



**18<sup>th</sup> ANNUAL SHORT COURSE ON EXPERIMENTAL MODELS OF HUMAN CANCER  
August 21-30, 2009**

**This schedule is subject to change**  
For more information please contact [nancy.place@jax.org](mailto:nancy.place@jax.org)

**Friday, August 21 (*Highseas*)**

- 12:30 PM** Arrival at Highseas anytime after 12:30 PM for registration  
Poster set-up
- 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., IMCB/A\*STAR, Singapore
- 6:00** **Dinner** (*Highseas*)
- 7:00** Discussion on the Sun Porch

**Saturday, August 22 (*Highseas and GRB Training Lab*)**

- 8:20 AM** **Pathology and histopathology of normal and neoplastic tissue: an overview** Oded Foreman, D.V.M., ACVP, The Jackson Laboratory
- 9:20** **Training Laboratory Use Policy**  
Jennifer Corrigan, M.S., The Jackson Laboratory
- 9:30** *Group B Van Transportation to GRB Training Lab*

**Colony management workshop (Group A) (*Highseas*)**

- **Mouse Genetics and Strain Nomenclature: What's in a Name?**  
Jennifer Corrigan, M.S., The Jackson Laboratory
- Break

- **Practical aspects of using mice in biomedical research: *breeding strategies***  
Dorcas Corrow, B.S., L.A.T.G., The Jackson Laboratory (retired)
- **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

**12:15 PM** *Group B Van Transportation to Highseas*

**12:30 PM** Lunch (*Highseas*)

**1:30** *Group A Van Transportation to GRB Training Lab*

**Colony management workshop (Group B) (*Highseas*)**

**Pathology and necropsy workshop (Group A) (*GRB Training Lab*)**

**4:30** *Group A Van Transportation to Highseas*

**6:00** Dinner (*Highseas*)

**7:00** Discussion with the day's faculty: *working with mice on a mixed or outbred genetic background* (on the Sun Porch)

**Sunday, August 23** (*Highseas*)

## FUNDAMENTALS

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

**9:30** **Experimental design and statistics**  
Michael Festing, Ph.D., University of Leicester (retired)

**10:30** **Break**

**11:00** **Mutagenesis Using ES cells**  
Bill Skarnes, Ph.D., The Sanger Institute

**12:00 PM** Lunch (*Highseas*)

- 1:00      **Strategies for mapping genes involved in metastasis**  
Kent Hunter, Ph.D., NCI
- 2:00      **Harnessing transposons for cancer gene discovery**  
Neal G. Copeland, Ph.D., IMCB/A\*STAR, Singapore
- 3:00      **Break**
- 3:30      **Humanized mouse models for cancer research**  
Leonard Shultz, Ph.D., The Jackson Laboratory
- 6:00      **Dinner (*Highseas*)**
- 7:00      **Discussion with day's Faculty (*on the Sun Porch*)**

**Monday, August 24**    (*CC Little Auditorium*)

8:15 AM      *Van Transportation to Main Lab*

**Cancer Progression**

- 8:30      **Mechanisms of malignant progression**  
Robert Weinberg, Ph.D., Whitehead Institute
- 10:00      **Break**
- 10:15      **Cancer treatment strategies**  
David Tuveson, M.D. Ph.D., Cancer Research UK Cambridge Research Institute
- 11:15      **Tumor Angiogenesis And Microenvironment**  
Rakesh Jain, Ph.D., Harvard Medical School
- 12:15 PM    **Lunch (*Roscoe's*)**  
*Discussion with the day's faculty over lunch in Roscoe's*

**BIOINFORMATICS**

- 1:30      **What the genomics of normal development can tell us about cancer**  
Carol Bult, Ph.D., The Jackson Laboratory
- Integrated Approaches to Deciphering Biological Function**  
Olga Troyanskaya, Ph.D., Princeton University

5:30 *Van Transportation to Highseas*

6:00 **Lobster Dinner (*Highseas*)**

**Tuesday, August 25 (*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 **Genome dynamics in tumorigenesis**  
Thomas Ried, M.D., Ph.D., National Cancer Institute

12:00 PM **Lunch (*Roscoe's*)**  
***Discussion with the day's faculty over lunch in Roscoe's***

1:30 *Van Transportation to Highseas*  
**Free afternoon- hike or bike**

6:00 **Dinner (*Highseas*)**

**Wednesday, August 26 (*CC Little Auditorium*)**

8:15 AM *Van Transportation to Main Lab*

**PATHWAYS TO CANCER DEVELOPMENT**

8:30 **Viruses and cancer**  
Tatyana Golovkina, Ph.D., University of Chicago

9:30 **Epigenetics and cancer**  
Andrew Feinberg, M.D., M.P.H., Johns Hopkins University

10:30 **Break**

11:00 **Modeling the Ras Pathway in Cancer**  
Karen Cichowski, Ph.D., Harvard University

- 12:00 PM    Lunch (*Roscoe's*)
- 1:30        **Stem cells in colorectal cancer**  
Nick Barker, Ph.D., Netherlands Institute for Developmental Biology
- 2:30        **Pathogenesis of cancer**  
Tak Mak, Ph.D., University of Toronto
- 3:30        **Break**
- 4:00        **Fueling cancer growth**  
Craig Thompson, M.D., University of Pennsylvania
- 5:30        *Van Transportation to Highseas*
- 6:00        Dinner (*Highseas*)
- 7:00        **Discussion with the day's faculty** (*on the Sun Porch*)

**Thursday, August 27** (*CC Little Auditorium*)

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

**MECHANISMS OF CARCINOGENESIS**

- 8:30        **Cancer Immunoediting**  
Robert Schreiber, Ph.D., Washington University
- 9:30        **Translation approaches to studying leukemogenesis**  
Kevin Shannon, M.D., UCSF
- 10:30       **Break**
- 11:00       **Genomic instability and cancer**  
Kevin Mills, Ph.D., The Jackson Laboratory
- 12:00 PM   **Lunch** (*Roscoe's*)
- 1:00        **Zebrafish Models to Dissect Human Cancer Pathways**  
Thomas Look, M.D., Dana Farber Cancer Institute
- 2:00        **Genomic stability and telomerase**  
Rick Maser, Ph.D., The Jackson Laboratory
- 3:00        **Break**

- 3:30**            **Genetic background, environment and cancer phenotypes**  
David Threadgill, Ph.D., North Carolina State University
- 5:30**            *Van Transportation to Highseas*
- 6:00**            **Dinner (*Highseas*)**
- 7:00**            **Discussion with day's faculty** (*on the Sun Porch*)

**Friday, August 28**    (***CC Little Auditorium***)

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

**TRANSLATION**

- 8:30**            **Personalized medicine**  
Raju S. Kucherlapati, Ph.D., Harvard Medical School
- 9:30**            **Proteomic approaches to identifying new cancer markers**  
Samir Hanash, M.D., Ph.D., Fred Hutchison Cancer Research Center
- 10:30**          **Break**
- 11:00**          **EGFR Pathways and Cancer**  
Pasi Antero Janne, M.D., Ph.D., Harvard University
- 12:00 PM**      **Lunch (*Roscoe's*)**
- 1:30**            **Translational Aspects of Modeling Human Cancer in Mice: pre-clinical trials**  
Eric Holland, M.D., Ph.D., Memorial Sloan-Kettering Cancer Center
- 2:30**            **Use of Mouse Models in Cancer Drug Discovery**  
M. Isabel Chiu, Ph.D., AVEO Pharmaceuticals Inc.
- 3:30**            **Break**
- 4:00**            **Integrating Animal Models into Human Cancer Research**  
Cheryl Marks, Ph.D., NCI
- 5:00**            *Van Transportation to Highseas*
- 6:00**            **Lobster dinner (*Highseas*)**
- 7:00**            **Discussion with day's Faculty** (*on the Sun Porch*)

**Saturday, August 29** (*Highseas and Physiology Core Lab*)

- 8:15 AM**      **Modalities for imaging mice in vivo: an overview**(*Highseas*)  
Anthony Nicholson, B.V.Sc., Ph.D.
- 9:15 AM**      *Group A Van Transportation to Main Lab*
- 9:30**            **Imaging workshop (group A)** (*Physiology core lab*)  
Anthony Nicholson, B.V.Sc., Ph.D.
- From phenotype to gene (and beyond): bioinformatics resources for mouse models of cancer (Workshop) (Group B)** (*Highseas*)  
Carol Bult, Ph.D. , The Jackson Laboratory
- 12:15 PM**      *Group A Van Transportation to Highseas*
- 12:30**            **Lunch** (*Highseas*)
- 1:15**             *Group B Van Transportation to Main Lab*
- 1:30**            **Imaging workshop (Group B)** (*Physiology core lab*)
- Bioinformatics workshop (Group A)** (*Highseas*)
- 4:30**             *Van Transportation to Highseas*
- 6:00**            **Dinner at Highseas**