



**17th ANNUAL SHORT COURSE ON
EXPERIMENTAL MODELS OF HUMAN CANCER
August 22-31, 2008**

This schedule is subject to change
For more information, contact barbara.donovan@jax.org

Friday, August 22 (*Highseas*)

- 12:30 PM** Arrival at Highseas anytime after 12:30 PM for registration
- 4:00** Reception at Highseas
- 5:00** **Course Evaluations**
Suzanne Hart, University of Maine
- 5:15** **History of The Jackson Laboratory in Cancer Research**
Barbara Knowles, Ph.D., The Jackson Laboratory
- 6:00** Dinner (*Highseas*)

Saturday, August 23

- 8:15 AM** *Van Transportation to Main Lab*
- 8:30 AM** **Pathology and histopathology of normal and neoplastic tissue: an overview** (*CC Little Auditorium*)
Oded Foreman, D.V.M., ACVP, The Jackson Laboratory
- 9:30** **Training Laboratory Use Policy** (*CC Little Auditorium*)
Jennifer Corrigan, M.S., The Jackson Laboratory
- 9:40** **Colony management workshop (Group A)** (*CC Little Auditorium*)
- **Practical aspects of using mice in biomedical research: a primer in mouse genetics and *nomenclature***
Jennifer Corrigan, M.S., The Jackson Laboratory
 - **Practical aspects of using mice in biomedical research: *breeding strategies***

Dorcas Corrow, B.S., L.A.T.G., The Jackson Laboratory

- **Practical aspects of using mice in biomedical research: *Issues in Animal Health***

Peggy Danneman, VMD, MS, DACLAM, The Jackson Laboratory

Pathology and necropsy workshop (Group B) ([GRB Training Lab](#))

Oded Foreman, D.V.M., ACVP, The Jackson Laboratory

12:30 PM Lunch ([Roscoe's](#))

1:30 Colony management workshop (Group B) ([CC Little Auditorium](#))

Pathology and necropsy workshop (Group A) ([GRB Training Lab](#))

4:30 Van Transportation to Highseas

6:00 Dinner ([Highseas](#)) and discussion with the days faculty

Sunday, August 24 ([CC Little Auditorium](#))

8:15 AM Van Transportation to Main Lab

Fundamentals

8:30 AM **Mouse Genetics**
Nancy Jenkins, Ph.D., IMCB/A*STAR, Singapore

9:30 **Mutagenesis and Positional Cloning in Mice**
Rob Burgess, Ph.D., The Jackson Laboratory

10:30 **Break**

11:00 **Molecular genetic tools**
Gregory Cox, Ph.D., The Jackson Laboratory

12:00 PM Lunch ([Roscoe's](#))

1:00 **Statistics and study design**
Michael Festing, Ph.D., University of Leicester (retired)

2:00 **Humanized SCID mouse models for cancer research**
Leonard Shultz, Ph.D., The Jackson Laboratory

3:00 **Break**

3:30 **Harnessing transposons for cancer gene discovery**
Neal G. Copeland, Ph.D., IMCB/A*STAR, Singapore

4:30 *Van Transportation to Highseas*

6:00 Dinner (*Highseas*) and discussion with days Faculty

Monday, August 25 (*CC Little Auditorium*)

8:15 AM *Van Transportation to Main Lab*

Origins, Progression Pathways

8:30 **Mechanisms of malignant progression**
Robert Weinberg, Ph.D., Whitehead Institute

9:30 **Signaling and cancer**
Lewis Cantley, Ph.D., Harvard Medical School

10:30 **Break**

11:00 **Imaging the inner workings of solid tumors**
Rakesh Jain, Ph.D., Harvard Medical School

12:00 PM Lunch (*Roscoe's*)

Bioinformatics

1:30 **From phenotype to gene (and beyond): bioinformatics resources for mouse models of cancer**
Carol Bult, Ph.D., The Jackson Laboratory
Isaac Kohane, M.D., Ph.D., Harvard Medical School
John Quackenbush, Ph.D., Harvard University
Kenneth Buetow, Ph.D., National Cancer Institute

5:00 *Van Transportation to Highseas*

6:00 **Lobster Dinner (*Highseas*) and discussion with the day's faculty**

Tuesday, August 26 (*CC Little Auditorium*)

8:15 AM *Van Transportation to Main Lab*

Stem Cell Biology

8:30 **Cloning, imprinting and reprogramming: path to the stem cells**
Davor Solter, M.D., Ph.D., IMB A*STAR, Singapore

- 9:30** **Pluripotency, stem cells and epigenetic reprogramming**
Rudolph Jaenisch, Ph.D., Whitehead Institute
- 10:30** **Break**
- 11:00** **Stem cells and cancer**
David Scadden, M.D., Harvard Medical School
- 12:00 PM** **Lunch (*Roscoe's*)**
- 12:45** *Van Transportation to Highseas*
Free afternoon- hike or bike
- 6:00** **Dinner (*Highseas*) and discussion with the days faculty**

Wednesday, August 27 (*CC Little Auditorium*)

- 8:15 AM** *Van Transportation to Main Lab*

Pathways to Cancer Development

- 8:30** **Viruses and cancer**
Susan Ross, Ph.D., The University of Pennsylvania
- 9:30** **Pathways in viral oncogene induced cancers**
Terry Van Dyke, Ph.D., National Cancer Institute
- 10:30** **Break**
- 11:00** **Multiple roles of colorectal cancer genes**
Raju S. Kucherlapati, Ph.D., Harvard Medical School
- 12:00 PM** **Lunch (*Roscoe's*)**
- 1:30** **Epigenetics and cancer**
Andrew Feinberg, M.D., M.P.H., Johns Hopkins University
- 2:30** **E-cadherin and β -catenin in development and cancer**
Rolf Kemler, Ph.D., Max Planck Institute for Immunobiology
- 3:30** **Break**
- 4:00** **Genomic instability and cancer**
Kevin Mills, Ph.D., The Jackson Laboratory
- 5:30** *Van Transportation to Highseas*

6:00 Dinner (*Highseas*) and discussion with the days faculty

Thursday, August 28 (*CC Little Auditorium*)

8:15 AM *Van Transportation to Main Lab*

Mechanisms of Carcinogenesis

8:30 **Use of Mouse Models of KRAS and EGFR induced lung cancer to study drug response and drug resistance**

Harold Varmus, M.D., Memorial Sloan-Kettering Cancer center

9:30 **Genetic changes in lung cancer**

Matthew Meyerson, M.D., Ph.D., Dana-Farber Cancer Institute

10:30 **Break**

11:00 **Mechanism of mouse lung carcinogenesis**

Ming You, M.D., Ph.D. Washington University School of Medicine

12:00 PM **Lunch (*Roscoe's*)**

1:00 **Translocations, lymphomas and solid tumors**

Frederick W. Alt, Ph.D., Harvard Medical School

2:00 **Genomic approaches to model human leukemia in mice**

Scott Armstrong, M.D., Ph.D., Harvard Medical School

3:00 **Break**

3:30 **Genetic background, environment and cancer phenotypes**

David Threadgill, Ph.D., University of North Carolina

6:00 Dinner (*Highseas*) and discussion with the days faculty

Friday, August 29 (*CC Little Auditorium*)

Translation

8:15 AM *Van Transportation to Main Lab*

8:30 **Manipulation of the Immune System in Cancer Therapy**

James P. Allison, Ph.D., Memorial Sloan-Kettering Cancer Center

- 9:30 **Translational Aspects of Modeling Human Cancer in Mice: pre-clinical trials**
Eric Holland, M.D., Ph.D., Memorial Sloan-Kettering Cancer Center
- 10:30 **Break**
- 11:00 **Genetic approaches to therapy - mouse leukemia models**
Shaoguang Li, Ph.D., University of Massachusetts Medical School
- 12:00 PM **Lunch (*Roscoe's*)**
- 1:30 **Development of mouse models to study novel therapeutic approaches to the treatment of human cancer**
Pier Paolo Pandolfi, M.D., Ph.D., Harvard Medical School
- 2:30 **Prostate cancer**
Arul Chinnaiyan, M.D., Ph.D., University of Michigan
- 3:30 **Break**
- 4:00 **Proteomic approaches to identifying new cancer markers**
Samir Hanash, M.D., Ph.D., Fred Hutchison Cancer Research Center
- 5:00 *Van Transportation to Highseas*
- 6:00 **Lobster dinner (*Highseas*) and discussion with the day's faculty**

Saturday, August 30

- 8:15 AM *Van Transportation to Main Lab*
- 8:30 **Modalities for imaging mice in vivo: an overview** (*FGB 4th Flr conference room*)
Anthony Nicholson, B.V.Sc., Ph.D., The Jackson Laboratory
- 9:30 **Imaging workshop (group A) (*Physiology core lab*)**
Anthony Nicholson, B.V.Sc., Ph.D., The Jackson Laboratory
- Bioinformatics workshop (Group B) (*Staff Conference Room*)**
Carol Bult, Ph.D., The Jackson Laboratory
- 12:30 PM **Lunch**
- 1:30 **Imaging workshop (Group B) (*Physiology core lab*)**
- Bioinformatics workshop (Group A) (*Staff Conference Room*)**
- 4:30 *Van Transportation to Highseas*

6:00 Dinner at Highseas

Sunday, August 31

Group activity and Departures

Monday, September 1

Final Departures