

PROGRAM SCHEDULE
CANCER RESEARCH SYMPOSIUM
JANUARY 11, 2022

Welcome and Opening Remarks

9:00 A.M.

Eileen White, PhD

Associate Director, Basic Research, Chief Scientific Officer, Deputy Director and Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey, Professor, Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey

Population Science Efforts to Evaluate and Address Cancer Health Disparities

9:05 A.M. – 10:20 A.M.

Chair: Elisa V. Bandera, MD, PhD, Professor, Department of Medicine, Robert Wood Johnson Medical School, Chief, Cancer Epidemiology and Health Outcomes and Co-Leader, Cancer Prevention and Control Program, Rutgers Cancer Institute of New Jersey, Rutgers, The State University of New Jersey

9:05 A.M. – 9:50 A.M.

Yonaira M. Rivera, PhD, MPH,
“Exploring the Role of Social Media in Cancer Health Disparities: Understanding Cancer (Mis)information Engagement among Latino/a Facebook Users”
Assistant Professor, Department of Communication, School of Communication and Information Rutgers, The State University of New Jersey
Member, Cancer Prevention and Control Program, Rutgers Cancer Institute of New Jersey

Antoinette M. Stroup, PhD,
“Leveraging Cancer Surveillance Systems to Uncover and Understand Population Disparities”
Professor of Epidemiology, Department of Biostatistics & Epidemiology, Rutgers School of Public Health
Director, New Jersey State Cancer Registry
Member, Cancer Prevention and Control Program, Rutgers Cancer Institute of New Jersey

Nur Zeinomar, PhD, MPH,
“Association of Pre-Diagnostic Cigarette Smoking and Alcohol Consumption with Mortality in Black Breast Cancer Survivors”
Instructor, Division of Medical Oncology, Section of Cancer Epidemiology and Health Outcomes, Department of Medicine, Robert Wood Johnson Medical School, Rutgers, The State University of New Jersey
Member, Cancer Prevention and Control Program, Rutgers Cancer Institute of New Jersey

9:50 A.M. – 10:20 A.M.

“Multilevel Factors for Adiposity Change in a Population-Based Prospective Study of Black Breast Cancer Survivors”

Kate Kim, Elisa V. Bandera, Baichen Xu, Dhanya Chanumolu, Andrew G. Rundle, Noreen Goldman, Nur Zeinomar, Karen S. Pawlish, Christine B. Ambrosone, Kitaw Demissie, Chi-Chen Hong, Gina S. Lovasi, Bo Qin

“The Influence of Perceived Oncologist Empathy on Disclosure Decision-Making”

Liesl Broadbridge, Kathryn Greene, Maria K. Venetis, Smita C. Banerjee, Lauren E. Lee, Alexandre Buckley de Meritens, Danielle Catona, Katie A. Devine

“Neoadjuvant Chemotherapy in Ovarian Cancer: Racial Disparities in Use and Survival Outcomes”

Saber A. Amin, Soko Setoguchi, Jaya M. Satagopan, Alexandre Buckley de Meritens, Elisa V. Bandera

10:20 A.M. – 10:40 A.M. Break

Cancer Genomics Session

10:40 A.M. – 12:00 P.M.

Chair: Shridar Ganesan, MD, PhD, Professor of Medicine and Pharmacology, Associate Director of Translational Research, Chief, Section of Molecular Oncology, Omar Boraie Chair in Genomic Science, Co-Leader and Member of the Clinical Investigations and Precision Therapeutics Program, Rutgers Cancer Institute of New Jersey, Rutgers Robert Wood Johnson Medical School

10:40 A.M. – 11:30 P.M.

Bing Xia, PhD, ***“Regulation of DNA Replication Kinetics by BRCA2-MCM10 after DNA Damage”***
Professor of Radiation Oncology, Rutgers Robert Wood Johnson Medical School
Member, Genomic Instability and Cancer Genetics Program, Rutgers Cancer Institute of New Jersey

Britt Adamson, PhD, ***“Mapping the Processes of DNA Repair during Genome Editing”***
Assistant Professor, Department of Molecular Biology, Princeton University
Member, Genomic Instability and Cancer Genetics Program, Rutgers Cancer Institute of New Jersey

11:30 P.M. – 12:00 P.M.

“Determining the Role of High Mutation Burden in Exceptional Response to Immunotherapy”

Akshada Sawant, Eduardo Cararo Lopes, Somer Abdelfattah, Zhixian Hu, Fuqian Shi, Saurabh Laddha, Chang Chan, Edmund Lattime, Shridar Ganesan, Eileen White

“Regulation of KU70 Functions through a Novel Methylation in Its C-Terminal SAP Domain”

Yuan Wang, Huimei Lu, Jingmei Liu, Zhiyuan Shen

“Functions of Histone Acetyltransferases KAT2A and KAT2B in Intestinal Homeostasis and Colon Cancer”

Mai-Uyen Nguyen and Michael Verzi

12:00 P.M. – 1:00 P.M. Lunch

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Cancer Metabolism Session

1:00 P.M. – 2:20 P.M.

Chair: Wei-Xing Zong, PhD, John L. Colaizzi Professor, Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Co-Leader and Member of the Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

1:00 P.M. – 1:50 P.M.

Harini Sampath, PhD, *“Regulation of Intestinal and Systemic Health by Delta-9 Desaturases”*
Assistant Professor, Department of Nutritional Sciences; IFNH, School of Environmental and Biological Sciences Rutgers, The State University of New Jersey
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

Zemer Gitai, PhD, *“From Bugs to Drugs and Back”*
Edwin Grant Conklin Professor of Biology, Professor of Molecular Biology, Department of Molecular Biology, Princeton University
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

1:50 P.M. – 2:20 P.M.

“Pyruvate Kinase as a Therapeutic Target in T-ALL”

Luca Tottone, Olga Lancho, Amartya Singh, Xiaoyang Su, Hossein Khiabani, Matthew G. Vander Heiden, Daniel Herranz

“Autophagy Is Disrupted in the Livers of Obese Mice Exposed to Asparaginase”

Brian Zalma, Emily T. Mirek, Tracy G. Anthony

“Increased mtDNA Mutation Burden Limits Tumor Growth and Malignancy in NSCLC”

Eduardo Cararo-Lopes, Akshada Sawant, Vrushank Bhatt, Maria Gomez, Jessie Guo, Xiaoyang Su, Edmund Lattime, Chan Chang, Shridar Ganesan, Eileen White

2:20 P.M. – 2:40 P.M. Break

Tumor Microenvironment Session

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

2:40 P.M. – 4:00 P.M.

Pat Gulhati, MD, PhD, *“Effective Combinatorial Immuno-therapy for Pancreatic Ductal Adenocarcinoma”*
Assistant Professor of Medical Oncology, Rutgers Robert Wood Johnson Medical School, Associate Member, Clinical Investigations and Precision Therapeutics Program, Rutgers Cancer Institute of New Jersey

Celeste M. Nelson, PhD, *“The Mechanical Microenvironment and Cancer Cell Phenotype”* Wilke Family Professor in Bioengineering, Princeton University
Member, Cancer Metabolism and Growth Program, Rutgers Cancer Institute of New Jersey

3:30 P.M. – 4:00 P.M.

“Stromal Regulation of Intestinal Tumor Initiation Mediated by Hyperactive WNT Activity in the Epithelium”

Oscar Pellón-Cárdenas, Jay Patel, Alexandra Logerfo, Sohaib Hassan, Isha Patel, Michael Verzi

“SOX9 Promotes Tumorigenesis in the KRAS^{G12D} Lung Cancer Mouse Model through Increasing Cancer Cell Proliferation and Suppressing T Cell Function”

Hua Zhong, Gregory Riedlinger, Jessie Yanxiang Guo, Hatem Sabaawy, Sharon Pine

Poster Session

4:00 P.M. – 5:30 P.M.

“Vaccine Confidence and HPV Vaccination in NJ”

Racquel E. Kohler, Rachel Wagner, Baichen Xu, Anita Y. Kinney, Rula Btoush, Kathryn Greene, Leslie M. Kantor

“Mammography Adherence and Breast Cancer Stage”

Tina Dharamdasani, Jaya M. Satagopan

“The Use of Intraoperative Ultrasound during Breast Conserving Surgery”

Kelly Krupa, Shicha Kumar, Firas Eladoumikhachi, Maria Kowzun

“Diagnosis, Management and Surveillance for Patients with PALB2, CHEK2 and ATM Gene Mutations”

Kelly Krupa, Maria Kowzun, Lindsay Potdevin, Shicha Kumar

“Comparison of Breast Cancer Treatment Quality Metrics and Breast Conservation Rates between Arabic Middle Eastern and Caucasian Women Using the Mastery of Breast Surgery Registry”

Kelly Krupa, Firas Eladoumikhachi, Maria Kowzun, Dirk Moore

“Ethnic Enclaves, Socioeconomic Status and Associations with Obesity among Latinas”

Carola Sanchez Diaz, Garth Rauscher, Laura Fejerman, Caryn Peterson, Marian Fitzgibbon

“Patients’ Reports of Time Alone with Oncology Providers: Influences of Support Persons’ Presence on Patients’ Disclosure during Consultations”

Lauren Lee, Kathryn Greene, Maria K. Venetis, Smita Banerjee, Alexandre Buckley de Meritens, Katie A. Devine

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“Cardiovascular Health among Black Breast Cancer Survivors”

Riddhi Babel, Elisa Bandera, Yong Lin, Nur Zeinomar, Kitaw Demissie, Chi-Chen Hong, Bo Qin

“Reconstructing the Architecture of Cell-Cell Interaction Network in Vivo Using Neighbor-Seq”

Subhajyoti De, Bassel Ghaddar

“Delineating Cell State Heterogeneity in Bladder Cancer”

Antara Biswas, Xiaoju Hu, Sivasomasundari Arunarasu, Subhajyoti De

“Genomic Markers of Response to Neoadjuvant Carboplatin and Liposomal Doxorubicin Treatment in Triple Negative Breast Cancer”

Xiaoju Hu, Nancy Chan, Gregory Riedlinger, Seema Husain, Deborah Toppmeyer, Subhajyoti De, Shridar Ganesan

“Validating Oncotype Dx Recurrence Score on Sequenced Gene Expressions of Primary Breast Cancer Tumors”

Benny Tran, Jaya M. Satagopan

“Identification of Sialic Acid Biosynthesis as a Tumor Suppressive Pathway in Hematological Malignancies”

Namratha Sheshadri, Rongrong Li, Jianliang Shen, Kevin Lu, Zhiyuan Shen, Wei-Xing Zong

“HCK Is a Novel Oncogenic Driver of Poor-Prognostic HGSOc”

Christen Khella, Lucyann Franciosa, Lorna Rodriguez-Rodriguez, Michael L. Gatzka

“Hepatitis B Virus Integrations Drive Hepatocellular Carcinoma”

Jian Cao

“Single-Cell RNA Analysis of Human and Mouse PNETs Reveals Similar Patterns of MHC Class I Gene Expression in Neuroendocrine Cells”

Fuqian Shi, Ziqiang Yuan, Saurabh V Laddha, Joshua Vieth, Steven Libutti, Chang Chan

“Systemic Metabolic Dysregulation Underlying Cancer-Associated Cachexia”

Maria Lucia Gomez, Eduardo Cararo Lopes, Maria Ibrahim, Zhixian Sherrie Hu, Emily Mirek, Tracy Anthony, Eileen White

“Failure of Nitrogen Waste Handling Promotes mTORC1 Activation and Liver Cancers Driven by Beta-Catenin Mutations”

Weiwei Dai, Jianliang Shen, Junrong Yan, Alex J. Bott, Sara Maimouni, Xiaoyang Su, Wen-Xing Ding, Xin Chen, Wei-Xing Zong

“Arginine Metabolism Confers Metabolic Vulnerability in PDAC”

Junrong Yan, Sara Maimouni, Heineken Queen Daguplo, Jianliang Shen, Eric Chiles, Luke Torre-Healy, Yun Jae Yoo, Xiaoxuan Lu, Costas Lyssiotis, He Wang Wang, Richard Moffitt, Xiaoyang Su, Wei-Xing Zong

“ACLY as a Novel Therapeutic Target in T-Cell Acute Lymphoblastic Leukemia (T-ALL)”

Patricia Renck Nunes, Olga Lancho, Maria Victoria da Silva Diz, Amartya Singh, Xiaoyang Su, Hossein Khiabani, Kathryn E. Wellen, Daniel Herranz

“Cell Cycle Control of the Master Metabolic Regulator mTOR Complex 1”

Frank Scalzo, Alexander Valvezan

“The Role of Ketogenic Diet in Kras-Mutant Lung Tumorigenesis”

Fawzi Alogaili, Jessie Yanxiang Guo, Taijin Lan, Vrushank Bhatt

“Cell-Autonomous and Cell-Extrinsic Epigenetic Modulation of Breast Cancer Cells Facilitate Dormancy in Bone Marrow”

Alejandra I. Ferrer, Garima Sinha, Oleta Sandiford, Pranela Rameshwar

“MASL Targets the PDPN Receptor on OSCC Cells to Inhibit Tumor Cell Motility, Viability, and Oncogenic Transcriptional Signaling Pathways”

Tyler J. Hellmig, Eamonn J. Brace, Kelly L. Hamilton, Clinton A. Timmerman, Edward P. Retzbach, Stephanie A. Sheehan, Katarzyna Jachimowska, Premalatha Balachandran, Yukinari Kato, Alan J. Shienbaum, David I. Suster, Eugenio M. Capitle, Evelyne Kalyoussef, Dylan Roden, Soly Baredes, Mahnaz Fatahzadeh, Gary S. Goldberg

“Role of Phosphatidylserine Scramblases in Tumor Progression”

Varsha Gadiyar, Viralkumar Davra, David Calianese, Kevin Lahey, Raymond Birge

“Exploring the Conversation between Oncogenic Epithelium and Sub-Epithelial Mesenchyme in the Intestine”

Alexandra Logerfo, Oscar Pellon-Cardenas, Sohaib Hassan, Jay Patel, Michael Verzi

“Epithelium and Mesenchyme Crosstalk during Tumorigenesis”

Sohaib Hassan, Oscar Pellon-Cardenas, Kevin Tong, Uyen Nguyen, Daniel Wagner, Michael Verzi

“Cancer Genetic Risk Assessment Intentions in a Tailored Risk Communication Intervention Randomized Controlled Trial”

Circe J. Gray Le Compte, Scott T. Walters, Deb Toppmeyer, Tawny W. Boyce, Shou-En Lu, Antoinette Stroup, Lisa Paddock, Sherry Grumet, Yong Lin, Julianne Ani, Emily Heidt, Anita Y. Kinney

“Cyclin C Suppresses Pancreatic Interductal Neoplasia and Neural Endocrine Neoplasia Progression in a Murine Kras Model”

Kathy Qi Cai, Sara Hanley, David C. Stieg, Andre-Klein Santos, Kerry S. Campbell, Randy Strich

“Princeton University Flow Cytometry Resource Facility”

Christina DeCoste, Katherine Rittenbach