Welcome and Opening Remarks
9:00 A.M.

Cancer Metabolism Session
9:00 A.M. – 10:20 A.M.

Chair: Wei-Xing Zong, Ph.D. John L. Colaiuzzi Chair and Professor, Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, the State University of New Jersey, Co-Leader, Cancer Metabolism and Immunology Program, Rutgers Cancer Institute of New Jersey

9:05 A.M. – 9:50 A.M.

Mitochondrial Dynamics Adaptations in Drug-Resistant Acute Myeloid Leukemia
Christina Glytsou, Ph.D.
Assistant Professor, Department of Chemical Biology
Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

Maternal-Offspring Immune Crosstalk
Ai Ing Lim, Ph.D.
Assistant Professor, Department of Molecular Biology, Princeton University
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

9:50 A.M. – 10:20 A.M.

Tumor Respiration Defects Limit the Anabolic Metabolism Required to Suppress Oxidative Stress and Nucleotide Synthesis

Using Microfluidics to Investigate the Effects of Dietary Conditions on Tumor Growth and Cancer Cell Invasion
Molly Brennan, Susan E. Leggett, Maryam Kohram, Carolina Trenado-Yuste, Bharvi M. Chavre, Jasmine E. Hao, Sherry X. Zhang, and Celeste M. Nelson

mTOR Complex 1 Activity Is Elevated In S-Phase And G2 To Promote Entry Into Mitosis And Suppress Autophagy
Jay Joshi, Ariel Lerner, Frank Scallo, Alexander Valvezan

Break
10:20 A.M. – 10:40 A.M.

Tumor Microenvironment and Immunology Session
10:40 A.M. – 12:00 P.M.

Chair: Yibin Kang, Ph.D., Warner-Lambert/Parke-Davis Professor, Department of Molecular Biology, Princeton University, Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

10:40 A.M. – 11:30 P.M.

Stromal Responses to Colon Cancer Initiation
Michael Verzi, Ph.D.
Associate Professor, Department of Genetics, Rutgers, The State University of New Jersey
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

Regulatory Genomics of T Cells in Cancer and Infection
Yuri Priitkyin, Ph.D.
Assistant Professor, Department of Computer Science and the Lewis-Sigler Institute for Integrative Genomics, Princeton University
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

11:30 P.M. – 12:00 P.M.

Modulation of Epithelial Ovarian Cancer Anti-Tumor Immunity by a Novel Cancer Cell-Intrinsic Stress Regulator
Elah-e S. Hosseini, Kristen E. Warrington, Rinkke Kumari, Steven Wang, Kyle K. Payne

A Longitudinal Study Using Spontaneous Melanoma Mouse Model for Assessment of Long-Term Therapeutic Effects
Kevinn Eddy, Anna Fateeva, Mohamad Naser Eddin, Christina Marinario, Anna Chaly, Katie B. Freeman, Jeffrey C. Pelletier, Philip Furmanski, Allen B. Reitz, and Suzie Chen

Hypoxia-Induced Metastatic Reprogramming Through the Suppression of Kdm8 Histone Demethylase Function in Pancreatic Cancer
Pradeep Gunasekaran, Qianqian Wang, Shin-Heng Chiou
Lunch
12:00 P.M. – 1:00 P.M.

Cancer Genomics Session
1:00 P.M. – 2:20 P.M.

Chair: Cristina Montagna, Ph.D., Professor, Department of Radiation Oncology, Rutgers, the State University of New Jersey, Co-Leader, Genomic Instability and Cancer Genetics Program, Rutgers Cancer Institute of New Jersey

1:00 P.M. – 1:50 P.M.

**Complex Cell-Cell Interactions in Pancreatic Cancer**
Subhajyoti De, Ph.D.
Associate Professor, Department of Pathology and Laboratory Medicine, Rutgers, The State University of New Jersey
Member, Genomic Instability and Cancer Genetics Program, Rutgers Cancer Institute of New Jersey

**How to Make Microtubules and Build the Spindle**
Sabine Petry, Ph.D.
Associate Professor, Department of Molecular Biology, Princeton University
Member, Genomic Instability and Cancer Genetics Program, Rutgers Cancer Institute of New Jersey

1:50 P.M. – 2:20 P.M.

**The Paradox of Premature Checkpoint Recovery of Brca/Palb2 Deficient Cells Following Ionizing Radiation-Induced DNA Damage**
Tzeh Keong Foo, Gabriele Vincelli, Srilatha Simhadri, Bing Xia

**Inferring Spatial Tumor Evolution and Allele-Specific Copy Number Aberrations in Spatially Resolved Transcriptomics Data**
Cong Ma, Clara Liu, Siqi Chen, Li Ding, Ben Raphael

**Insulin Transcription Factor Pdx1 Promotes Liver Tumorigenesis**
Chacko Jacob, Tinghan Zhao, X. F. Steven Zheng

Break
2:20 P.M. – 2:40 P.M.

Population Science Efforts to Evaluate and Address Cancer Health Disparities
2:40 P.M. – 4:00 P.M.

Chair: Katie Devine, Ph.D., M.P.H., Associate Professor of Pediatrics, Section Chief of Pediatric Population Science, Outcomes, and Disparities Research, Pediatric Hematology/Oncology, Rutgers Cancer Institute of New Jersey

2:40 P.M. – 3:30 P.M.

**Uses and Misuses of “Race” in Research on Cancer Health Disparities**
Hari Iyer, ScD
Assistant Professor of Medicine, Rutgers, the State University of New Jersey
Member, Cancer Prevention and Control Program, Rutgers Cancer Institute of New Jersey

**Sexual Minority Women: A Priority Population for Tobacco Control Research and Programs**
Ollie Ganz, DrPH, MSPH
Assistant Professor of Health Behavior, Society and Policy, Rutgers School of Public Health
Member, Rutgers Cancer Institute of New Jersey

3:30 P.M. – 4:00 P.M.

**Pepsinogen and Helicobacter Pylori: Serum Biomarkers for Gastric Cancer in a Diverse United States Population**
Alexandra Adams, Julie Yang, Sammy Ho, Swarani Sarkar, Fei Wang, Aaron Oh, Dong Jun Yun, Atish Ghandi, Haejin In

Reproducibility of Plasma Metabolome Over 1 Year in A Population-Based Study of Black Breast Cancer Survivors
Bo Qin, Madhir Vyas, Steven C. Moore, Xiaoyang Su, Eileen White, Christine B. Ambrosone, Kitaw Demissie, Chi-Chen Hong, Elisa V. Bandera

**Promoting Informed Approaches in Precision Oncology and Clinical Trial Participation for Black Patients with Cancer: Community-Engaged Development and Pilot Testing of a Digital Intervention**
Anita Y. Kinney, Jinghua An, Jeanne M. Ferrante, Myneka Macenat, Shiridar Ganesan, Shawn V. Hudson, Coral Omene, Harold Garcia

Poster Session: Presentation and Reception
4:00 P.M. – 6:00 P.M.