for end-stage lung disease, but a shortage of transplantable lungs limits its application and survival rates for lung transplantation have not improved significantly over the last 20 years.

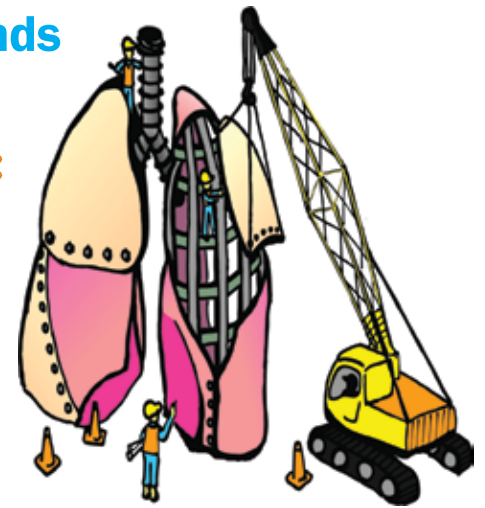
As many advanced lung diseases are associated with irreversible injury to airways or alveoli, the limits of medical therapy for these diseases may nearly have been reached. New treatment strategies that repair or replace injured lungs may one day become realistic treatment alternatives for select disorders. The use of stem cell therapy to locally repair damaged tissue offers the possibility for cell based treatment of advanced lung disease. In addition, bioengineering of artificial organs using natural or synthetic scaffolds may one day allow implantation of lung tissue that is functionally acceptable and immunologically invisible.

The science of cell-based therapy trails the public’s perception of its achievements. The availability of stem cell infusions through stem cell clinics for treatment of advanced lung disease comes at a time when basic questions have not yet been answered. Stem cells from where? How many? How old? At what risk? These are all questions still waiting to be answered.

In this year’s Pulmonary Evening Grand Rounds, we will address stem cell therapy and lung bioengineering as possible future tools of tomorrow’s pulmonologists. We will review the different types of stem cells, discuss the scaffolds they might populate and review recent and proposed clinical trials for stem cell treatment of lung disease. In doing so, we will be learning the early, primitive instructions of How To Build A Lung.

For the past 23 years, Neil A. Ettinger, MD, has organized a citywide pulmonary conference to provide an educational experience on important pulmonary topics as well as foster relationships among area pulmonologists, pulmonary fellows, respiratory care practitioners and others involved in chest medicine. This conference is designed for all physician specialties, nurses, respiratory care practitioners and other allied health professionals.

St. Luke’s Hospital is proud to host this annual pulmonary conference. St. Luke’s is the recipient of the Healthgrades 2019 Pulmonary Care Excellence Award™, ranking among the top 10% in the Nation for Overall Pulmonary Services in 2019 and receiving a 5-Star rating for pneumonia treatment for 17 consecutive years (2003-2019).



Conference Agenda

- 5:15 p.m. Registration, Displays and Hors d'oeuvres Reception**
- 5:55 p.m. Welcome, Opening Remarks and Introductions**
Neil A. Ettinger, MD
Conference Director
St. Luke’s Hospital
- 6:00 p.m. Introduction to Stem Cells and Cellular Therapies**
Vibha N. Lama, MD, MS
University of Michigan
- 6:30 p.m. Many Dreams, Many Realities: Cell-Based Therapy for Lung Disease**
Marilyn K. Glassberg Csete, MD
University of Miami Miller School of Medicine
- 7:00 p.m. Whole Organ Engineering: Variables That Determine Success vs. Failures**
Stephen F. Badylak, DVM, PhD, MD
University of Pittsburgh
- 7:30 p.m. Current and Future Status of Lung Regenerative Medicine**
Daniel J. Weiss, MD, PhD
University of Vermont College of Medicine
- 8:00 p.m. Questions and Answers with Panel Discussion**
Moderator: Neil A. Ettinger, MD
- 8:30 p.m. Adjournment**

Conference Faculty

Stephen F. Badylak, DVM, PhD, MD

Professor, Department of Surgery
Deputy Director of the McGowan Institute for
Regenerative Medicine
University of Pittsburgh
Pittsburgh, PA

Marilyn K. Glassberg Csete, MD

Professor of Medicine, Surgery, and Pediatrics
Vice-Chair of Medicine for Diversity and Innovation
Director, Rare and Interstitial Lung Disease
Program Chief, Pulmonary Division Interdisciplinary
Stem Cell Institute
University of Miami Miller School of Medicine
Miami, FL

Vibha N. Lama, MD, MS

Professor of Internal Medicine
Henry Sewall Research Professor of Pulmonary and
Critical Care Medicine
Associate Chief, Division of Pulmonary and Critical Care
Medicine
University of Michigan
Ann Arbor, MI

Daniel J. Weiss, MD, PhD

Professor, Department of Medicine
Professor, Cell and Molecular Biology Graduate Program
University of Vermont College of Medicine
Burlington, VT

Conference Director and Moderator

Neil A. Ettinger, MD

Director, The Lung Research Center at St. Luke's Hospital
Consultant, CardioPulmonary Associates
Medical Co-Director, Sleep Medicine and Research Center
St. Luke's Hospital
Chesterfield, MO

Disclosure of Potential Conflict of Interest

In accordance with the ACCME *Standards for Commercial Support*, St. Luke's Hospital requires that individuals in a position to control the content of an educational activity disclose all relevant financial relationships with any commercial interest. St. Luke's Hospital resolves all conflicts of interest in an effort to ensure independence, objectivity, balance and scientific rigor in all its educational programs. St. Luke's Hospital is committed to providing its learners with high-quality, unbiased CME activities that promote improvements in healthcare and not those of a commercial interest. Complete disclosure information for all planners and faculty will be listed in the conference syllabus.

Learning Objectives

After attending this conference, participants should be able to:

- Discuss preclinical evidence for use of stem cells in lung diseases and describe the significance of various variables which can modulate potential responses to stem cell therapies.
- Describe the safety and current limitations in cell-based therapies in lung disease.
- Identify critical variables that determine success in creating functional lung tissue and what are the immunologic consequences of using allogeneic vs. xenogeneic bioscaffolds for lung engineering.
- Discuss medical tourism and stem cell clinics; stem cell ethics; and the future of stem cell treatment and lung bioengineering over the near, intermediate and long-term.

Conference Credit

For Physicians:

St. Luke's Hospital designates this live activity for a maximum of **2.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

For Non-Physicians:

This activity was designated for a maximum of **2.5 AMA PRA Category 1 Credits™**. Please claim only the number of hours you participated in the activity. Non-physician professionals should check with their licensing/credentialing organization to confirm participation in this CME Activity will be accepted for continuing education credit.

For Respiratory Care Practitioners:

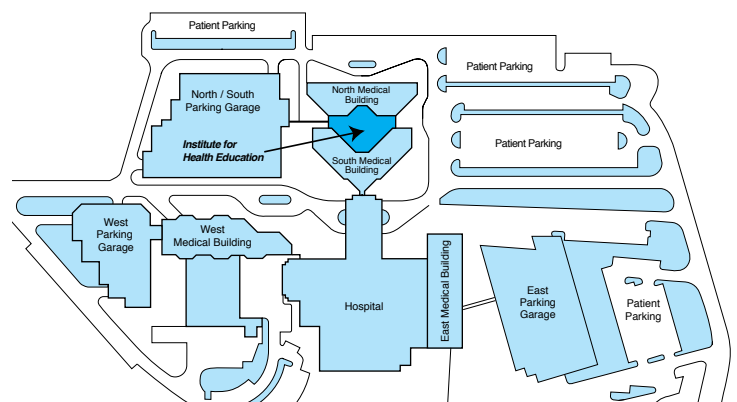
An application for 2.5 continuing education hours for respiratory care practitioners has been submitted to the Missouri Board for Respiratory Care. Approval is pending.

Conference Location

St. Luke's Hospital
Institute for Health Education • Emerson Auditorium
222 S. Woods Mill Road • Chesterfield, MO 63017

St. Luke's Hospital is located three miles west of Interstate 270 and a half-mile north of Highway 40/I-64 on Woods Mill Road (Highway 141).

Parking is available in the North/South Garage and surface lots adjacent to St. Luke's Institute for Health Education.



Accreditation Statement

St. Luke's Hospital is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Registration Fees & How to Register

There is no registration fee for the medical staff and employees of St. Luke's Chesterfield and Des Peres to attend. There is also no registration fee for fellows, residents, interns or students. There is a \$50 registration fee for *non*-St. Luke's physicians and a \$25 registration fee for *non*-St. Luke's healthcare professionals. **Registration is required no later than Monday, Nov. 5, 2018.** Registrations may be made online, or by fax or phone if a credit card is used. Register online at stlukes-stl.com: Classes & Events, Continuing Medical Education, Special Events, 23rd Annual Pulmonary Evening Grand Rounds.

Cancellation Policy

Registrants who are unable to attend are eligible for a full refund if the cancellation request is made in writing no later than **Monday, Nov. 5, 2018**. No refunds will be given thereafter; this includes no-shows. Please email Christine Fox at christine.fox@stlukes-stl.com.



Special Assistance

Programs, activities and seminars provided by St. Luke's Hospital are accessible to any individual without regard to age, sex, race, national origin, religion, disability or handicap. St. Luke's Hospital will provide reasonable

accommodations to those in need. Anyone needing an accommodation or special assistance should call 314-542-4762. **Advance notice of 48 hours is required.**

For Additional Information

Christine Fox
CME Coordinator
314-542-4759
christine.fox@stlukes-stl.com

Jeannie Dwyer
CME Manager
314-542-4762
jeannie.dwyer@stlukes-stl.com



Our specialty is you.

stlukes-stl.com

Registration Form

23rd Annual Pulmonary Evening Grand Rounds

Thursday, Nov. 8, 2018

Please complete the registration form and return by Nov. 5, 2018.

(Please type or print legibly)

Name

Degree – MD, DO, RN, RRT, Other (please specify)

Address

Suite #

City/State/ZIP code

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Phone

Fax

Email

Specialty/Practice Area

Primary Hospital Affiliation/Employer

Registration Fee

Please check the appropriate box

- No registration fee for St. Luke's Chesterfield or Des Peres medical staff, St. Luke's employees, and all fellows, residents, interns or students.
- \$50 registration fee for *non*-St. Luke's physicians
- \$25 registration fee for *non*-St. Luke's healthcare professionals

Payment Method

- Enclosed is a check made payable to: *St. Luke's Hospital Continuing Medical Education*

Please charge my:

- MasterCard
- Visa
- American Express
- Discover

Card #

Authorizing Signature

Exp. Date

Authorizaion Code

If a credit card is used, registration may be made online or by fax or phone.

Online: stlukes-stl.com, Click on Classes & Events, Continuing Medical Education, Special Events, 23rd Annual Pulmonary Evening Grand Rounds

Fax: 314-542-4728

Phone: 314-542-4759

Mail registration form and fee, if appropriate, to:

St. Luke's Hospital, Continuing Medical Education, 232 S. Woods Mill Road, Chesterfield, MO 63017

Email: christine.fox@stlukes-stl.com



CME credit

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Sponsored by

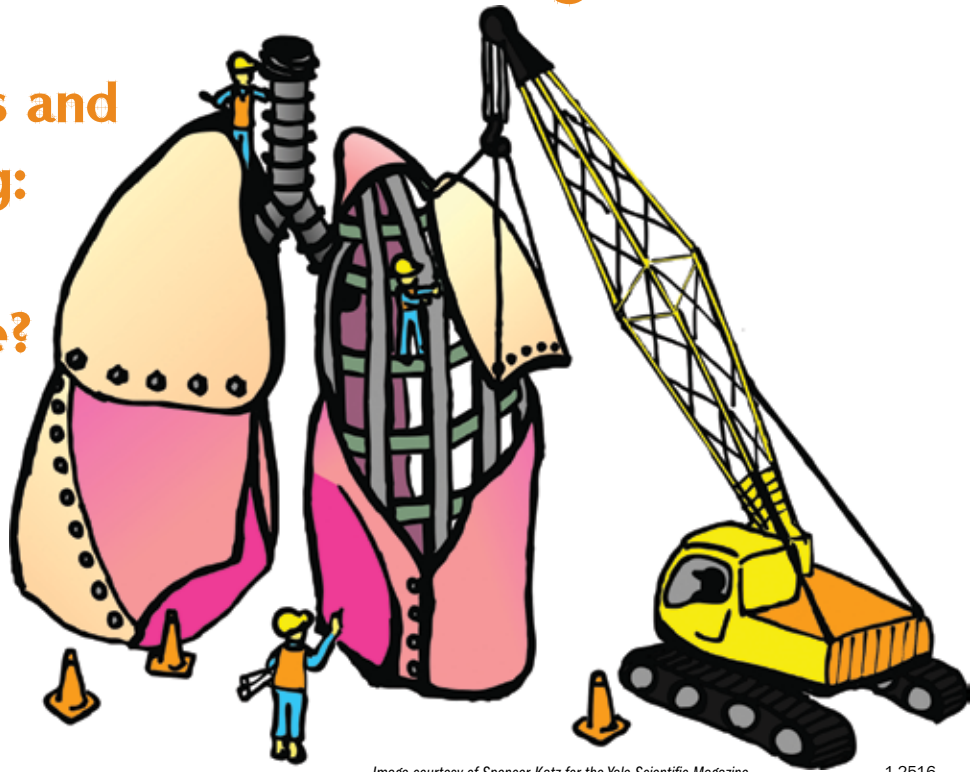


Image courtesy of Spencer Katz for the Yale Scientific Magazine

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