

The 33rd Annual Short Course on Experimental Models of Human Cancer

August 4-12, 2024 Bar Harbor, Maine

Schedule of Activities

Sunday, August 4th

Moderator: Brent Berwin, Ph.D., The Jackson Laboratory

3:00 – 5:00 pm	Lodging Check-in for those staying at College of the Atlantic Participants are not permitted to enter College of the Atlantic prior to 3:00 pm. 105 Eden Street, Bar Harbor, ME
3:00 – 5:00 pm	Course Registration Bar Harbor Regency Stone House 123 Eden Street, Bar Harbor, ME (The Bar Harbor Regency is a short walk from College of the Atlantic)
5:00 – 5:15pm	Course Welcome and Introductions Karolina Palucka, M.D., Ph.D., The Jackson Laboratory
5:15 – 6:00 pm	Immune checkpoint blockade therapy for cancer Jedd Wolchok, M.D., Ph.D., Weill Cornell Medical College
6:00 – 6:45 pm	How studies of metabolism have informed understanding of cancer progression Matthew Vander Heiden, M.D., Ph.D., Broad Institute
6:45 – 8:00 pm	Welcome Reception Sponsored by the JAX Cancer Center Bar Harbor Regency Stone House

Monday, August 5th

Moderator: Brent Berwin, Ph.D., The Jackson Laboratory and Jacques Banchereau, Ph.D., Founder, Immunoledge LLC

7:40 am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Impact of the Tumor Microenvironment and Inflammation on Tumor Dormancy and Awakening Lucia Borriello, Ph.D., Fox Chase Cancer Center

9:45 – 10:30 am	Experimental Models in Cancer Neuroscience: A New Hallmark of Cancer Towards Clinical Translation Moran Amit, M.D., Ph.D., MD Anderson Cancer Center
10:30 – 11:00 am	Break
11:00 – 11:45 am	RNA mechanisms in cancer Eric Wang, Ph.D., The Jackson Laboratory
11:45 – 12:30 pm	The role of aging in promoting immune-mediated reactivation from metastatic dormancy Mitchell Fane, Ph.D., Fox Chase Cancer Center
12:30 – 1:30 pm	Lunch with Speakers Roscoe's Café
1:30 – 2:15 pm	Selective Autophagy as a Key Player in Cancer Development Esperanza Arias Perez, Ph.D., Albert Einstein College of Medicine
2:15 – 3:00 pm	Immunotherapy Resistance, mechanisms and strategies Samir Khleif, M.D., Georgetown University
3:00 – 3:15 pm	Break
3:15 – 4:00 pm	Cell context, mutation, microenvironment and ovarian cancer control David Huntsman, M.D., BC Cancer Research Institute
4:00 pm	Transportation from The Jackson Laboratory to College of the Atlantic and The Bar Harbor Regency
4:00 – 5:30 pm	Free time
5:30 – 6:30 pm	Dinner at College of the Atlantic for participants

Tuesday, August 6th

Moderator: Eric Wang, Ph.D., The Jackson Laboratory

7:40am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Replicative senescence and cancer revisited: Metabolic associated steatohepatitis (MASH) generates senescent hepatocytes that serve as hepatocellular carcinoma (HCC) progenitors Michael Karin, Ph.D., UCSD
9:45 – 10:30 am	The textures of the tumor microenvironment: An integrated imaging perspective J. Javier Bravo Cordero, Ph.D., Icahn School of Medicine at Mount Sinai

10:30 – 11:00am	Break
11:00 – 11:45 am	Normalizing the Tumor Microenvironment to Improve Immunotherapy: Bench to Bedside to Biomarkers Rakesh Jain, Ph.D., Harvard Medical School, Massachusetts General Hospital
11:45 – 12:30 pm	Role of stromal cell matrix in the initiation of pancreas cancer David Cheresh, Ph.D., University of California, San Diego
12:30 – 1:30 pm	Lunch with Speakers Roscoe's Cafe
1:30 – 3:30 pm	Workshop: Basic Biomethods for the Use of Murine Cancer Models Biotrain Team, The Jackson Laboratory
3:30 – 5:00 pm	Poster Session Roscoe's Café
5:00 pm	Transportation from The Jackson Laboratory to College of the Atlantic and The Bar Harbor Regency
5:30 – 6:30 pm	Dinner at College of the Atlantic for participants

Wednesday, August 7th

Moderator: Djamel Nehar-Belaid, Ph.D., The Jackson Laboratory

7:40 am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Innate immune receptors in neurodegeneration and cancer: TREM2 and beyond Marco Colonna, Ph.D., Washington University in St. Louis
9:45 – 10:30 am	Challenges and Opportunities at the Crossroads of Cancer and Autoimmunity Virginia Pascual, M.D., Weill Cornell Medical College
10:30 – 11:00 am	Break
11:00 – 11:45 am	Role of the microbiota, immune and peripheral nervous systems in tumor growth and control Dan Littman, M.D., Ph.D., HHMI, NYU School of Medicine
11:45 – 12:30 pm	Imaging the Tumor Microenvironment Ron Germain, M.D., Ph.D., National Institutes of Health
12:30 – 1:30 pm	Lunch with Speakers Roscoe's Café

1:30 – 2:15pm	An Introduction Clinical Cancer Immunotherapy Mario Sznol, M.D., Yale University, Yale Cancer Center
2:15 – 3:00 pm	Modeling Pancreatic Cancer David Tuveson, M.D., Ph.D., Johns Hopkins University
3:00 – 3:15pm	Transportation from The Jackson Laboratory to the Bar Harbor Regency
3:30 – 5:00 pm	Panel Discussion Moderated by Jacques Banchereau, Ph.D., Founder, Immunoledge LLC and Djamel Nehar-Belaid, Ph.D., The Jackson Laboratory The Bar Harbor Regency – Stone House
5:30 – 6:30 pm	Dinner at College of the Atlantic for participants

Thursday, August 8th

Moderator: Brent Berwin, Ph.D., The Jackson Laboratory

7:40 am	Participants to walk from College of the Atlantic to The Bar Harbor Regency
8:00 – 9:00 am	Registration and Breakfast The Bar Harbor Regency – Stone House 123 Eden St, Bar Harbor, ME
9:00 – 9:45 am	Immune checkpoint blockade in preclinical models Taha Merghoub, Ph.D., Weill Cornell Medical College
9:45 – 10:30 am	Macrophage roles in cancer immune suppression Judith Varner, Ph.D., University of California San Diego
10:30 – 11:00 am	Break
11:00 – 11:45 am	Pathologically activated myeloid cells in cancer Dmitry Gabrilovich, M.D., Ph.D., AstraZeneca
11:45 – 12:30 pm	Pre-clinical modeling of anti-cancer immune responses Marcus Bosenberg, M.D., Ph.D., Yale School of Medicine
12:30 – 12:35 pm	Group Photo
12:35 – 2:00 pm	Lunch with Speakers
2:00 – 2:45 pm	Inflammatory Memory and the Opposing Roles of Interferon Signaling in Cancer Immunotherapy Resistance Andy Minn, M.D., Ph.D., University of Pennsylvania
2:45 –3:30 pm	Molecular biomarkers of response and resistance to checkpoint blockade in clinical settings Romain Banchereau, Ph.D., Genentech
3:30 – 4:00 pm	Break

4:00 – 4:45 pm	Advanced Tissue Mapping Technologies Applied to the Human Pancreas Across Lifespan Paul Robson, Ph.D., The Jackson Laboratory
4:45 – 5:30 pm	Free Time
5:30 – 6:30 pm	Dinner at College of the Atlantic for Participants

Friday, August 9th

Moderators: Lucas Chang, Ph.D., The Jackson Laboratory and Brent Berwin, Ph.D., The Jackson Laboratory

7:40 am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Humanized mouse models to pioneer solid tumor research Silke Paust, Ph.D., The Jackson Laboratory
9:45 – 10:30 am	Mitochondrial genome instability as a driver of inflammation in cancer and chemotherapy-related toxicity Phillip West, Ph.D., The Jackson Laboratory
10:30 – 11:00 am	Break
11:00 – 11:45 am	T cells with regulatory function Alma Cepika, M.D., Ph.D., Stanford University
11:45 – 12:30 pm	Rising Stars Talks
	Functional assessment of chemotherapy-induced peripheral neuropathy in rodent models Mario Heles, Ph.D., University of Texas MD Anderson Cancer Center (Dougherty Lab)
	Decoding genetic regulators of cellular quiescence in AML Sakthi Harini Rajendran, Ph.D., The Jackson Laboratory / UConn Health (Wang Lab)
	HMGA2 regulates GPX4 expression and ferroptosis in prostate cancer cells Precious Dike, Ph.D., Morgan State University (Odero-Marah Lab)
12:30 – 1:30 pm	Lunch with Speakers Roscoe's Café

1:30 – 2:00 pm	Rising Stars Talks
	Cytoplasmic localization of RNA-binding proteins promote multi-drug resistance
	Sadik Karma, Ph.D., The Jackson Laboratory / UConn Health (Wang Lab)
	Global Proteomics and Integrative Thermal Proteome Profiling of Hepatic Stellate Cells in Liver Fibrogenesis
	Ian Green, B.S., Indiana University, Simon Cancer Center (Mosley Lab)
2:00 –3:30 pm	Panel Discussion Moderators: Brent Berwin, Ph.D., The Jackson Laboratory and Silke Paust, Ph.D., The Jackson Laboratory
3:30 – 5:30 pm	Workshop: Measuring xenografts Muneer Hasham, Ph.D., The Jackson Laboratory
3:30 pm	Transportation from The Jackson Laboratory to The Bar Harbor Regency and College of the Atlantic is available for those not participating in the workshop.
5:30 pm	Transportation from The Jackson Laboratory to The Bar Harbor Regency and College of the Atlantic.
6:30 – 8:00 pm	JAX Cancer Center Lecture & Dinner Reception featuring Edison Liu, M.D., The Jackson Laboratory The Cancer Concept through the Centuries Bar Harbor Regency – Stone House 123 Eden St, Bar Harbor, ME

Saturday, August 10th

Moderator: Ryan Englander, The Jackson Laboratory

7:40 am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Structure and Function of Mammalian SWI/SNF Chromatin Remodeling Complexes in Health and Disease Siddhant Jain Ph.D., Dana Farber Cancer Institute
9:45 – 10:30 am	Repetitive sequences predispose mammalian genomes to genomic instability Christine Beck, Ph.D., The Jackson Laboratory
10:30 – 11:00 am	Break

11:00 – 11:45 am	Deciphering Cellular Epigenome Heterogeneity and Evolution in Cancer within an Aged Ecosystem Sheng Li, Ph.D., The Jackson Laboratory
11:45 – 12:30 pm	Al and Immunology: Past, Present, and Future John Tsang, Ph.D., MMath, Yale School of Medicine
12:30 – 1:30 pm	Lunch with Speakers Roscoe's Café
1:30 – 2:15 pm	Dissecting the role of tumor-microenvironment interactions in the evolution of diffuse glioma Frederick Varn, Ph.D., The Jackson Laboratory
2:15 – 3:30 pm	Workshop: cBioPortal Carol Bult, Ph.D., The Jackson Laboratory
2:15 pm	Transportation from The Jackson Laboratory to The Bar Harbor Regency and College of the Atlantic available for those not attending the workshop.
3:30 pm	Transportation from The Jackson Laboratory to College of the Atlantic and Bar Harbor Regency for workshop participants.
3:30 pm	Free Time Dinner on your own (No dinner at College of the Atlantic will be served)

Sunday, August 11th

Moderator: Phillip West, Ph.D., The Jackson Laboratory

7:40 am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Studying aging in mice Ron Korstanje, Ph.D., The Jackson Laboratory
9:45 – 10:30 am	The lymphatic system and immune trafficking in cancer Amanda Lund, Ph.D., NYU Grossman School of Medicine
10:30 – 11:00 am	Break
11:00 – 11:45 am	Age related stromal changes drive tumorigenesis Sheila Stewart, Ph.D., Washington University in St. Louis
11:45 – 12:30 pm	Understanding Immune Aging to Improve Breast Cancer Outcomes Sandra McAllister, Ph.D., Brigham & Women's Hospital

12:30 – 1:30 pm	Lunch with Speakers Roscoe's Café
1:30 – 2:15 pm	Understanding and Modeling Cancer in the Context of Old Age Ana Gomes, Ph.D., Moffitt Cancer Center
2:15 – 3:00 pm	Systems immunology to study human immune aging and reduced vaccine responses Duygu Ucar, Ph.D., The Jackson Laboratory
3:00–3:15 pm	Break
3:15 – 4:00 pm	Rising Stars Talks
	Investigating Monocytes in Acute Myeloid Leukemia Daniel Phillips, B.S., O'Neal Comprehensive Cancer Center at UAB (Welner Lab)
	Alternative splicing as a driver of immune dysfunction in lung adenocarcinoma Ryan Englander, M.S., The Jackson Laboratory / UConn Health (Palucka/Anczukow Labs)
	Histological Transformation and Tumor Plasticity in the Lung Eric Gardner, Ph.D., Weill Cornell Medicine (Varmus Lab)
4:00 – 5:30 pm	Panel Discussion Moderators: Phillip West, Ph.D., The Jackson Laboratory and Sheila Stewart, Ph.D., Washington University in St. Louis
5:30 pm	Transportation from The Jackson Laboratory to The Bar Harbor Regency
6:00 – 8:00 pm	Lobster Dinner at the Bar Harbor Regency The Bar Harbor Regency – Stone House

Monday, August 12th

Moderators: Carol Bult, Ph.D., The Jackson Laboratory and Jeff Chuang, Ph.D., The Jackson Laboratory

7:40 am	Transportation from College of the Atlantic to The Jackson Laboratory
7:45 am	Transportation from The Bar Harbor Regency to The Jackson Laboratory
8:00 – 9:00 am	Registration and Breakfast The Jackson Laboratory (600 Main St, Bar Harbor, ME)
9:00 – 9:45 am	Health Disparities and Drug Resistance in Prostate and Breast Cancer Valerie Odero-Marah, Ph.D., Morgan State University
9:45 – 10:30 am	Molecular Epidemiology of Triple Negative Breast Cancer in African American Women Luisel Ricks-Santi, Ph.D., University of Florida

10:30 – 11:00 am	Break
11:00 – 11:45 am	Analysis of Cancer Spatial Data Jeff Chuang, Ph.D., The Jackson Laboratory
11:45 – 12:30 pm	Foundation models for cellular image analysis David van Valen, Ph.D., California Institute of Technology
12:30 – 1:30 pm	Lunch with Speakers Roscoe's Café
1:30 – 3:00 pm	Workshop: PDX Jeff Chuang, Ph.D., The Jackson Laboratory
3:00 – 3:30 pm	Break
3:30 – 5:00 pm	Workshop: Experimenting with the Use of Large-Language Models for biomarker identification and prioritization Damien Chaussabel, Ph.D., The Jackson Laboratory
5:00 pm	Adjourn Closing remarks by Karolina Palucka, M.D., Ph.D., The Jackson Laboratory
5:30 pm	Transportation from The Jackson Laboratory to College of the Atlantic and The Bar Harbor Regency
	Dinner on your own (No dinner at College of the Atlantic will be served)

Tuesday, August 13th

9:00 am Check-out for those staying at College of the Atlantic