

# PROGRAM SCHEDULE

*The 2015 Annual Retreat on Cancer Research in New Jersey  
Rutgers Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ*

***May 20, 2015***

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| <b>7:00 A.M. - 8:00 A.M.</b>   | <b>Breakfast and Registration (Student Lounge)</b>   |
| <b>7:00 A.M. - 8:00 A.M.</b>   | <b>All posters set up (Great Hall)</b>   |
| <b>8:00 A.M. - 10:00 A.M.</b>  | <b>Focus Session A – Cancer Metabolism and Growth &amp; Genome Instability and Cancer Genetics<br/>(Main Lecture Hall)</b>             |
| <b>8:00 A.M. - 10:00 A.M.</b>  | <b>Focus Session B – Cancer Pharmacology Research &amp; Clinical Investigations and Precision Therapeutics<br/>(East Lecture Hall)</b> |
| <b>8:00 A.M. - 10:00 A.M.</b>  | <b>Focus Session C – Cancer Prevention and Control<br/>(West Lecture Hall)</b>   |
| <b>10:00 A.M. - 11:30 A.M.</b> | <b>Poster Session (All Authors Present) &amp; Coffee Break</b>   |
| <b>10:00 A.M. - 11:30 A.M.</b> | <b>Public Forum - <i>Immunotherapy for Cancer</i><br/>(Room 010, Center for Advanced Biotechnology &amp; Medicine)</b>                 |
| <b>11:30 A.M. - 11:35 A.M.</b> | <b>Welcome (Main Lecture Hall)</b>   |

**Robert S. DiPaola, MD**

Director

Rutgers Cancer Institute of New Jersey  
Rutgers Robert Wood Johnson Medical School

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|--------------------------------|---|
| <b>11:35 A.M. - 12:30 P.M.</b> | <b>Keynote Address: (Main Lecture Hall)</b> |
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***Myc, Metabolism and the Pathway to Cancer***

**Chi Van Dang, MD, PhD**

John H. Glick, M.D. Abramson Cancer Center Director's Professor  
Director, Abramson Cancer Center, University of Pennsylvania

# PROGRAM SCHEDULE

*The 2015 Annual Retreat on Cancer Research in New Jersey  
Rutgers Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ*

*May 20, 2015*

<b>12:30 P.M. - 1:00 P.M.</b>	<b>Lunch (Student Lounge)</b>
<b>1:00 P.M. - 4:15 P.M.</b>	<b>Poster Session Continues</b>
<b>1:00 P.M. - 4:15 P.M.</b>	<b>Focus Session D - Cancer Biology Discovery &amp; Translation Symposium (Main Lecture Hall)</b>
<b>1:00 P.M. - 2:30 P.M.</b>	<b>Focus Session E – Cancer Prevention &amp; Control Symposium (East Lecture Hall)</b>
<b>1:00 P.M. - 4:15 P.M.</b>	<b>Focus Session F - Cancer Therapeutics Symposium (West Lecture Hall)</b>
<b>2:30 P.M. - 2:45 P.M.</b>	<b>Coffee Break</b>
<b>4:15 P.M.</b>	<b>End of Program</b>



# PROGRAM SCHEDULE

## FOCUS SESSION A - MAIN LECTURE HALL

### *Cancer Metabolism and Growth & Genome Instability and Cancer Genetics*

**8:00 A.M. – 10:00 A.M.**

**Co-Chairs:** **Wenwei Hu, PhD**, Assistant Professor of Radiation Oncology, Division of Radiation Cancer Biology, Rutgers Robert Wood Johnson Medical School, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

**Lisa Denzin, PhD**, Associate Professor of Pediatrics, Child Health Institute of New Jersey, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ

#### **(A1) INTERCELLULAR SIGNALING THAT MODULATES THE UBIQUITIN PROTEASOME SYSTEM: A DECISIVE STEP IN CANCER PROGRESSION**

Kishore K. Joshi, Tarmie Matlack, Christopher Rongo

The Waksman Institute, Department of Genetics, Rutgers, The State University of New Jersey, Piscataway, NJ

#### **(A2) RECIPROCAL REGULATION OF ABL KINASE BY CRKII Y251 AND ABI1 CONTROLS CELL MOTILITY AND INVASION IN GLIOBLASTOMA**

Sushil Kumar<sup>1</sup>, Leszek Kotula<sup>2</sup>, Raymond B. Birge<sup>1</sup>

<sup>1</sup>Department of Biochemistry and Molecular Biology, Graduate School of Biomedical Sciences, Rutgers, The State University of New Jersey, Newark, NJ;

<sup>2</sup>Department of Biochemistry and Molecular Biology, SUNY Upstate Medical University, New York, NY

#### **(A3) SPECIFIC DELETION OF TRAF3 IN MYELOID CELLS LEADS TO SPONTANEOUS INFLAMMATION AND TUMOR DEVELOPMENT IN MICE**

Almin I. Lalani<sup>1,2</sup>, Chang Luo<sup>1</sup>, Herbert C. Morse III<sup>3</sup>, Ping Xie<sup>1,4</sup>

<sup>1</sup>Department of Cell Biology and Neuroscience and <sup>2</sup>Graduate Program in Molecular Biosciences, Rutgers, The State University of New Jersey, Piscataway, NJ;

<sup>3</sup>Laboratory of Immunopathology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD; <sup>4</sup>Member, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

#### **(A4) Glutamine Metabolism/deprivation Regulates Transcription-coupled Alternative Splicing of a Subset of Cancer-Associated Genes**

Jia Shi, Michael Seiler, Gyan Bhanot, Kirk Pabon, Barton Kamen, Kathleen W. Scotto

Rutgers Cancer Institute of New Jersey and Department of Pharmacology, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ

#### **(A5) NOVEL, ALTERNATIVELY SPLICED ISOFORMS OF THE NOTCH SIGNALING EFFECTOR, RBP-JK/CSL, REGULATE KAPOSÍ'S SARCOMA-ASSOCIATED HERPESVIRUS REACTIVATION**

Olga D. Gonzalez-Lopez, Eliezer Rovira, Nicolle A. Rosa, Diana Palmeri, David M. Lukac

Department of Microbiology, Biochemistry and Molecular Genetics, and Graduate School of Biomedical Sciences, Rutgers Biomedical and Health Sciences, Rutgers, The State University of New Jersey, Newark NJ

#### **(A6) ACCELERATING THE EMERGENCE OF CHEMOTHERAPY RESISTANCE AND THE ROLE OF ANCIENT MUTATION COLD SPOTS**

Amy Wu<sup>1</sup>, Qiucen Zhang<sup>2</sup>, Guillaume Lambert<sup>3</sup>, Zayar Khin<sup>4</sup>, Robert A. Gatenby<sup>4</sup>, Hyungsung Kim<sup>5</sup>, Nader Pourmand<sup>5</sup>, Kimberly Bussey<sup>6</sup>, Paul Davies<sup>6</sup>, James C. Sturm<sup>1</sup>, Robert H. Austin<sup>7</sup>

<sup>1</sup>Princeton Institute for the Science and Technology of Materials, Department of Electrical Engineering, Princeton University, Princeton, NJ; <sup>2</sup>Department of Physics, University of Illinois at Urbana-Champaign, Urbana, IL; <sup>3</sup>Department of Molecular Genetics and Cell Biology, University of Chicago, Chicago, IL; <sup>4</sup>Moffitt Cancer Center, Tampa, FL; <sup>5</sup>Department of Bioengineering, University of California at Santa Cruz, Santa Cruz, CA; <sup>6</sup>Beyond Center for Fundamental Concepts in Science, Arizona State University, Tempe, AZ; The Biodesign Institute, Arizona State University, Tempe, AZ; <sup>7</sup>Department of Physics, Princeton University, Princeton, NJ

#### **(A7) E3 UBIQUITIN LIGASE TRIM32 NEGATIVELY REGULATES TUMOR SUPPRESSOR P53 TO PROMOTE TUMORIGENESIS**

Cen Zhang, Juan Liu, Xiaolong Wang, Phoung Ly, Zhaohui Feng

Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

#### **(A8) SUPEROXIDE DISMUTASE 1 ACTS AS A NUCLEAR TRANSCRIPTION FACTOR TO REGULATE OXIDATIVE STRESS RESISTANCE**

Chi Kwan Tsang, Yuan Liu, Janice Thomas, Yanjie Zhang, X.F.S. Zheng

Rutgers Cancer Institute of New Jersey, New Brunswick, NJ



# PROGRAM SCHEDULE

## FOCUS SESSION B - EAST LECTURE HALL

### *Cancer Pharmacology Research & Clinical Investigations and Precision Therapeutics*

**8:00 A.M. – 10:00 A.M.**

**Co-Chairs:** **Suzie Chen, PhD**, Professor, Department of Chemical Biology, Susan Lehman Cullman Laboratory for Cancer Research, Ernest Mario College of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ

**Kim M. Hirshfield, MD, PhD**, Assistant Professor of Medicine, Division of Medical Oncology, Rutgers Robert Wood Johnson Medical School, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

#### **(B1) SYNERGISTIC ANTI-TUMOR ACTIVITY OF THE NOTCH GAMMA SECRETASE INHIBITOR BMS-906024 AND PACLITAXEL IN THE TREATMENT OF LUNG ADENOCARCINOMA**

Katherine M. Morgan<sup>1</sup>, Francis Lee<sup>2</sup>, Erin Michaud<sup>2</sup>, Joseph R. Bertino<sup>1</sup>, Bruce S. Fischer<sup>2</sup>, Sharon R. Pine<sup>1</sup>

<sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Bristol-Myers Squibb, Princeton, NJ

#### **(B2) IDENTIFICATION OF A NON-GATEKEEPER HOTSPOT FOR DRUG-RESISTANT MUTATIONS IN MTOR KINASE**

Xiaowen Wang<sup>1,2</sup>, Tzung-Ju Wu<sup>1,2</sup>, Yanjie Zhang<sup>1</sup>, Linghua Meng<sup>1</sup>, John E. Kerrigan<sup>1</sup>, Stephen K. Burley<sup>3</sup>, X. F. Steven Zheng<sup>1</sup>

<sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>The Graduate Program in Molecular and Cellular Pharmacology, Rutgers, The State University of New Jersey, Piscataway, NJ; <sup>3</sup>Rutgers Center for Integrated Proteomic Research, Rutgers, The State University of New Jersey, Piscataway, NJ

#### **(B3) RILUZOLE EFFECTIVELY MODULATES CELL CYCLE AND CELL DEATH IN A MOLECULARLY DIVERSE SET OF BREAST CANCER CELL LINES**

Sonia C. Dolfi, Daniel J. Medina, Shridar Ganesan, Alexei Vazquez, Kim M. Hirshfield

Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

#### **(B4) REGULATION OF AUTOPHAGY BY THE DRUG RESISTANCE TRANSPORTER ABCG2**

Rui Ding, Shengkan Jin, Kathleen W. Scotto

Rutgers Cancer Institute of New Jersey and Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ

#### **(B5) MULTIPLEX QUANTIFICATION OF NOVEL URINARY BIOMARKERS FOR SUBCLINICAL NEPHROTOXICITY IN ONCOLOGY PATIENTS TREATED WITH CISPLATIN**

Blessy George<sup>1,2</sup>, Xia Wen<sup>2</sup>, Lucas Ellison<sup>3</sup>, Nickie Johnston<sup>3</sup>, Melanie S. Joy<sup>3</sup>, Lauren M. Aleksunes<sup>2</sup>

<sup>1</sup>Joint Graduate Program in Toxicology and <sup>2</sup>Department of Pharmacology & Toxicology, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway NJ; <sup>3</sup>Department of Pharmaceutical Sciences, University of Colorado, Aurora, CO

#### **(B6) ENHANCEMENT OF CYTARABINE THERAPY OF AML BY A DIFFERENTIATION AGENT COMBINATION**

X Wang, M Fang, V Patel, G P Studzinski

Department of Pathology & Laboratory Medicine, Rutgers New Jersey Medical School, Newark, NJ

#### **(B7) INHALATION TREATMENT OF LUNG CANCER: THE INFLUENCE OF COMPOSITION, SIZE AND SHAPE OF NANOCARRIERS ON THEIR LUNG ACCUMULATION AND RETENTION.**

O Garbuzenko<sup>1</sup>, G Mainelis<sup>2,3</sup>, O Taratula<sup>1</sup>, T Minko<sup>1,3,4</sup>

<sup>1</sup>Departments of Pharmaceutics and <sup>2</sup>Environmental Sciences, and <sup>3</sup>Environmental and Occupational Health Sciences Institute, Rutgers, The State University of New Jersey, Piscataway, NJ; <sup>4</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

#### **(B8) RESPONSE OF CANCER CELLS TO GENOMICALLY-GUIDED THERAPY TARGETING RET OR MYC**

Martine van Voorthuysen, Bhavna Paratala, Sonia C. Dolfi, Kim M. Hirshfield

Rutgers Cancer Institute of New Jersey, New Brunswick, NJ



# PROGRAM SCHEDULE

## FOCUS SESSION C - WEST LECTURE HALL

### *Cancer Prevention and Control*

**8:00 A.M. – 10:00 A.M.**

**Co-Chairs:** **Katie Devine, PhD, MPH**, Assistant Professor of Medicine, Division of Medical Oncology, Section of Population Sciences, Rutgers Robert Wood Johnson Medical School, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

**Nanjoo Suh, PhD**, Professor of Chemical Biology, Susan Lehman Cullman Laboratory for Cancer Research, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ

#### **(C1) FACTORS ASSOCIATED WITH CHEMOTHERAPY-RELATED UNPLANNED HOSPITALIZATION AMONG PATIENTS RECEIVING OUTPATIENT THERAPY FOR LUNG AND COLORECTAL CANCER**

Kristen Fessele<sup>1,3</sup>, Matthew J Hayat<sup>2,3</sup>, Robert Atkins<sup>3</sup>  
<sup>1</sup>University of Utah, Salt Lake City, UT; <sup>2</sup>Georgia State University, Atlanta, GA; <sup>3</sup>Rutgers, The State University of New Jersey, Newark, NJ

#### **(C2) OBESITY, WEIGHT GAIN AND OVARIAN CANCER RISK IN AFRICAN AMERICAN WOMEN**

EV Bandera<sup>1</sup>, B Qin<sup>1</sup>, AJ Alberg<sup>2</sup>, J Barnholtz-Sloan<sup>3</sup>, M Bondy<sup>4</sup>, ML Cote<sup>5</sup>, E Funkhouser<sup>6</sup>, E Peters<sup>7</sup>, AG Schwartz<sup>5</sup>, P Terry<sup>8</sup>, PG Moorman<sup>9</sup>, JM Schildkraut<sup>9,10</sup>  
<sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Medical University of South Carolina, Charleston, SC; <sup>3</sup>Case Western Reserve University School of Medicine, Cleveland, OH; <sup>4</sup>Baylor College of Medicine, Houston, TX; <sup>5</sup> Karmanos Cancer Institute, Wayne State University, Detroit, MI; <sup>6</sup>University of Alabama at Birmingham, Birmingham, AL; <sup>7</sup> School of Public Health, Louisiana State University, New Orleans, LA; <sup>8</sup>University of Tennessee-Knoxville, Knoxville, TN; <sup>9</sup>Duke Cancer Institute, Durham, NC; <sup>10</sup>University of Virginia, Charlottesville, VA

#### **(C3) RACIAL/ETHNIC DIFFERENCES IN RISK OF SUBSEQUENT INVASIVE BREAST CANCER AMONG WOMEN DIAGNOSED WITH INVASIVE BREAST CANCER AND DUCTAL AND LOBULAR BREAST CARCINOMA *IN SITU* IN NEW JERSEY, 1992-2012**

Karen S. Pawlish<sup>1</sup>, Xiaoling Niu<sup>1</sup>, Antoinette M. Stroup<sup>2</sup>  
<sup>1</sup>New Jersey Department of Health, Trenton, NJ; <sup>2</sup>Rutgers School of Public Health, Piscataway, NJ and Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

#### **(C4) GASTRIC ADENOCARCINOMA: CLINICOPATHOLOGIC DIFFERENCES AMONG HISPANICS AND NON-HISPANIC WHITES**

Narjust Duma, Larysa Jessica Sanchez, Andrew Jennis, Zubin M. Bamboat, Donald A. McCain, Martin Gutierrez  
Rutgers New Jersey Medical School, Newark, NJ; John Theurer Cancer Center, and Department of Surgery, Hackensack University Medical Center, Hackensack, NJ

#### **(C5) IDENTIFICATION OF SLUG-TARGETING DEUBIQUITINASES IN BREAST CANCER**

Wenyang Li, Hanqiu Zheng, Minhong Shen, Chase Hulderman, Christina Su, Yong Wei, Yibin Kang  
Department of Molecular Biology, Princeton University, Princeton, NJ

#### **(C6) MESENCHYMAL STEM CELLS PRIMED WITH BREAST CANCER CELLS RELEASE EXOSOMES THAT CONFER A DORMANT PHENOTYPE: COMBINED RNA THERAPEUTICS AND CHEMOTHERAPY**

Sarah A. Bliss<sup>1,2</sup>, Garima Sinha<sup>1,2</sup>, Oleta A. Sandiford<sup>1</sup>, Lisa Williams<sup>1,2</sup>, Daniel J. Engelberth<sup>1,2</sup>, Khadidiatou Guiro<sup>2</sup>, Lauren Sherman<sup>1,2</sup>, Leidy L. Isenalumhe<sup>3</sup>, Steven J. Greco<sup>1</sup>, Margarette Bryan<sup>1</sup>, Nicholas M. Ponzio<sup>4</sup>, Pranela Rameshwar<sup>1,2</sup>  
<sup>1</sup>Hematology/Oncology, Department of Medicine, Rutgers New Jersey Medical School and <sup>2</sup>Graduate School of Biomedical Sciences, Rutgers School of Biomedical Health Sciences, Newark, NJ; <sup>3</sup>Children's Hospital of Los Angeles, Los Angeles, CA; <sup>4</sup>Department of Laboratory Medicine and Pathology, Rutgers New Jersey Medical School, Newark, NJ

#### **(C7) PHIP/DSS-INDUCED COLON CARCINOGENESIS IN CYP1A-HUMANIZED MICE AND THE ROLE OF LGR5 STEM CELLS**

Jayson X. Chen<sup>1,2</sup>, Hong Wang<sup>1</sup>, Anna Liu<sup>1</sup>, Lanjing Zhang<sup>3</sup>, Ken Reuhl<sup>2</sup>, Chung S. Yang<sup>1,2</sup>  
<sup>1</sup>Department of Chemical Biology, Ernest Mario School of Pharmacy and <sup>2</sup>Joint Graduate Program in Toxicology, Rutgers, The State University of New Jersey, Piscataway, NJ; <sup>3</sup>Department of Gastrointestinal and Liver Pathology, University Medical Center of Princeton, Plainsboro, NJ

#### **(C8) TRANSCRIPTOMIC PROFILE ANALYSIS OF PANC-1 CELLS IN RESPONSE TO METFORMIN AND ASPIRIN: AN IMPLICATION OF SYNERGY**

Wen Yue<sup>1</sup>, Tao Wang<sup>2</sup>, Emmanuel Zachariah<sup>1</sup>, Yong Lin<sup>1,3</sup>, Chung S. Yang<sup>1,4</sup>, Qing Xu<sup>5</sup>, Robert S. DiPaola<sup>1</sup>, Xiang-Lin Tan<sup>1,6</sup>  
<sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Department of Epidemiology & Population Health, Albert Einstein College of Medicine, Bronx, NY; <sup>3</sup>Department of Biostatistics, Rutgers School of Public Health, Piscataway, NJ; <sup>4</sup>Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ; <sup>5</sup>Department of Oncology, Shanghai Tenth People's Hospital, School of Medicine, Shanghai, Tongji University, China; <sup>6</sup>Department of Epidemiology, Rutgers School of Public Health, Piscataway, NJ



# PROGRAM SCHEDULE

## PUBLIC FORUM

ROOM 010, CENTER FOR ADVANCED BIOTECHNOLOGY & MEDICINE

### *Immunotherapy for Cancer*

**10:00 A.M. – 11:30 A.M.**

**10:00 A.M. – 10:15 A.M.    Welcome & Introduction**

Edmund C. Lattime, PhD

**10:15 A.M. – 11:00 A.M.    Expert Perspectives**

**Taking Advantage of the Immune System to Fight Cancer**

Janice Mehnert, MD

**Understanding Side-Effects of Immunotherapy**

Doris Pindilli, APN

**Identifying Patients for Immunotherapy: Challenges and Considerations**

Eric Singer, MD, MA

**11:00 A.M. – 11:30 A.M.    Question and Answer Session**

***Program Sponsor:***

***Rutgers Cancer Institute of New Jersey***

PROGRAM SCHEDULE

FOCUS SESSION D - MAIN LECTURE HALL

Cancer Biology Discovery & Translation Symposium

1:00 P.M. – 4:15 P.M.

Genome Instability and Cancer Genetics

Co-Chairs: Zhiyuan Shen, MD, PhD, Professor of Radiation Oncology, Pharmacology, Chief, Division of Radiation Cancer Biology, Department of Radiation Oncology, Rutgers Robert Wood Johnson Medical School, Co-Leader, Program of Genomic Instability and Tumor Progression, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

Bing Xia, PhD, Associate Professor of Radiation Oncology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

1:00 P.M. – 2:00 P.M. Plenary Presentations

LIF, Friend or Foe

Wenwei Hu, PhD

Assistant Professor of Radiation Oncology  
Division of Radiation Cancer Biology  
Rutgers Robert Wood Johnson Medical School  
Rutgers Cancer Institute of New Jersey

Spontaneously Activated Telomerase Reverses the Tumor Suppressing Functions of Oncogene-Induced Senescence

Utz Herbig, PhD

Assistant Professor of Microbiology and Molecular Genetics  
Rutgers New Jersey Medical School

2:00 P.M. – 2:30 P.M.

(D1) BLM AND EXO1 ACT TOGETHER TO PROMOTE NORMAL DNA DOUBLE-STRAND BREAK REPAIR AND CELL CYCLE CHECKPOINTS

Sarah M. Misenko, Dharm S. Patel, Samuel F. Bunting  
Department of Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey, Piscataway, NJ

(D2) NEGATIVE REGULATION OF SOX9 BY GLYCOGEN SYNTHASE KINASE 3 BETA PHOSPHORYLATION AND SCFFBW7-DEPENDENT UBIQUITINATION IN CANCER

Wenyu Liu<sup>1\*</sup>, Xuehui Hong<sup>1,2\*</sup>, Ruipeng Song<sup>1,2</sup>, Hiroyuki Inuzuka<sup>3</sup>, LianXin Liu<sup>2</sup>, Sharon R. Pine<sup>1,4</sup>

<sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Department of Surgery, The First Affiliated Hospital of Harbin Medical University, Harbin, China; <sup>3</sup>Department of Pathology, Beth Israel Deaconess Medical Center, Harvard University, Boston, MA; <sup>4</sup>Department of Medicine, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ; \*co-first author

2:30 P.M. – 2:45 P.M. Break

Cancer Metabolism and Growth

Chair: Eileen White, PhD, Professor, Molecular Biology and Biochemistry, Rutgers Robert Wood Johnson Medical School, Associate Director for Basic Science, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

2:45 P.M. – 3:45 P.M. Plenary Presentations

Cell Stress Response in Oncogenesis and Chemotherapy

Wei-Xing Zong

Professor of Chemical Biology  
Ernest Mario School of Pharmacy  
Rutgers, The State University of New Jersey

Coordinating Cell Polarity and Mitosis in a Regenerative Epithelium

Danelle Davenport, PhD

Assistant Professor of Molecular Biology  
Princeton University

3:45 P.M.– 4:15 P.M.

(D3) MYC INDUCES EXPRESSION OF GLUTAMINE SYNTHETASE THROUGH THYMINE DNA GLYCOSYLASE-MEDIATED PROMOTER DEMETHYLATION

Alex J. Bott<sup>1,8</sup>, I-Chen Peng<sup>1</sup>, Yongjun Fan<sup>1</sup>, Brandon Faubert<sup>2</sup>, Lu Zhao<sup>3</sup>, Jinyu Li<sup>4</sup>, Sarah Neidler<sup>5</sup>, Yu Sun<sup>1,8</sup>, Nadia Jaber<sup>1</sup>, Dawid Krokowski<sup>6</sup>, Wenyun Lu<sup>7</sup>, Joshua Rabinowitz<sup>7</sup>, Maria Hatzoglou<sup>6</sup>, Scott Powers<sup>4</sup>, Daniel J. Murphy<sup>5</sup>, Russell Jones<sup>2</sup>, Song Wu<sup>3</sup>, Geoffrey Girnun<sup>4</sup>, Wei-Xing Zong<sup>1,8</sup>

<sup>1</sup>Departments of Molecular Genetics and Microbiology, <sup>2</sup>Applied Mathematics, and <sup>4</sup>Pathology, Stony Brook University, Stony Brook, NY; <sup>2</sup>Department of Physiology, McGill University, Montreal, Quebec, Canada; <sup>3</sup>Institute of Cancer Sciences, University of Glasgow, and the CRUK Beatson Institute, Glasgow, UK; <sup>6</sup>Department of Nutrition, Case Western Reserve University, Cleveland, OH; <sup>7</sup>Chemistry and Integrative Genomics, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ and Princeton University, Princeton, NJ; <sup>8</sup>Current address: Department of Chemical Biology, Rutgers, The State University of New Jersey, Piscataway, NJ

(D4) GLUTAMINE METABOLISM AND NUCLEOTIDE SALVAGE

Jessie Yanxiang Guo<sup>1,2</sup>, Xin Teng<sup>3</sup>, Sinan Khor<sup>1</sup>, Gizem Karsli-Uzunbas<sup>1</sup>, Yang Yang<sup>1</sup>, Ling Liu<sup>3</sup>, Joshua D. Rabinowitz<sup>1,3</sup>, Eileen White<sup>1,2</sup>

<sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Department of Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey, Piscataway, NJ; <sup>3</sup>Department of Chemistry, Princeton University, Princeton, NJ



PROGRAM SCHEDULE

FOCUS SESSION E - EAST LECTURE HALL

Cancer Prevention & Control Symposium

1:00 P.M. – 2:30 P.M.

**Co-Chairs:** Sharon Manne, PhD, Chief, Section of Population Studies, Professor, Department of Medicine, Rutgers Robert Wood Johnson Medical School, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

Cristine Delnevo, PhD, MPH, Co-Leader, Cancer Prevention and Control Research Program; Director of Center for Tobacco Surveillance & Evaluation Research, Professor and Chair of Health Education and Behavioral Science, Rutgers School of Public Health, Piscataway, NJ

1:00 P.M. – 2:00 P.M. Plenary Presentations

<p><i>Obesity and Breast Cancer Subtypes in African American Women</i></p> <p>Elisa Bandera, PhD, MPH</p> <p>Associate Professor of Epidemiology Rutgers School of Public Health Rutgers Cancer Institute of New Jersey</p>	<p><i>Patient Factors Contribute to Racial Disparities in Breast Cancer Treatment</i></p> <p>Kitaw Demissie, MD, PhD</p> <p>Professor and Chair, Department of Epidemiology Rutgers School of Public Health Director, Institute for the Elimination of Health Disparities Rutgers, The State University of New Jersey</p>	<p><i>Associations Between Sociodemographic and Clinicopathological Factors, and Breast Cancer Subtypes in a Population-based Study</i></p> <p>Adana Llanos, PhD, MPH</p> <p>Assistant Professor Rutgers School of Public Health</p>
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2:00 P.M. – 2:30 P.M.

<p>(E1) PROJECT SOL: SUN-SAFETY FOR OUTDOOR LABORERS</p> <p>Elliot J. Coups<sup>1,2</sup>, Carolina Lozada<sup>1</sup>, Jerod Stapleton<sup>1,2</sup>, Michele Ochsner<sup>3</sup>, Daniel Giovenco<sup>4</sup>, Louis Kimmel<sup>5</sup>, Germania Hernandez<sup>5</sup>, Shawna V. Hudson<sup>2</sup>, Denalee O’Malley<sup>2</sup></p> <p><sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Rutgers Robert Wood Johnson Medical School, Piscataway, NJ; <sup>3</sup>Rutgers School of Management and Labor Relations, New Brunswick, NJ; <sup>4</sup>Rutgers School of Public Health, Piscataway, NJ; <sup>5</sup>New Labor, New Brunswick, NJ</p>	<p>(E2) DEVELOPMENT OF A MOBILE APPLICATION (APP) TO PROMOTE PHYSICAL ACTIVITY AMONG ADOLESCENT AND YOUNG ADULT (AYA) CANCER SURVIVORS</p> <p>Amber L. Turner<sup>1</sup>, Sharon L. Manne<sup>1</sup>, Shawn M. Arent<sup>2</sup>, Olle Jane Z. Sahler<sup>3</sup>, Margaret Masterson<sup>1</sup>, Susan Stephens<sup>1</sup>, Dawn M. Carey<sup>1</sup>, Sherry Pagoto<sup>4</sup>, Katie A. Devine<sup>1</sup></p> <p><sup>1</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>2</sup>Rutgers, The State University of New Jersey, Piscataway, NJ; <sup>3</sup>University of Rochester Medical Center, Rochester, NY; <sup>4</sup>University of Massachusetts Medical School, Worcester, MA</p>
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PROGRAM SCHEDULE

FOCUS SESSION F - WEST LECTURE HALL

Cancer Therapeutics Symposium

1:00 P.M. – 4:15 P.M.

Cancer Pharmacology and Preclinical Therapeutics

Co-Chairs: **Shridar Ganesan, MD**, Associate Professor of Medicine and Pharmacology, Rutgers Robert Wood Johnson Medical School, Associate Director for Translational Science, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

**Howard Kaufman, MD, FACS**, Professor and Chief, Division of Surgical Oncology Rutgers Robert Wood Johnson Medical School, Associate Director for Clinical Sciences Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

1:00 P.M. – 2:00 P.M. Plenary Presentations

<div><i>Acquired Resistance and Exceptional Responders: Insights into Tumor Biology from Targeted Genomic Sequencing</i></div> <div><b>Shridar Ganesan, MD</b> Associate Professor of Medicine and Pharmacology Rutgers Robert Wood Johnson Medical School Rutgers Cancer Institute of New Jersey</div>	<div><i>Precision Medicine: Bridging the Gap Between Clinical Genomics and Targeted Therapy</i></div> <div><b>Kim M. Hirshfield, MD, PhD</b> Assistant Professor of Medicine Rutgers Robert Wood Johnson Medical School Rutgers Cancer Institute of New Jersey</div>
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2:00 P.M. – 2:30 P.M.

<div>(F1) ARSENIC TRIOXIDE AS TARGETED THERAPY FOR CANCERS HARBORING TRIM33 - FUSION PROTEINS</div> <div>Atul Kulkarni, Jermey Tang, Shridar Ganesan Rutgers Cancer Institute of New Jersey, New Brunswick, NJ</div>	<div>(F2) RANDOMIZED PROBIOTIC ENTERIC REGIMEN FOR EASING THE COMPLICATIONS OF TRANSPLANT</div> <div>Elan Gorshein, Catherine Wei, Asit K. De, Angelika Shenkerman, Roger Strair Rutgers Cancer Institute of New Jersey, New Brunswick, NJ</div>
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2:30 P.M.– 2:45 P.M. Break

Cancer Pharmacology Research

Co-Chairs: **Joseph R. Bertino, MD**, Professor of Medicine & Pharmacology, Rutgers Robert Wood Johnson Medical School, Chief Scientific Officer, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

**X. F. Steven Zheng, PhD**, Professor of Pharmacology, Rutgers Robert Wood Johnson Medical School, Division Chief of Cancer Pharmacology, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

2:45 P.M. – 3:45 P.M. Plenary Presentations

<div><i>Glutamatergic Signaling and Human Cancers</i></div> <div><b>Suzie Chen, PhD</b> Professor of Chemical Biology Ernest Mario School of Pharmacy Rutgers, The State University of New Jersey</div>	<div><i>Development of New Drugs That Sensitize Cancer Cells and Protect Normal Tissues In Chemotherapy</i></div> <div><b>Alexey G. Ryazanov, PhD</b> Professor of Pharmacology Rutgers Robert Wood Johnson Medical School</div>
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3:45 P.M.– 4:15 P.M.

<div>(F3) RILUZOLE PRODRUGS FOR MELANOMA: <i>IN VITRO</i> AND <i>IN VIVO</i> METABOLIC PROFILING</div> <div>Raj Shah<sup>1</sup>, Jeff Pelletier<sup>3</sup>, Allen Reitz<sup>3</sup>, Jed Wrobel<sup>3</sup>, Suzie Chen<sup>1,2</sup> <sup>1</sup>Susan Lehman Cullman Laboratory for Cancer Research, Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway NJ; <sup>2</sup>Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; <sup>3</sup>Fox Chase Chemical Diversity Center, Inc., Doylestown, PA</div>	<div>(F4) ONCOGENIC MICRORNA-9 REGULATION OF GLIOBLASTOMA CHEMORESISTANCE: A TARGET FOR EXOSOMAL RNA TARGETED THERAPY</div> <div>Jessian L Munoz<sup>1,2</sup>, Steven J Greco<sup>2</sup>, Shakti H Ramkissoon<sup>3,4</sup>, Keith L Ligon<sup>3,4</sup>, Pranela Rameshwar<sup>2</sup> <sup>1</sup>Rutgers Graduate School of Biomedical Science, Newark, NJ; <sup>2</sup>Rutgers New Jersey Medical School, Newark, NJ; <sup>3</sup>Department of Pathology, Brigham and Women's Hospital, Boston Children's Hospital, Boston, MA; <sup>4</sup>Harvard Medical School, Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA</div>
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