

**PROGRAM SCHEDULE  
CANCER RESEARCH SYMPOSIUM  
OCTOBER 17, 2023**

***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. Colaizzi 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***

Eduardo Cararo-Lopes, Akshada Sawant, Vrushank Bhatt, Maria Ibrahim, Maria Gomez, F. Shi, C. Chang, X.Su, Shridar Ganesan, Joshua Rabinowitz, Edmund C. Lattime, Jessie (Yanxiang) Guo, Eileen White

***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 Pritykin, 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***

Elaheh S. Hosseini, Kristen E. Warrington, Rinkee 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 Marinaro, 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

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***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.**

***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, Shridar Ganesan, Shawna V. Hudson, Coral Omene, Harold Garcia

***Pepsinogen and Helicobacter Pylori: Serum Biomarkers for Gastric Cancer in a Diverse United States Population***

Alexandra Adams, Julie Yang, Sammy Ho, Srawani 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

***Poster Session: Presentation and Reception***

**4:00 P.M. – 6:00 P.M.**