**Thursday, August 15, 2019**

**Moderator:** Karolina Palucka, M.D, Ph.D.

2:00 pm – 2:15 pm  
**Course Evaluation Overview**  
**Patricia Lech**  
University of Maine, Center for Research and Evaluation

2:15 pm - 3:00 pm  
Student Introductions

3:00 pm – 4:00 pm  
**Inflammation and Cancer: Good Cells Behaving Badly**  
**Lisa M. Coussens, Ph.D.**  
Professor and Chairwoman, Department of Cell, Developmental & Cancer Biology  
Associate Director for Basic Research, Knight Cancer Institute

4:00 pm – 5:00 pm  
**Exploiting Metabolic Stress in Cancer Treatments**  
**Dr. Tak W. Mak, OC, PhD, DSc. (Hons), FRSC, FRS**  
Senior Scientist, Princess Margaret Cancer Centre, University Health Network

5:00 pm – 6:00 pm  
**Introduction to Clinical Immuno-Oncology**  
**Mario Sznol, M.D.**  
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  
*Highseas*

**Friday, August 16, 2019**

**Moderator:** TBD

7:45 am – 8:30 am  
Faculty & Moderator Breakfast
8:15 am  
**Shuttle From Highseas to The Jackson Laboratory**

8:30 am – 9:30 am  
**Genomic Biology of Triple Negative Breast Cancer**  
*Edison Liu, M.D.*  
President & CEO, The Jackson Laboratory

9:30 am – 10:30 am  
**Disseminated Tumor Cell Dormancy and Therapeutic Resistance**  
*Cyrus Ghajar, Ph.D.*  
Assistant Member, Fred Hutchinson Cancer Research Center

10:30 am – 11:00 am  
**Break**

11:00 am – 12:00 pm  
**Role of Adult Stem Cell Niches and Primed Pluripotency Programs in Early DCC Dormancy**  
*Julio A. Aguirre-Ghiso, MSc, Ph.D.*  
Professor, Icahn School of Medicine at Mount Sinai

12:00 pm – 1:00 pm  
**Lunch**  
*Roscoe’s*

1:00 pm – 2:00 pm  
**Tumor Exosomes and Exomeres Promote Metastasis and Systemic Disease**  
*Haiying Zhang, Ph.D.*  
Assistant Professor of Cell and Developmental Biology in Pediatrics, Cornell Medical College

2:00 pm – 3:00 pm  
**Q&A Session**

3:00 pm  
**Shuttle From The Jackson Laboratory to Highseas**

3:00 pm – 4:30 pm  
**Optional Workshop: Biomethods**  
*Kristin Cough, B.S., LVT, LATg*  
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**  
*Bar Harbor Club*

9:00 pm  
**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**  
*Roscoe’s*
8:15 am  
Trolley from Highseas to The Jackson Laboratory

8:30 am – 9:30 am  
**Induction of Adaptive Immunity**  
Stephanie Eisenbarth, M.D., Ph.D.  
Associate Professor, Yale School of Medicine

9:30 am – 10:30 am  
**Long Non-Coding RNA in the Immune System**  
Adam Williams, Ph.D.  
Assistant Professor, The Jackson Laboratory

10:30 am – 11:00 am  
Break

11:00 am – 12:00 pm  
**Integrative Biology and Omics of T Cell-Dendritic Cell Encounters**  
Bernard Malissen, PhD  
Director of Center for Immunophenomics, CIML

12:00 pm – 1:00 pm  
Lunch  
*Roscoe’s*

1:00 pm – 2:00 pm  
**Imaging the Tumor Microenvironment – Many Colors, Lots of Information**  
Chen Zhoa, M.D.  
National Heart, Lung, and Blood Institute

2:00 pm – 3:00 pm  
**Q&A Session**

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  
*Roscoe’s*

8:15 am  
Trolley from Highseas to The Jackson Laboratory

8:30 am – 9:30 am  
**Myeloid Cell Determinants of Antitumor Immunity**  
Miriam Merad, M.D., Ph.D.  
Professor, Oncological Services, Icahn School of Medicine at Mount Sinai

9:30 am – 10:30 am  
**Innate Lymphoid Cells in Biology**  
Marco Colonna, M.D., Ph.D.  
Professor of Pathology and Immunology, Washington University School of Medicine

10:30 am – 11:00 am  
Break
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 11:00 am – 12:00 pm | Immunologic Checkpoint Blockade: Dissecting Mechanisms and Next Steps  
|               | Jedd Wolchock, M.D., Ph.D.                                           |
|               | Chief, Melanoma and Immunotherapeutics Service, Lloyd J. Old Chair for Clinical Investigation, Memorial Sloan Kettering Cancer Center |
| 12:00 pm – 1:00 pm | Lunch  
|               | Roscoe’s                                                               |
| 1:00 pm – 2:00 pm | Mechanisms of Autoimmunity and Autoinflammation  
|               | Virginia Pascual, M.D.                                                |
|               | Director, Gale and Ira Drukier Institute for Children’s Health, Weill Cornell Medicine |
| 2:00 pm – 3:00 pm | Influence of the Microbiota on Local and Systemic Immunity  
|               | Dan R. Littman, M.D., Ph.D.                                           |
|               | Investigator, Howard Hughes Medical Institute; Kimmel Professor of Molecular Immunology; Skirball Institute of Biomolecular Medicine  
|               | New York University School of Medicine                                  |
| 3:00 pm – 3:30 pm | Break                                                                  |
| 3:30 pm – 4:30 pm | Reverse Translational Studies to Guide Anti-PD-1 Cancer Combination Strategies in the Clinic  
|               | Elaine Pinheiro, Ph.D.                                                |
|               | Principal Scientist, In Vivo Pharmacology, Merck                      |
| 4:30 pm – 5:30 pm | Q&A Session                                                            |
| 5:45 pm       | Trolley from The Jackson Laboratory to Highseas                        |
| 6:00 pm – 7:00 pm | Happy Hour                                                            |
| 7:00 pm       | Dinner  
|               | Highseas                                                               |
Monday, August 19, 2019

Moderator: Olga Anczukow, 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 Fundamentals of Genomics and Immunogenics
Elaine R. Mardis, PhD, FAACR
Co-Executive Director, The Institute for Genomic Medicine
At Nationwide Children’s Hospital

9:30 am – 10:30 am Alternative RNA Splicing Defects in Cancer: Molecular and Therapeutic Insights From Model Systems
Olga Anczukow, Ph.D.
Assistant Professor, The Jackson Laboratory

10:30 am – 11:00 am Break

11:00 am – 12:00 pm Understanding and Targeting Spliceosomal Gene Mutations in Cancer
Omar Abdel-Wahab, M.D.
Associate Member, Memorial Sloan Kettering Cancer Center

12:00 pm – 1:00 pm Lunch

1:00 pm – 2:00 pm RNA Isoforms in Cancer Diagnosis and Therapy
Jacques Banchereau, Ph.D.
Professor and Director, Immunological Services, The Jackson Laboratory

2:00 pm – 3:00 pm Delineating Breast Tumor Evolution and Microenvironment with Single Cell Genomics
Nicholas Navin, Ph.D.
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 Optional Workshop: Single Cell (Advance Sign Up Required)
Paul Robson, Ph.D.
Associate Professor & Director, Single Cell Biology, The Jackson Laboratory
Nicholas Navin, Ph.D.
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
Regency
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

3:30 pm – 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 – 9:30 am
Modeling Anti-Cancer Immune Responses in Mice
Marcus Bosenberg, M.D., Ph.D.
Professor of Dermatology, Pathology, and Immunobiology, Yale

8:30 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
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: Humanzied 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 – 10:00 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

10:30 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

3:30 pm – 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  **CIPHE Contribution to Genomic and Immunophenomic World-wide Coordinated Programs**  
Ana Zarubica, Ph.D.  
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 pm  Trolley from The Bar Harbor Regency to Lobster Bake

7:00 pm – 9:00 pm  Lobster Bake  
*Bar Harbor Lobster Bakes*

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  
*Roscoe’s*

8:15 am  Trolley from Highseas to The Jackson Laboratory

8:30 am – 9:30 am  **Zebrafish Models of Human Cancer for Drug Discovery and Chemical Biology**  
*Thomas Look, MD*  
Dept of Pediatric Oncology, Dana-Farber Cancer Institute  
Professor of Pediatrics, Harvard Medical School

9:30 am – 10:30 am  **Use of Animal Models to Design Strategies to Overcome Resistance to Immune Checkpoint Blockade**  
*Taha Merghoub, Ph.D.*

10:30 am – 11:00 am  Break

11:00 am – 12:00 pm  **Genetically Diverse Mice and Cancer Model Development**  
*Laura Reinholdt, Ph.D.*  
Associate Professor, JAX Genetic Resource Science  
The Jackson Laboratory

12:00 pm – 1:00 pm  Lunch  
*Roscoe’s*

1:00 pm – 2:00 pm  Poster Prize

2:00 pm  Adjourn

2:00 pm  Trolley from The Jackson Laboratory to Highseas