The Future of Cancer Research: Science and Patient Impact

PROGRAM

Monday, October 27

10:00 AM – 12:00 PM  Educational Session 1: Impact of Translational Research on the Clinic – Molecular Targeted Therapy and Patient Outcome
Hohn Lecture Hall, Research Studies Center
Chairperson: Guido Marcucci, The Ohio State University, Columbus, OH

10:00 AM – 10:40 AM  Clinical Use of Molecular Markers in Curing Acute Myeloid Leukemia
Guido Marcucci

10:40 AM – 11:20 AM  Integration of Molecular Mechanisms of Drug Action into Clinical Treatment Decisions*
Gerold Bepler, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL

11:20 AM – 12:00 PM  Multifunctional Agents for Tumor Imaging and Therapy*
Ravindra K. Pandey, Roswell Park Cancer Institute, Buffalo, NY

10:00 AM – 12:00 PM  Educational Session 2: Application of Innovative Technologies of the 21st Century – An Overview
Zebro Family Conference Room, Center for Genetics and Pharmacology
Chairperson: Norma J. Nowak, Roswell Park Cancer Institute, Buffalo, NY

10:00 AM – 10:30 AM  Sequencing the Cancer Genome
Richard K. Wilson, Washington University School of Medicine, St. Louis, MO

10:30 AM – 11:00 AM  Dynamic Molecular Imaging of Signal Transduction Pathways in Discovery Research*
David Piwnica-Worms, Washington University School of Medicine, St. Louis, MO

*An extended abstract for this presentation is available in the Abstracts of Invited Presentations section of the Proceedings
11:00 AM – 11:30 AM  
*Biomedical Informatics: Enabling Cancer Researchers to See the Forest AND the Trees*

**Kenneth H. Buetow**, National Cancer Institute, Bethesda, MD

11:30 AM – 12:00 PM  
Panel Discussion

12:00 PM – 12:45 PM  
Lunch

Gaylord Cary Room, Research Studies Center

12:45 PM – 1:00 PM  
Welcoming Remarks

Hohn Lecture Hall, Research Studies Center

**Donald L. Trump**, President and CEO, Roswell Park Cancer Institute and 
**Raymond N. DuBois**, President, American Association for Cancer Research

1:00 PM – 1:45 PM  
Opening Keynote Talk

Hohn Lecture Hall, Research Studies Center

*Chairpersons: Raymond N. DuBois, UT M.D. Anderson Cancer Center, Houston, TX and Donald L. Trump, Roswell Park Cancer Institute, Buffalo, NY*

*Transforming FDA Science: Implications for Cancer Research*

**Frank M. Torti**, Food and Drug Administration, Rockville, MD

1:45 PM – 3:45 PM  
Plenary Session 1: Experimental and Molecular Therapeutic Advances – What the Future Holds

Hohn Lecture Hall, Research Studies Center

*Chairperson: Candace S. Johnson, Roswell Park Cancer Institute, Buffalo, NY*

1:45 PM – 2:15 PM  
*The HIF/VHL Pathway as a Paradigm for the Targeting of the Tumor Microenvironment Therapeutically*

**Amato J. Giaccia**, Stanford University School of Medicine, Stanford, CA

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2:15 PM – 2:45 PM  
**Epigenetic Contributions to Chronic Lymphocytic Leukemia***  
**Christoph Plass**, German Cancer Research Center DKFZ, Heidelberg, Germany

2:45 PM – 3:15 PM  
**Epigenetic Silencing of Endothelial Cells in the Tumor Microenvironment***  
**Candace S. Johnson**

3:15 PM – 3:45 PM  
**Normalizing Tumor Microenvironment to Treat Cancer: From Bench to Bedside and Back***  
**Rakesh K. Jain**, Massachusetts General Hospital and Harvard Medical School, Boston, MA

3:45 PM – 4:00 PM  
**Break**

4:00 PM – 6:00 PM  
**Plenary Session 2: The Emerging Fields of Proteomics and Systems Biology**  
Hohn Lecture Hall, Research Studies Center  
**Chairperson: Kenneth H. Buetow, National Cancer Institute, Bethesda, MD**

4:00 PM – 4:40 PM  
**Fast Tracking the Development of Cancer Biomarkers Using Proteomics***  
**Samir M. Hanash**, Fred Hutchinson Cancer Research Center, Seattle, WA

4:40 PM – 5:20 PM  
**Linking Measurement and Mathematics in a Quantitative Analysis of Anticancer Therapy***  
**Peter Sorger**, Harvard Medical School, Boston, MA

5:20 PM – 6:00 PM  
**Systems Medicine, Transformational Technologies, and the Emergence of Predictive, Personalized, Preventive, and Participatory (P4) Medicine***  
**Leroy E. Hood**, The Institute for Systems Biology, Seattle, WA

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7:00 PM – 9:30 PM  Opening Reception, Dinner, and Keynote Talk
Mary Seaton Room, Kleinhan’s Music Hall

7:30 PM – 7:45 PM  Welcoming Remarks
Margaret Foti, American Association for Cancer Research, Philadelphia, PA; Enrico Mihich, Roswell Park Cancer Institute, Buffalo, NY; Edwin A. Mirand, Roswell Park Cancer Institute, Buffalo, NY

8:45 PM – 9:15 PM  Future Trends in Cancer Research
Donald S. Coffey, Johns Hopkins University School of Medicine, Baltimore, MD

Tuesday, October 28

7:45 AM – 8:30 AM  Continental Breakfast
Gaylord Cary Room, Research Studies Center

8:30 AM – 10:15 AM  Plenary Session 3: The Knowledge within Genomics and Cancer Genomics Research
Hohn Lecture Hall, Research Studies Center
Chairperson: Nickolas Papadopoulos, Sidney Kimmel Comprehensive Cancer Center and the Johns Hopkins Institutes’ Ludwig Center for Cancer Genetics and Therapeutics, Baltimore, MD

8:30 AM – 9:05 AM  The Genetic Landscape of Cancer*
Nickolas Papadopoulos

9:05 AM – 9:40 AM  Deciphering Complexity in Transcription*
Moray J. Campbell, Roswell Park Cancer Institute, Buffalo, NY

9:40 AM – 10:15 AM  Non-Coding RNA Paradigms in Medical Practice*
George A. Calin, UT M.D. Anderson Cancer Center, Houston, TX

10:15 AM – 10:30 AM  Break

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10:30 AM – 12:00 PM  
**Plenary Session 4: The Relevance and Challenges of Cancer Prevention Research with a Focus on Molecular Epidemiology**
Hohn Lecture Hall, Research Studies Center  
*Chairperson: Christine B. Ambrosone, Roswell Park Cancer Institute, Buffalo, NY*

10:30 AM – 11:00 AM  
**Molecular Targeting and the Prevention-Therapy Convergence***  
Scott M. Lippman, UT M.D. Anderson Cancer Center, Houston, TX

11:00 AM – 11:30 AM  
**Molecular Epidemiology in Cancer Prevention and Control***  
Christine B. Ambrosone

11:30 AM – 12:00 PM  
**Molecular Epidemiology: Looking Towards the Future**  
Nathaniel Rothman, National Cancer Institute, Bethesda, MD

12:00 PM – 1:00 PM  
Lunch  
Gaylord Cary Room, Research Studies Center

1:00 PM – 1:45 PM  
**Closing Keynote Talk**  
Hohn Lecture Hall, Research Studies Center  
*Chairperson: Raymond N. DuBois, UT M.D. Anderson Cancer Center, Houston, TX*

*The Future of Cancer Research***  
Harold L. Moses, Vanderbilt-Ingram Cancer Center, Nashville, TN

1:45 PM – 2:00 PM  
**Closing Remarks**  
Hohn Lecture Hall, Research Studies Center  
Raymond N. DuBois, UT M.D. Anderson Cancer Center, Houston, TX and  
Donald L. Trump, Roswell Park Cancer Institute, Buffalo, NY

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