



**Phenotyping Mouse Models of Human Lung Disease
September 20 - 24, 2009**

WORKSHOP SCHEDULE

This is a preliminary schedule and is subject to change.

*Unless noted otherwise, all sessions are in the
Highseas Conference Room or GRB Training Laboratory*

For more information, please contact Nancy.Place@jax.org

Sunday, September 20

Arrival at Highseas Conference Center anytime after 12:30 PM for registration/check in.

4:00 PM **Reception and Registration at Highseas**

6:00 PM **Dinner at Highseas**

Monday, September 21 - The Mouse and How We Use It

8:00 AM **Overview of Course Evaluations**
Suzanne Hart, *University of Maine*

8:10 AM **Introduction and Orientation**

8:30 AM **Mouse Models of Lung Disease**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health

9:15 AM **History, Genetics, and Nomenclature**
John Macauley, Ph.D., The Jackson Laboratory

10:00 AM **Husbandry, Caging and Breeding**
Dorcas Corrow, B.S., L.A.T.G., The Jackson Laboratory (retired)

10:45 AM **Break**

- 11:00 AM Pathology of Lung Disease**
Brian Simons, D.V.M., - John Hopkins Medicine
- 12:00 PM Lunch, Highseas Dining Room**
- 1:00 PM Anesthesia of the Mouse**
Anthony Nicholson, B.V.Sc., , Ph.D.
- 2:00 PM Transportation to GRB Training Lab**
- 2:15 PM Lab: Biomethods #1**
Bonnie Lyons, D.V.M., The Jackson Laboratory
- 3:15 PM Break**
- 3:30 PM Lab: Biomethods #2 (including an introduction to the flexiVent)**
Annette Robichaud, Ph.D., SCIREQ Scientific Respiratory Equipment Inc.
- 5:30 PM Transportation to Highseas**
- 6:00 PM Dinner, Highseas Dining Room**

Tuesday, September 22 - Assessment of Mouse Lung Function

- 8:00 AM Foundations of Lung Function**
Jason Bates, Ph.D., The University of Vermont
- 8:45 AM Lung Mechanics/Forced Oscillation**
Jason Bates, Ph.D., The University of Vermont
- 9:30 AM Break**
- 9:45 AM Techniques for imaging the small animal lung: Micro-CT and Micro-MR**
Laurence W. Hedlund, Ph.D., Duke University Medical Center
- 10:45 AM Lung Volumes and Pressure-Volume Curves**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health
- 11:30 AM Lunch, Highseas Dining Room**
- 12:30 PM Transportation to GRB Training Lab**
- 1:00 PM Lab: Lung Mechanics and Airway Responsiveness**
Faculty
- 2:30 PM Break**

- 2:45 PM** **Discussion of how to Quantify Airway Responsiveness**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health
- 3:00 PM** **Lab: Lung Mechanics and Airway Responsiveness (cont'd)**
Faculty
- 4:30 PM** *Transportation to Highseas*
- 6:00** *Dinner, Highseas Dining Room*
- 7:00 – 9:00** **“Roundtable Discussion”**
Highseas Living Room

Wednesday, September 23 - Assessment of Pulmonary Pathology

- 8:00 AM** **Microscopy and the Lung**
Doug Taatjes, Ph.D., The University of Vermont
- 8:45 AM** **Imaging small animal models of lung disease: Asthma, emphysema, fibrosis and cancer**
Laurence W. Hedlund, Ph.D., Duke University Medical Center
- 9:30 AM** **Break**
- 10:00 AM** **Harvest & Fixation Techniques**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health
- 10:30 AM** **Normal Mouse Cytology**
James J. Lee, Ph.D., Mayo Clinic Arizona
- 11:30 AM** **Lunch, Highseas Dining Room**
- 12:30 PM** *Transportation to GRB Training Lab*
- 12:45 PM** **Lung Harvest & Fixation**
Faculty
- 1:45 PM** **Sampling Techniques: Blood, Lavage**
Faculty
- 2:45 PM** **Break**
- 3:00 PM** **Mouse Lung Pathology Rounds**
Faculty

3:45 PM **Mouse Lung/Blood Cytology**
Faculty

4:15 PM *Transportation to Highseas*

6:00 PM **Lobster Dinner at Highseas**

Thursday, September 24 - Quantitative Lung Imaging and Pathology

8:00 AM **Confocal Microscopy**
Douglas Taatjes, Ph.D., The University of Vermont

9:00 AM **Introduction to Morphometry/Stereology and Sampling**
Matthias Ochs, M.D. , University of Bern

10:30 AM **Break**

11:00 AM **Basic Measures: Volume., Number, Surface and Length**
Matthias Ochs, M.D. , University of Bern

12:00 PM **Lunch, *Highseas Dining Room***

Free Afternoon

6:00 **Dinner and Summary Discussion, *Highseas Dining Room***

Friday, September 25

Check out of your room by 9:00am

If your flight departs later than the available check out time on the 25th, please evacuate your room but you may use the first floor amenities.