



# EMORY

# WINSHIP CANCER INSTITUTE

National Cancer Institute-Designated  
Comprehensive Cancer Center

## Winship Scientific Symposium

Integrating Artificial Intelligence and Big Data in Cancer Research at Winship  
*Emory Conference Center Hotel*

Monday, November 10, 2025

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| Emory Amphitheater Break Area        |                                                                                                                                                                                                                                                                                                                                                                                              |
| 8:30 a.m. – 9:00 a.m.                | <b>CONTINENTAL BREAKFAST PROVIDED</b>                                                                                                                                                                                                                                                                                                                                                        |
| Emory Amphitheater                   |                                                                                                                                                                                                                                                                                                                                                                                              |
| 9:00 a.m. – 9:10 a.m.                | <b>WELCOME AND CHARGE FOR THE DAY</b><br><b>SURESH RAMALINGAM, MD, FASCO</b><br>Executive Director, Winship Cancer Institute of Emory University<br>Associate Vice President for Cancer<br>Woodruff Health Sciences Center<br>Roberto C. Goizueta Distinguished Chair for Cancer Research<br>Professor, Department of Hematology and Medical Oncology<br>Emory University School of Medicine |
| Emory Amphitheater - Morning Session |                                                                                                                                                                                                                                                                                                                                                                                              |
| 9:10 a.m. – 9:15 a.m.                | <b>MORNING SESSION INTRODUCTIONS BY SARWISH RAFIQ, PhD</b>                                                                                                                                                                                                                                                                                                                                   |
| 9:15 a.m. – 9:40 a.m.                | <b>LEVERAGING POPULATION-BASED DATA TO IDENTIFY NOVEL PEDIATRIC CANCER PREDISPOSITION SYNDROMES</b><br><b>PHILIP LUPO, PhD, MPH</b><br>Professor, Department of Pediatrics<br>Emory University School of Medicine                                                                                                                                                                            |
| 9:40 a.m. – 10:05 a.m.               | <b>METHYLOMIC AND OTHER -OMIC CONSEQUENCES OF CLONAL HEMATOPOIESIS OF INDETERMINATE POTENTIAL</b><br><b>KAREN CONNEELY, PhD</b><br>Professor, Department of Human Genetics<br>Emory University School of Medicine                                                                                                                                                                            |
| 10:05 a.m. – 10:30 a.m.              | <b>AI-GUIDED DISCOVERY OF P38/MK2 PPI INHIBITORS TO TARGET TUMOR-PROMOTING INFLAMMATION</b><br><b>ANDREY IVANOV, PhD</b><br>Assistant Professor, Department of Pharmacology and Chemical Biology<br>Emory University School of Medicine                                                                                                                                                      |

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| 10:30 a.m. – 10:40 a.m.                   | <b>LLM-DRIVEN APPROACHES TO ENHANCE DIVERSITY IN CLINICAL TRIAL ENROLLMENT USING REAL-WORLD DATA</b><br><b>KIERSTEN CAMPBELL, PHD STUDENT</b><br>PIS: MATTHEW REYNA, PHD, MS AND SELEN BOZKURT, PHD, MSc                                                                                                                                                               |
| 10:40 a.m. – 10:50 a.m.                   | <b>INTEGRATING DRUG COMBINATION LANDSCAPE WITH MULTIOMICS FOR AML</b><br><b>KARANPREET BHATIA, PHD STUDENT</b><br>PI: SHRUTI BHATT, PHD                                                                                                                                                                                                                                |
| 10:50 a.m. – 11:05 a.m.                   | <b>PANEL DISCUSSION/Q&amp;A</b> MODERATED BY <b>JESSICA WELLS, PHD, RN, FAAN</b>                                                                                                                                                                                                                                                                                       |
| 11:05 a.m. – 11:15 a.m.                   | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                           |
| Emory Amphitheater - Keynote Presentation |                                                                                                                                                                                                                                                                                                                                                                        |
| 11:15 a.m. – 12:05 p.m.                   | <b>INTRODUCTION BY RENEE READ, PHD</b><br><br><b>INTERPRETER OF MALADIES: APPLICATIONS OF AI IN PRECISION ONCOLOGY</b><br><b>ANANT MADABHUSHI, PHD</b><br>Professor, Wallace H. Coulter Department of Biomedical Engineering<br>Georgia Institute of Technology and Emory University<br>Executive Director<br>Emory Empathetic AI for Health Institute                 |
| Dining Room                               |                                                                                                                                                                                                                                                                                                                                                                        |
| 12:05 p.m. – 1:15 p.m.                    | <b>LUNCH</b>                                                                                                                                                                                                                                                                                                                                                           |
| Emory Amphitheater - Afternoon Session    |                                                                                                                                                                                                                                                                                                                                                                        |
| 1:15 p.m. – 1:25 p.m.                     | <b>POSTDOCTORAL SCHOLAR AWARDS PRESENTATION</b>                                                                                                                                                                                                                                                                                                                        |
| 1:25 p.m. – 1:30 p.m.                     | <b>AFTERNOON SESSION INTRODUCTIONS</b> By <b>RYAN SUK, PHD, MS</b>                                                                                                                                                                                                                                                                                                     |
| 1:30 p.m. – 1:35 p.m.                     | <b>INTRODUCTION TO THE AMERICAN CANCER SOCIETY INITIATIVE AND SELECTED JOINT PILOT PROJECT</b><br><b>MADHUSMITA BEHERA, PHD</b>                                                                                                                                                                                                                                        |
| 1:35 p.m. – 1:45 p.m.                     | <b>INTEGRATED EXPOSOMICS FOR MAPPING ENVIRONMENT–IMMUNE RELATIONSHIPS IN NONHODGKIN’S LYMPHOMA</b><br><b>DR. DOUGLAS WALKER, PHD</b><br>Associate Professor, Department of Environmental Health<br>Rollins School of Public Health, Emory University<br><b>DR. LAUREN TERAS, PHD</b><br>American Cancer Society<br>Senior Scientific Director<br>Epidemiology Research |

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| 1:45 p.m. – 1:55 p.m.       | <b>AIRCANCEROMICS: ASSESSING IMPACTS OF AIR POLLUTION EXPOSURES ON LUNG CANCER RISK USING EPIGENOMICS AND MULTI-OMICS IN THE CPS COHORTS</b><br><b>DR. DONGHAI LIANG, PhD, MPH</b><br>Associate Professor, Department of Environmental Health<br>Rollins School of Public Health, Emory University<br><b>DR. YING WANG, PhD</b><br>American Cancer Society<br>Senior Principal Scientist<br>Epidemiology Research                   |
| 1:55 p.m. – 2:20 p.m.       | <b>BIG DATA IN SMALL VOLUMES: QUANTIFYING THE GENOMIC FINGERPRINT OF CANCER</b><br><b>ANDREA MOFFITT, PhD</b><br>Assistant Professor, Department of Hematology and Medical Oncology<br>Emory University School of Medicine<br>Assistant Professor, Department of Human Genetics<br>Emory University School of Medicine                                                                                                              |
| 2:20 p.m. – 2:45 p.m.       | <b>LEVERAGING DIGITAL TWINS FOR CLINICAL DEVELOPMENT, TRIAL DESIGN, AND DECISION SUPPORT IN ONCOLOGY</b><br><b>RAVI PARIKH, MD, MPP, FACP</b><br>Associate Professor, Department of Hematology and Medical Oncology<br>Emory University School of Medicine<br>Medical Director, Winship Data and Technology Applications Shared Resource<br>Winship Cancer Institute of Emory University                                            |
| 2:45 p.m. – 2:55 p.m.       | <b>SUPPRESSION OF LKB1-MUTANT LUNG ADENOCARCINOMA BY NATURAL KILLER CELLS FROM FEMALES</b><br><b>YIJIAN FAN, POSTDOCTORAL FELLOW</b><br>PI: WEI ZHOU, PhD                                                                                                                                                                                                                                                                           |
| 2:55 p.m. – 3:05 p.m.       | <b>PREDICTING DEPRESSION AFTER BREAST CANCER DIAGNOSIS USING REAL-WORLD EHR DATA</b><br><b>FREDDIE YANG, PhD STUDENT</b><br>PI: ILANA GRAETZ, PhD                                                                                                                                                                                                                                                                                   |
| 3:05 p.m. – 3:20 p.m.       | <b>PANEL DISCUSSION/Q&amp;A MODERATED BY ZACHARY BUCHWALD, PhD</b>                                                                                                                                                                                                                                                                                                                                                                  |
| 3:20 p.m. – 3:25 p.m.       | <b>CLOSING REMARKS</b><br><b>GREG LESINSKI, PhD, MPH</b><br>John Kauffman Family Professorship for Pancreatic Cancer Research<br>Professor and Vice Chair for Basic Research, Department of Hematology and Medical Oncology<br>Emory University School of Medicine<br>Associate Director for Basic Research and Shared Resources<br>Co-Director Translational GI Malignancy Program<br>Winship Cancer Institute of Emory University |
| Mountain Laurel and Hickory |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3:30 p.m. – 5:15 p.m.       | <b>POSTER SESSION AND RECEPTION</b>                                                                                                                                                                                                                                                                                                                                                                                                 |