

## 28<sup>th</sup> Annual Short Course on Experimental Models of Human Cancer

August 15<sup>th</sup> – 24<sup>th</sup>, 2019

Bar Harbor, Maine

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### Thursday, August 15, 2019

Moderator:	Karolina Palucka, M.D, Ph.D.
2:00 pm – 2:15 pm	<b>Course Evaluation Overview</b> <b>Patricia Lech</b> University of Maine, Center for Research and Evaluation
2:15 pm - 3:00 pm	Student Introductions
3:00 pm – 4:00 pm	<b>Inflammation and Cancer: Good Cells Behaving Badly</b> <b>Lisa M. Coussens, Ph.D.</b> Professor and Chairwoman, Department of Cell, Developmental & Cancer Biology Associate Director for Basic Research, Knight Cancer Institute
4:00 pm – 5:00 pm	<b>Exploiting Metabolic Stress in Cancer Treatments</b> <b>Dr. Tak W. Mak, OC, PhD, DSc. (Hons), FRSC, FRS</b> Senior Scientist, Princess Margaret Cancer Centre, University Health Network
5:00 pm – 6:00 pm	<b>Introduction to Clinical Immuno-Oncology</b> <b>Mario Sznol, M.D.</b> Professor of Medicine, Yale University
6:00pm	Trolley From The Jackson Laboratory to Highseas
6:00 pm – 7:00 pm	Happy Hour
7:00 pm	Dinner <i>Highseas</i>

### Friday, August 16, 2019

Moderator:	TBD
7:45 am – 8:30 am	Faculty & Moderator Breakfast

*Roscoe's*

8:15 am	Shuttle From Highseas to The Jackson Laboratory
8:30 am – 9:30 am	<b>Genomic Biology of Triple Negative Breast Cancer</b> <b>Edison Liu, M.D.</b> President & CEO, The Jackson Laboratory
9:30 am – 10:30 am	<b>Disseminated Tumor Cell Dormancy and Therapeutic Resistance</b> <b>Cyrus Ghajar, Ph.D.</b> Assistant Member, Fred Hutchinson Cancer Research Center
10:30 am – 11:00 am	Break
11:00 am – 12:00 pm	<b>Role of Adult Stem Cell Niches and Primed Pluripotency Programs in Early DCC Dormancy</b> <b>Julio A. Aguirre-Ghiso, MSc, Ph.D.</b> Professor, Icahn School of Medicine at Mount Sinai
12:00 pm – 1:00 pm	Lunch <i>Roscoe's</i>
1:00 pm – 2:00 pm	<b>Tumor Exosomes and Exomeres Promote Metastasis and Systemic Disease</b> <b>Haiying Zhang, Ph.D.</b> Assistant Professor of Cell and Developmental Biology in Pediatrics, Cornell Medical College
2:00 pm – 3:00 pm	<b>Q&amp;A Session</b>
3:00 pm	Shuttle From The Jackson Laboratory to Highseas
3:00 pm – 4:30 pm	<b>Optional Workshop: Biomethods</b> <b>Kristin Cough, B.S., LVT, LATg</b> Animal Use Trainer, The Jackson Laboratory
4:30 pm	Shuttle From The Jackson Laboratory to Highseas
6:00 pm	Trolley from Highseas to The Bar Harbor Club
6:15 pm – 7:00 pm	Happy Hour, Free, or Hike
7:00 pm – 9:00 pm	Gala Dinner <i>Bar Harbor Club</i>
9:00pm	Trolley from The Bar Harbor Club to Highseas

**Saturday, August 17, 2019**

Moderator:	Lucas Chang, Ph.D.
7:45 am – 8:30 am	Faculty & Moderator Breakfast <i>Roscoe's</i>

8:15 am	Trolley from Highseas to The Jackson Laboratory
8:30 am – 9:30 am	<b>Induction of Adaptive Immunity</b> <b>Stephanie Eisenbarth, M.D., Ph.D.</b> Associate Professor, Yale School of Medicine
9:30 am – 10:30 am	<b>Long Non-Coding RNA in the Immune System</b> <b>Adam Williams, Ph.D.</b> Assistant Professor, The Jackson Laboratory
10:30 am – 11:00 am	Break
11:00 am – 12:00 pm	<b>Integrative Biology and Omics of T Cell-Dendritic Cell Encounters</b> <b>Bernard Malissen, PhD</b> Director of Center for Immunophenomics, CIML
12:00 pm – 1:00 pm	Lunch <i>Roscoe's</i>
1:00 pm – 2:00 pm	<b>Imaging the Tumor Microenvironment – Many Colors, Lots of Information</b> <b>Chen Zhao, M.D.</b> National Heart, Lung, and Blood Institute
2:00 pm – 3:00 pm	<b>Q&amp;A Session</b>
3:00 pm	Free Evening – Dinner on your own
3:30 pm	Trolley from The Jackson Laboratory to Highseas and Village Green

**Sunday, August 18, 2019**

Moderator:	Jacques Banchereau, Ph.D.
7:45 am – 8:30 am	Faculty & Moderator Breakfast <i>Roscoe's</i>
8:15 am	Trolley from Highseas to The Jackson Laboratory
8:30 am – 9:30 am	<b>Myeloid Cell Determinants of Antitumor Immunity</b> <b>Miriam Merad, M.D., Ph.D.</b> Professor, Oncological Services, Icahn School of Medicine at Mount Sinai
9:30 am – 10:30 am	<b>Innate Lymphoid Cells in Biology</b> <b>Marco Colonna, M.D., Ph.D.</b> Professor of Pathology and Immunology, Washington University School of Medicine
10:30 am – 11:00 am	Break

11:00 am – 12:00 pm	<p><b>Immunologic Checkpoint Blockade: Dissecting Mechanisms and Next Steps</b>  <b>Jedd Wolchock, M.D., Ph.D</b>  Chief, Melanoma and Immunotherapeutics Service, Lloyd J. Old Chair for Clinical Investigation, Memorial Sloan Kettering Cancer Center</p>
12:00 pm – 1:00 pm	<p>Lunch  <i>Roscoe's</i></p>
1:00 pm – 2:00 pm	<p><b>Mechanisms of Autoimmunity and Autoinflammation</b>  <b>Virginia Pascual, M.D.</b>  Director, Gale and Ira Drukier Institute for Children's Health, Weill Cornell Medicine</p>
2:00 pm – 3:00 pm	<p><b>Influence of the Microbiota on Local and Systemic Immunity</b>  <b>Dan R. Littman, M.D., Ph.D.</b>  Investigator, Howard Hughes Medical Institute; Kimmel Professor of Molecular Immunology; Skirball Institute of Biomolecular Medicine  New York University School of Medicine</p>
3:00 pm – 3:30 pm	<p>Break</p>
3:30 pm – 4:30 pm	<p><b>Reverse Translational Studies to Guide Anti-PD-1 Cancer Combination Strategies in the Clinic</b>  <b>Elaine Pinheiro, Ph.D.</b>  Principal Scientist, In Vivo Pharmacology, Merck</p>
4:30 pm – 5:30 pm	<p><b>Q&amp;A Session</b></p>
5:45 pm	<p>Trolley from The Jackson Laboratory to Highseas</p>
6:00 pm – 7:00 pm	<p>Happy Hour</p>
7:00 pm	<p>Dinner  <i>Highseas</i></p>

**Monday, August 19, 2019**

Moderator:	Olga Anczukow, Ph.D.
7:45 am – 8:30 am	Faculty & Moderator Breakfast <i>Roscoe's</i>
8:15 am	Shuttle from Highseas to The Jackson Laboratory
8:30 am – 9:30 am	<b>Fundamentals of Genomics and Immunogenics</b> <b>Elaine R. Mardis, PhD, FAACR</b> Co-Executive Director, The Institute for Genomic Medicine At Nationwide Children's Hospital
9:30 am – 10:30 am	<b>Alternative RNA Splicing Defects in Cancer: Molecular and Therapeutic Insights From Model Systems</b> <b>Olga Anczukow, Ph.D.</b> Assistant Professor, The Jackson Laboratory
10:30 am – 11:00 am	Break
11:00 am – 12:00 pm	<b>Understanding and Targeting Spliceosomal Gene Mutations in Cancer</b> <b>Omar Abdel-Wahab, M.D.</b> Associate Member, Memorial Sloan Kettering Cancer Center
12:00 pm – 1:00 pm	Lunch
1:00 pm – 2:00 pm	<b>RNA Isoforms in Cancer Diagnosis and Therapy</b> <b>Jacques Banchereau, Ph.D.</b> Professor and Director, Immunological Services, The Jackson Laboratory
2:00 pm – 3:00 pm	<b>Delineating Breast Tumor Evolution and Microenvironment with Single Cell Genomics</b> <b>Nicholas Navin, Ph.D.</b> Associate Professor, University of Texas MD Anderson Cancer Center
3:00 pm	Shuttle from The Jackson Laboratory to Highseas
3:00 pm – 6:30 pm	<b>Optional Workshop: Single Cell (Advance Sign Up Required)</b> <b>Paul Robson, Ph.D.</b> Associate Professor & Director, Single Cell Biology, The Jackson Laboratory <b>Nicholas Navin, Ph.D.</b> Associate Professor, University of Texas MD Anderson Cancer Center
6:30 pm	Trolley from The Jackson Laboratory to The Bar Harbor Regency
6:45 pm	Trolley from Highseas to The Bar Harbor Regency
7:00 pm – 9:00 pm	Poster Session & Buffet Dinner <i>Regency</i>

9:00 pm Trolley from The Bar Harbor Regency to The Jackson Laboratory & Highseas

**Tuesday, August 20, 2019**

Moderator: Mingyang Lu, Ph.D.

7:45 am – 8:30 am Faculty & Moderator Breakfast  
*Roscoe's*

8:15 am Shuttle from Highseas to The Jackson Laboratory

8:30 am – 9:30 am **Clonal Hematopoiesis as a Predisposition Condition in Acute Myeloid Leukemia**  
**Jennifer Trowbridge, Ph.D.**  
Assistant Professor, The Jackson Laboratory

9:30 am – 10:30 am **Opposing Roles of Interferon and Pattern Recognition Receptor Signaling in Cancer and Cancer Immunotherapy**  
**Andy Minn, M.D., Ph.D.**  
Associate Professor of Radiation Oncology, University of Pennsylvania

10:30 am – 11:00 am Break

11:00 am – 12:00 pm **Tumor Suppressor Functions of BRCA1 and BRCA2 at Stalled Replication Forks**  
**Ralph Scully, Ph.D.**  
Professor, Medicine, Harvard Medical School

12:00 pm – 1:00 pm Lunch  
*Roscoe's*

1:00 pm – 3:00 pm **Optional Workshop: Xenografting Techniques (Subcutaneous and Kidney Capsule) (Advance Sign Up Required)**  
**Bonnie Lyons, D.V.M.**  
Associate Veterinarian, The Jackson Laboratory

1:00 pm – 3:00 pm **Optional Workshop: Data Analysis and Resources for Patient-Derived Cancer Models (Advance Sign Up Required)**  
**Jeff Chuang, Ph.D.**  
Associate Professor, The Jackson Laboratory

3:00 pm – 3:30 pm Break

3:30pm – 5:30 pm **Optional Workshop: cBioPortal for Cancer Genomics**  
**Carol Bult, Ph.D.**  
Professor, Knowlton Family Chair, The Jackson Laboratory

5:45 pm Trolley from The Jackson Laboratory to The Bar Harbor Regency

6:00 pm – 7:00 pm Happy Hour

7:00 pm – 9:00 pm Maine Cancer Genomics Institute Dinner – *Regency*

**The Maine Cancer Genomics Initiative—Moving the Needle in Community Genomic Medicine in a Rural State**

**Jens Rueter, MD**

Associate Director for Regional Translational Partnerships, JAX Cancer Center

**Audrey Antov**

Program Director, Maine Cancer Genomics Initiative

9:00 pm Trolley from The Bar Harbor Regency to Highseas

**Wednesday, August 21, 2019**

Moderator: Gary Ren, Ph.D.

7:45 am – 8:30 am Faculty & Moderator Breakfast  
*Roscoe's*

8:15 am Shuttle from Highseas to The Jackson Laboratory

8:30 am – 9:30 am **Modeling Anti-Cancer Immune Responses in Mice**  
**Marcus Bosenberg, M.D., Ph.D.**  
Professor of Dermatology, Pathology, and Immunobiology, Yale

9:30 am – 10:30 am **Imaging a World Beyond Checkpoint: Archetypes of Immunity Across Cancer**  
**Matthew Krummel, Ph.D.**  
Professor, University of California, San Francisco

10:30 am – 11:00 am Break

11:00 am – 12:00 pm **The Impact of Preclinical Models in our Understanding of the Biology and Treatment of Pediatric Cancers**  
**Ching Lau, M.D., Ph.D.**  
Professor, The Jackson Laboratory

12:00 pm – 1:00 pm Lunch  
*Roscoe's*

1:00 pm – 2:00 pm **Normal and Neoplastic Stem Cells** *Presented via Webex*  
**Irving Weissman, M.D.**  
Director, Stanford Institute for Stem Cell Biology and Regenerative Medicine  
Director, Ludwig Center for Cancer Stem Cell Research; Professor of Pathology and of Developmental Biology, Stanford University

2:00 pm – 3:00 pm **Unraveling the Complexity of Drug Resistance in Lung Cancer**  
**Katerina Politi, Ph.D.**  
Associate Professor, Yale

3:00 pm – 4:00 pm **Metabolic and Immune Control of Liver Tumorigenesis**  
**Michael Karin, Ph.D.**  
Distinguished Professor of Pharmacology, University of California, San Diego

4:15 pm Shuttle from The Jackson Laboratory to Highseas

4:30 pm – 5:30 pm **Optional Workshop: Mouse Models of NASH-Related HCC (Advance Sign Up Required)**  
**Michael Karin, Ph.D.**  
Distinguished Professor of Pharmacology, University of California, San Diego

6:15 pm Trolley from The Jackson Laboratory to Highseas

6:15 pm – 7:00 pm Happy Hour

7:00 pm Dinner  
*Highseas*

**Thursday, August 22, 2019**

Moderator: Lenny Shultz, Ph.D.

7:45 am – 8:30 am Faculty & Moderator Breakfast  
*Roscoe's*

8:15 am Shuttle from Highseas to The Jackson Laboratory

8:30 am – 9:30 am **Modeling Cancer in the Mouse and its Therapeutic Implications**  
**Pier Paolo Pandolfi, M.D., Ph.D.**  
Director, Cancer Center & Cancer Research Institute at Beth Israel Deaconess Medical Center & Professor of Medicine and Pathology, Harvard Medical School

9:30 am – 10:30 am **Human Pancreatic Cancer insights from Model Systems**  
**David Tuveson, M.D., Ph.D.**  
Professor, Cold Spring Harbor Laboratory

10:30 am – 11:00 am Break

11:00 am – 12:00 pm Q & A Models

12:00 pm – 1:00 pm Lunch

1:00 pm – 2:00 pm **Emerging Models of Humanized Mice for Cancer Research**  
**Lenny Shultz, Ph.D.**  
Professor, The Jackson Laboratory

2:00 pm – 3:00 pm **Modeling Human T Cell Selection and Type 1 Diabetes**  
**Megan Sykes, M.D.**  
Professor & Director, Columbia Center for Translational Immunology (CCTI), Columbia University

3:00 pm – 3:30 pm Break

3:30 pm – 4:30 pm **Optional Workshop: Humanized Mice**  
**James Keck, Ph.D.**  
Senior Director, Innovation & Product Development, The Jackson Laboratory



4:30 pm Free Evening – Dinner on your own

4:30 pm Shuttle from The Jackson Laboratory to Highseas

**Friday, August 23, 2019**

Moderator: Karolina Palucka, Ph.D. & George Weinstock, Ph.D.

7:45 am – 8:30 am Faculty & Moderator Breakfast  
*Roscoe's*

8:15 am Shuttle from Highseas to The Jackson Laboratory

8:30 am – 9:30 am **Reprogramming the Tumor Microenvironment to Enhance Cancer Treatment: Bench to Bedside**  
**Rakesh K. Jain, Ph.D.**  
A. W. Cook Professor of Radiation Oncology (Tumor Biology), Harvard Medical School  
Director, E.L. Steele Laboratories, Massachusetts General Hospital

9:30 am – 10:30 am **The Anatomy of the Anti-Tumor Immune Response**  
**Amanda Lund, Ph.D.**  
Assistant Professor, Department of Cell, Developmental & Cancer Biology, Knight Cancer Institute, Oregon Health & Science University

10:30 am – 11:00 am Break

11:00 am – 12:00 pm **Structure and Function of Mammalian SWI/SNF Chromatin Remodeling Complexes in Human Cancer**  
**Cigall Kadoch, Ph.D.**  
Principal Investigator, Harvard Medical School, Dana-Farber Cancer Institute, Broad Institute

12:00 pm – 1:00 pm Lunch

1:00 pm – 2:00 pm **The Microbiome, Inflammation and Cancer**  
**Julia Oh, Ph.D.**  
Assistant Professor, The Jackson Laboratory

2:00 pm – 3:30 pm **Optional Workshop: Data Analysis Strategies for Microbiome Profiling**  
**Mark Adams, Ph.D.**  
Director of Microbial Genomic Services, The Jackson Laboratory

2:00 pm – 5:00 pm **Optional Workshop: Necropsy (Advance Sign Up Required)**  
**James Miller**  
Necropsy Technologist II, The Jackson Laboratory

3:30pm – 4:30 pm Q&A – **George Weinstock, Ph.D.**  
Professor, Evnin Family Chair & Director, Microbial Genomics, The Jackson Laboratory

4:30 pm – 5:00 pm	<b>CIPHE Contribution to Genomic and Immunophenomic World-wide Coordinated Programs</b> <b>Ana Zarubica, Ph.D.</b> Chief Operating Officer/Directrice des operations Centre d'Immunophenomique
5:00 pm	Shuttle from The Jackson Laboratory to Highseas
6:45 pm	Trolley from Highseas to Lobster Bake (stopping @ The Regency)
6:50 p m	Trolley from The Bar Harbor Regency to Lobster Bake
7:00 pm – 9:00 pm	Lobster Bake <i>Bar Harbor Lobster Bakes</i>
9:00 pm	Trolley from Lobster Bake to The Bar Harbor Regency and Highseas

**Saturday, August 24, 2019**

Moderator:	Karolina Palucka, Ph.D.
7:45 am – 8:30 am	Faculty & Moderator Breakfast <i>Roscoe's</i>
8:15 am	Trolley from Highseas to The Jackson Laboratory
8:30 am – 9:30 am	<b>Zebrafish Models of Human Cancer for Drug Discovery and Chemical Biology</b> <b>A Thomas Look, MD</b> Dept of Pediatric Oncology, Dana-Farber Cancer Institute Professor of Pediatrics, Harvard Medical School
9:30 am – 10:30 am	<b>Use of Animal Models to Design Strategies to Overcome Resistance to Immune Checkpoint Blockade</b> <b>Taha Merghoub, Ph.D.</b>
10:30 am – 11:00 am	Break
11:00 am – 12:00 pm	<b>Genetically Diverse Mice and Cancer Model Development</b> <b>Laura Reinholdt, Ph.D.</b> Associate Professor, JAX Genetic Resource Science The Jackson Laboratory
12:00 pm – 1:00 pm	Lunch <i>Roscoe's</i>
1:00 pm – 2:00 pm	Poster Prize
2:00 pm	Adjourn
2:00 pm	Trolley from The Jackson Laboratory to Highseas