

PROGRAM SCHEDULE

*The 2016 Annual Retreat on Cancer Research in New Jersey
Rutgers College Avenue Student Center, 126 College Avenue, New Brunswick, NJ*

May 26, 2016

- 8:30 A.M. - 10:00 A.M.** **Breakfast and Registration (Main Lounge)**
- 8:30 A.M. - 9:30 A.M.** **All posters set up (Main Lounge)**
- 9:00 A.M. - 11:15 A.M.** **Public Forum - *Cancer Survivors: Advancing Care through Research* (Graduate Student Lounge)**
- 9:30 A.M. - 11:15 A.M.** **Poster Session (All Authors Present; Main Lounge)**
- 11:15 A.M. - 11:30 A.M.** **Welcome (Multi-Purpose Room)**
- Bruce G. Haffty, MD**
Chair, Radiation Oncology
Rutgers Robert Wood Johnson Medical School and Rutgers New Jersey Medical School
Interim Director
Rutgers Cancer Institute of New Jersey
- Cathleen D. Bennett**
Acting Commissioner
New Jersey Department of Health
- 11:30 A.M. - 12:30 P.M.** **Keynote Address (Multi-Purpose Room)**
Evolution of Resistance to Targeted Therapies
- Jeffrey Engelman, MD, PhD**
Professor of Medicine
Harvard Medical School
- 12:30 P.M. - 1:30 P.M.** **Lunch (Food Court)**
- 1:30 P.M. - 4:30 P.M.** **Poster Session Continues**
- 1:30 P.M. - 4:30 P.M.** **Focus Session A (Multi-Purpose Room)**
- 1:30 P.M. - 2:30 P.M.** **Cancer Metabolism and Growth**
- 2:30 P.M. - 3:30 P.M.** **Genome Instability and Cancer Genetics**
- 3:30 P.M. - 4:30 P.M.** **Cancer Pharmacology**
- 1:30 P.M. - 3:30 P.M.** **Focus Session B (411 A, B, C)**
- 1:30 P.M. - 2:30 P.M.** **Clinical Investigations and Precision Therapeutics**
- 2:30 P.M. - 3:30 P.M.** **Cancer Prevention and Control**
- 4:30 P.M.** **End of Program**



PROGRAM SCHEDULE

PUBLIC FORUM

GRADUATE STUDENT LOUNGE, RUTGERS COLLEGE AVENUE STUDENT CENTER

Cancer Survivors: Advancing Care through Research

9:00 A.M. – 11:15 A.M.

9:00 A.M. – 9:05 A.M.

Welcome & Introduction

Sharon L. Manne, PhD

Professor of Medicine

Division of Medical Oncology, Section of Population Science

Rutgers Robert Wood Johnson Medical School

Associate Director for Cancer Prevention, Control and Population Science

Rutgers Cancer Institute of New Jersey

9:05 A.M. – 10:00 A.M.

Keynote Lecture

Alfred I. Neugut, MD, PhD

Associate Director for Population Sciences

Herbert Irving Comprehensive Cancer Center

Myron M. Studner Professor of Cancer Research

Columbia University, New York, NY

10:00 A.M. – 11:00 A.M.

Expert Perspectives

Couple-Focused Group Therapy For Women Diagnosed With Breast Cancer

Sharon L. Manne, PhD

Prostate Cancer Follow-up: Promoting Self-Care After Cancer Treatment Ends

Shawna V. Hudson, PhD

Associate and Chief of Family Medicine and Community Health

Rutgers Robert Wood Johnson Medical School

A Vision for Personalized Care in Cancer Survivorship

Brian D. Gonzalez, PhD

Assistant Professor of Medicine

Rutgers Robert Wood Johnson Medical School

Division of Medical Oncology, Section of Population Science

Rutgers Cancer Institute of New Jersey

11:00 A.M. – 11:15 A.M.

Question and Answer Session

12:30 P.M.

Lunch (Food Court)



Program Sponsor:
Rutgers Cancer Institute of New Jersey

PROGRAM SCHEDULE

FOCUS SESSION A - MULTI-PURPOSE ROOM

Cancer Metabolism and Growth

1:30 P.M. – 2:30 P.M.

Co-Chairs: **Lisa Denzin, PhD**, Associate Professor of Pediatrics, Rutgers Robert Wood Johnson Medical School, Child Health Institute of New Jersey, New Brunswick, NJ
Justin M. Drake, PhD, Assistant Professor of Medicine, Rutgers Robert Wood Johnson Medical School, Division of Medical Oncology, Cancer Biology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(A1) THE PI3-KINASE P110B REGULATES GLUCOSE METABOLISM AND ONCOGENESIS

Jennifer L. DeLeon¹, Yu Sun⁵, Hua Zhong⁵, Wu Song², Laura Hogan³, Richard Lin⁴, Wei-Xing Zong².

¹Department of Biochemistry, ²Applied Mathematics & Statistics, ³School of Medicine and ⁴Physiology and Biophysics, Stony Brook University, Stony Brook, NY; ⁵Department of Chemical Biology, Rutgers, The State University of New Jersey, Piscataway, NJ

(A2) MANIPULATING MITOCHONDRIAL DYNAMICS TO SENSITIZE CANCER CELL LINES TO CHEMOTHERAPEUTIC AGENTS.

Jan Jezek¹, Vidyaramaman Ganesan¹, Amogh Joshi², Antonios Di Cristofano³, Randy Strich¹.

¹Department of Molecular Biology, and ²Department of Medicine, Rowan School of Medicine, Stratford, NJ; ³Albert Einstein Medical School, Bronx, NY

(A3) THE GENOMIC LANDSCAPE OF RENAL ONCOCYTOMA IDENTIFIES A METABOLIC BARRIER TO TUMORIGENESIS

Shilpy Joshi^{1†}, Denis Tolkunov^{1†}, Hana Aviv², Abraham A. Hakimi³, Ming Yao¹, James J. Hsieh⁴, Shridar Ganesan^{1,5}, Chang S. Chan^{1,5*}, Eileen White^{1,6*}.

¹Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ²Department of Pathology & Laboratory Medicine, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ³Department of Surgery, Urology Service, Memorial Sloan Kettering Cancer Center, New York, NY; ⁴Human Oncology and Pathogenesis Program, Memorial Sloan Kettering Cancer Center, New York, NY; ⁵Department of Medicine, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ⁶Department of Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey, Piscataway, NJ; [†]Drs. Joshi and Tolkunov contributed equally to this work. ^{*}Co-corresponding Authors

(A4) DIVERGENT TAM RECEPTOR ACTIVATION CONTROLS NON-REDUNDANT TRANSFORMING ATTRIBUTES IN EPITHELIAL CELLS

Canan Kasikara, Sushil Kumar, Wen-I Tsou, Sergei Kotenko, Raymond B. Birge.

Department of Microbiology, Biochemistry and Molecular Genetics, Rutgers New Jersey Medical School Cancer Center, Newark, NJ

(A5) ADAPTATION TO HISTONE DEACETYLASE INHIBITORS REDUCES CMYC PROTEIN EXPRESSION, REPROGRAMING OF CANCER CELL GENE EXPRESSION AND ATTENUATION OF THE MALIGNANT PHENOTYPE

HsinChing Lin¹, George Wei¹, Diana Vengsarkar¹, Reid Singer¹, Elke Markert², Arnold Rabson^{1,2}.

¹Child Health Institute of New Jersey, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ²Rutgers Cancer Institute of New Jersey, New Brunswick, NJ



PROGRAM SCHEDULE

FOCUS SESSION A - MULTI-PURPOSE ROOM

Genome Instability and Cancer Genetics

2:30 P.M. – 3:30 P.M.

Co-Chairs: **Bing Xia, PhD**, Associate Professor of Radiation Oncology, Rutgers Robert Wood Johnson Medical School, Department of Radiation Oncology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
Michael L. Gatz, PhD, Assistant Professor of Radiation Oncology, Rutgers Robert Wood Johnson Medical School, Department of Radiation Oncology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(A6) DE DIFFERENTIATION OF MATURE INTESTINAL EPITHELIAL CELLS INTO STEM CELLS AND ADENOMAS

Ansu O. Perekatt, Alex Wu, Nick Patel, Vishal Gandhi, Pooja Shah, Lei Cheng, Namit Kumar, Kevin Tong, Siddharth Murali, Qiang Fang, Nan Gao, Michael P. Verzi.
Rutgers Cancer Institute of New Jersey, and Human Genetics Institute of New Jersey, New Brunswick, NJ

(A7) FUNCTIONAL CHARACTERIZATION OF PALB2 N-TERMINAL VARIANTS OF UNCERTAIN SIGNIFICANCE (VUSS) IDENTIFIES TWO LOSS-OF-FUNCTION MUTATIONS AFFECTING THE BRCA1-PALB2 INTERACTION

Tzeh Keong Foo¹, Srilatha Simhadri¹, Marc Tischkowitz², William Foulkes³, Bing Xia¹.
¹Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ²Department of Medical Genetics, University of Cambridge, Cambridge, UK; ³Department of Oncology and Human Genetics, McGill University, Montreal, Canada

(A8) ALTERED EPIGENETIC STATE OF CENTROMERIC CHROMATIN PROMOTES ESCAPE FROM MITOTIC ARREST IN SCHIZOSACCHAROMYCES POMBE CELLS WITH MICROTUBULE DYSFUNCTION

Anuja A. George¹, Nancy C. Walworth^{1,2}.
¹Department of Pharmacology, Rutgers Robert Wood Johnson Medical School, Piscataway, NJ; ²Member, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(A9) ROLE OF PALB2-BRCA1 INTERACTION IN TUMOR SUPPRESSION

Amar Mahdi^{1,2,3}, Yanying Huo^{1,2}, Bing Xia^{1,2}.
¹Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ²Department of Radiation Oncology, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ³Graduate Program in Physiology and Integrative Biology, Graduate School of Biomedical Sciences, Rutgers, The State University of New Jersey, Piscataway, NJ

(A10) THE ROLE OF G9A METHYLTRANSFERASE IN THE DNA REPAIR PATHWAY

Lizahira Rodriguez-Colon^{1,2}, Vasudeva Ginjala¹, Atul Kulkarni¹, Shridar Ganesan¹.
¹Rutgers Cancer Institute of New Jersey and ²Cellular and Molecular Pharmacology Program, Rutgers, The State University of New Jersey, New Brunswick, NJ



PROGRAM SCHEDULE

FOCUS SESSION A - MULTI-PURPOSE ROOM

Cancer Pharmacology

3:30 P.M. – 4:30 P.M.

Co-Chairs: **Suzie Chen, PhD**, Professor of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ
Darren R. Carpizo, MD, PhD, Associate Professor of Surgery, Rutgers Robert Wood Johnson Medical School, Division of Surgical Oncology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(A11) PREVENTING AND TREATING HEPATIC METASTATIC COLON AND PANCREATIC CANCERS BY TARGETING CELL METABOLISM

Amer Alasadi, Jingjing Guo, Hanlin Tao, Shengkan Jin.

Department of Pharmacology, Rutgers Robert Wood Johnson Medical School, Piscataway, NJ

(A12) GLUTAMATE RELEASE INHIBITOR REDUCES EXOSOME RELEASE IN METABOTROPIC GLUTAMATE RECEPTOR 1 (GRM1) EXPRESSING MELANOMA

Allison L. Isola^{1,2}, Suzie Chen^{1,2,3}.

¹Susan Lehman Cullman Laboratory for Cancer Research, Ernest Mario School of Pharmacy and ²Joint Graduate Program of Toxicology, Rutgers, The State University of New Jersey, Piscataway, NJ; ³Rutgers, Cancer Institute of New Jersey, New Brunswick, NJ

(A13) THE ROLE OF CELLULAR ZINC ION HOMEOSTASIS IN THE MECHANISM OF ZINC METALLOCHAPERONES AS MUTANT P53 REACTIVATORS

Samuel Kogan^{1,2}, Xin Yu^{1,3}, Darren Carpizo^{1,3}.

¹Rutgers Cancer Institute of New Jersey, ²Rutgers Robert Wood Johnson Medical School and ³Department of Surgery, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ

(A14) IN VIVO EFFICACY OF THE PAK4 ALLOSTERIC MODULATOR, KPT-9274, AGAINST A TRIPLE NEGATIVE BREAST CANCER MODEL

Chetan K. Rane¹, William Senapedis², Erkan Baloglu², Sharon Shacham², Audrey G. Minden¹.

¹Rutgers, The State University of New Jersey, Piscataway, NJ; ²Karyopharm Therapeutics, Newton, MA

(A15) DEVELOPMENT OF A THERAPY PROTOCOL FOR DRUG RESISTANT OVARIAN CANCER

Siddik Sarkar, Obeid M Malekshah, Arash Hatefi.

Department of Pharmaceutics, Rutgers, The State University of New Jersey, Piscataway, NJ



PROGRAM SCHEDULE

FOCUS SESSION B - 411 A, B, C

Clinical Investigations and Precision Therapeutics

1:30 P.M. – 2:30 P.M.

Co-Chairs: **Rajat Bannerji, MD, PhD**, Associate Professor of Medicine, Rutgers Robert Wood Johnson Medical School, Division of Hematology Oncology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
Andrew Zloza, MD, PhD, Assistant Professor of Surgery, Rutgers Robert Wood Johnson Medical School, Section Chief of Surgical Oncology Research, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(B1) PATIENT STEM CELL (SC)-DERIVED PROSTATE CANCER (PC) ORGANOID (ORG) RECREATE CLONAL HETEROGENEITY OF PC FOCI AND MEASURE THERAPEUTIC RESPONSE POTENTIAL

Monica Bartucci, Anna Ferrari, Isaac Kim, Mark Stein, Joseph Bertino, Hatem Sabaawy.
Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(B2) TUMORS HARBORING SUFFICIENTLY HIGH NON-SYNONYMOUS MUTATION BURDEN ARE LIKELY TO BE SENSITIVE TO IMMUNE CHECKPOINT THERAPY USING PD1 OR CTLA4 BLOCKADE IN 9 SOLID CANCER TYPES

Anshuman Panda^{1,2,3}, Anil Betigeri⁶, Kalyanasundaram Subramanian⁶, Janice M Mehnert^{1,4}, Kim Hirshfield^{1,4}, Lorna Rodriguez-Rodriguez^{1,4}, Gyan Bhanot^{1,3,5*}, Shridar Ganesan^{1,2,4*}.
¹Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ²Rutgers Institute for Quantitative Biomedicine, Piscataway, NJ; ³Rutgers Department of Physics and Astronomy, Piscataway, NJ; ⁴Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ⁵Department of Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey, Piscataway, NJ; ⁶Strand Life Sciences, Bangalore, India; *Corresponding authors

(B3) ASSESSMENT OF THE ALBUMIN-BILIRUBIN (ALBI) GRADE AS A PROGNOSTIC INDICATOR FOR HEPATOCELLULAR CARCINOMA PATIENTS TREATED WITH RADIOEMBOLIZATION

Bin Gui¹, Ashley Weiner², John Noshier³, Shou-en Lu⁴, Parag J. Parikh², Salma K. Jabbour¹.
¹Department of Radiation Oncology, Rutgers Cancer Institute of New Jersey, New Brunswick NJ; ²Department of Radiation Oncology, Washington University School of Medicine, St. Louis, MO; ³Department of Radiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ⁴Department of Biostatistics, Rutgers School of Public Health, Piscataway, NJ

(B4) INTRATUMORAL VACCINATION CAN OVERCOME LOCAL TUMOR BARRIERS TO INTRATUMORAL IMMUNE CELL RECRUITMENT IN A MURINE MODEL OF PANCREATIC DUCTAL ADENOCARCINOMA

Kristen Donohue¹, Crissy Dudgeon^{1,2}, Claude Monken², Edmund Lattime^{1,2}, Darren Carpizo^{1,2,3}
¹Department of Surgery, and ³Department of Pharmacology, Rutgers, Robert Wood Johnson Medical School, New Brunswick, NJ; ²Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(B5) PULMONARY SARCOMATOID CARCINOMA: CLINICAL CHARACTERISTICS AND SURVIVAL

Miguel Gonzalez Velez¹, Narjust Duma¹, Martin Gutierrez².

¹Department of Internal Medicine, Rutgers New Jersey Medical School, Newark, NJ; ²John Theurer Cancer Center, Hackensack University Medical Center, Hackensack, NJ



PROGRAM SCHEDULE

FOCUS SESSION B - 411 A, B, C

Cancer Prevention and Control

2:30 P.M. – 3:30 P.M.

Co-Chairs: **Nanjoo Suh, PhD**, Professor of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ
Katie Devine, PhD, MPH, Assistant Professor of Medicine, Rutgers Robert Wood Johnson Medical School, Division of Medical Oncology, Section of Population Science, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(B6) BMP PATHWAY INHIBITORS MAY PREVENT NEOPLASTIC PROGRESSION OF BARRETT'S EPITHELIUM

Manisha Bajpai^{1,4}, Carlos Minacapelli¹, Anshuman Panda³, John Langenfeld^{2,4}, Gyan Bhanot^{3,4}, Kiron M. Das^{1,4}.
¹Division of Gastroenterology, Department of Medicine and ²Department of Surgery, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; ³Department of Physics, School of Arts and Sciences, Rutgers, The State University of New Jersey, New Brunswick, NJ; ⁴Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

(B7) UNDERSTANDING THE EFFECTS OF AN INFLAMMATORY MILIEU ON THE DEVELOPMENT OF MESENCHYMAL STEM CELLS: IMPLICATION FOR TREATING DORMANT CANCER STEM CELLS

Lauren S. Sherman^{1,2}, Oleta A. Sandiford¹, Nicholas M. Ponzio^{2,3}, Pranela Rameshwar^{1,2}.
¹Department of Medicine, Hematology & Oncology, Rutgers New Jersey Medicine School, Newark, NJ; ²Rutgers Graduate School of Biomedical Sciences and ³Department of Pathology and Laboratory Medicine, Rutgers New Jersey Medical School, Newark, NJ

(B8) FETAL ALCOHOL EXPOSURE INDUCES MICRORNA MIR-9 AND ALTERS DOPAMINE 2 RECEPTOR EXPRESSION BY TARGETING ITS 3' UTR IN THE PITUITARY GLAND

O. Gangisetty, D.K. Sarkar.
Endocrine Research Program, Department of Animal Sciences, Rutgers, The State University of New Jersey, New Brunswick, NJ

(B9) DISPARITIES IN CERVICAL CANCER INCIDENCE AMONG UNINSURED/ UNDERINSURED WOMEN SCREENED THROUGH THE NEW JERSEY CANCER EDUCATION AND EARLY DETECTION PROGRAM

J. Tsui¹, A.A. Llanos^{1,2}, D. Rotter¹, L. Toler^{1,2}, S. Vasanthan³, C. Africa⁴, A.M. Stroup^{1,2,3}.
¹Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ²Rutgers School of Public Health, Piscataway, NJ; ³New Jersey State Cancer Registry and ⁴New Jersey Cancer Education and Early Detection Program, New Jersey Department of Health, Trenton, NJ

(B10) WHY ARE WOMEN UNDER 40 BEING SCREENED FOR BREAST CANCER?

S.A. Navarro Silvera¹, E.V. Bandera^{2,3}, M. Gardner¹, M. Rodriguez¹, K. Demisse^{2,3}.
¹Department of Health and Nutrition Sciences, Montclair State University, Montclair, NJ; ²Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ³Department of Epidemiology, Rutgers School of Public Health, Piscataway, NJ

(B11) ARE WORLD TRADE CENTER RESPONDERS AT INCREASED RISK OF HEAD AND NECK CANCER?

C. Ward¹, J.M. Graber^{1,2}, K. Black¹, G. Harris³, S. German³, I. Udasin^{1,2}.
¹Rutgers Robert Wood Johnson Medical School, ²Rutgers Environmental and Occupational Sciences Health Institute and School of Public Health, Piscataway, NJ; ³New Jersey State Cancer Registry and Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

