



**Phenotyping Mouse Models of Human Lung Disease
September 9 - 13, 2007**

**TENTATIVE COURSE SCHEDULE
(Subject to change)**

*Unless noted otherwise, all sessions are in the
GRB conference Rm. 3225 or GRB Training Laboratory*

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

Sunday, September 9

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 10 - The Mouse and How We Use It

8:15 AM *Van transportation to GRB*

8:30 AM Introduction and Orientation

8:45 AM Animal Models of Lung Disease
Charles Irvin, Ph.D., The University of Vermont

9:30 AM History, Genetics, and Nomenclature
John Macauley, Ph.D., The Jackson Laboratory

10:15 AM Husbandry, Caging and Breeding
Dorcas Corrow, B.S., L.A.T.G., The Jackson Laboratory (retired)

11:00 AM Break

11:15 AM Anesthesia of the Mouse
Anthony Nicholson, B.V.Sc., Ph.D., The Jackson Laboratory

- 12:30 PM** **Lunch at Roscoe's**
- 1:30 PM** **Lab: Biomethods #1**
Bonnie Lyons, D.V.M., The Jackson Laboratory
- 2:30 PM** **Common Mouse Diseases and What to Do About It**
Peggy Danneman, V.M.D., M.S., DACLAM., The Jackson Laboratory
- 3:30 PM** **Break**
- 3:45 PM** **Lab: Biomethods #2**
Bonnie Lyons, D.V.M., The Jackson Laboratory
- 5:00 PM** *Van transportation to Highseas*
- 6:00 PM** **Dinner at Highseas**

Tuesday, September 11 - Assessment of Mouse Lung Function

- 8:45 AM** *Van transportation to GRB*
- 9:00 AM** **Foundations of Lung Function**
Jason Bates, Ph.D., D.Sc., The University of Vermont
- 10:00 AM** **Lung Mechanics/Forced Oscillation**
Jason Bates, Ph.D., D.Sc., The University of Vermont
- 10:45 AM** **Break**
- 11:00 AM** **Lung Volumes, PV Curves**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health
- 12:00 PM** **Lunch at Roscoe's**
- 1:30 AM** **Lab: Lung Mechanics**
Faculty
- 2:30 PM** **Airway Responsiveness**
Charles Irvin, Ph.D., The University of Vermont
- 3:30 PM** **Break**
- 3:45 PM** **Lab: AHR**
Faculty

5:00 PM *Van transportation to Highseas*

6:00 **Dinner at Highseas**

Wednesday, September 12 - Assessment of Pulmonary Pathology

8:45 AM *Van transportation to GRB*

9:00 AM **Normal Mouse Lung Anatomy**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health

9:30 AM **Pathology of the Mouse Lung**
Charles Irvin, Ph.D., The University of Vermont

10:00 AM **Normal Mouse Cytology**
James J. Lee, Ph.D., Mayo Clinic Arizona

10:30 AM **Break**

10:45 AM **Harvest & Fixation Techniques**
Wayne Mitzner, Ph.D., Johns Hopkins Bloomberg School of Public Health

11:15 AM **Laser Capture Microdissection**
Douglas Taatjes, Ph.D., The University of Vermont

12:00 PM **Epigenetic Mechanisms Play a Fundamental Role in Allergic Airway Disease**
David A. Schwartz, M.D., NHLBI/NIH

12:00 **Lunch (*during Dr. Schwartz's lecture*) GRB 3225**

1:30 PM **Lung Harvest & Fixation**
Faculty

2:30 PM **Sampling Techniques: Blood, Lavage**
Faculty

3:30 PM **Break**

3:45 PM **Mouse Lung Pathology Rounds**
Faculty

4:30 PM **Mouse Lung/Blood Cytology**
Faculty

5:30 PM *Van transportation to Highseas*

6:00 **Lobster Dinner at Highseas**

Thursday, September 13 - Quantative Lung Imaging and Pathology

8:45 AM *Van transportation to GRB*

9:00 AM **Confocal Microscopy**
Douglas Taatjes, Ph.D., The University of Vermont

9:50 AM **Semi Quantative Pathology**
Dallas Hyde, Ph.D., University of California at Davis

10:20 AM **Break**

10:30 AM **Introduction to Morphometry/Stereology and Sampling**
Dallas Hyde, Ph.D., University of California at Davis

11:20 AM **Smooth Fractionator Exercise**
Dallas Hyde, Ph.D., University of California at Davis

12:00 PM **Lunch at Roscoe's**

1:30 PM **Basic Measures: Volume, Number, Surface and Length**
Dallas Hyde, Ph.D., University of California at Davis

2:20 PM **Cavalieri Volume and Alveolar Counting Exercise**
Dallas Hyde, Ph.D., University of California at Davis

3:30 PM **Break**

4:30 PM **How Many Animals? Power Calculations, Statistical Considerations and Summary**
Dallas Hyde, Ph.D., University of California at Davis &
Charles Irvin, Ph.D., The University of Vermont

5:30 PM *Van transportation to Highseas*

6:00 PM **Dinner at Highseas**