



The Potential Contribution of Cancer Genomics Information to Community Investigations of Unusual Patterns of Cancer

Collaborative workshop convened by:
National Cancer Policy Forum
Roundtable on Genomics and Precision Health

THURSDAY, APRIL 13, 2023

8:30 am Introductory Session

Welcome and Opening Remarks
Roberta Ness, *Planning Committee Chair*

Centers for Disease Control and Prevention Workshop Priorities
Stephanie Foster, *Centers for Disease Control and Prevention*

8:50 am Opening Keynote Address
Overview of Pediatric Cancers and Environmental Exposures
Catherine Metayer, *University of California, Berkeley*

9:15 am Session 1: Novel Approaches to Improve Identification of Genomic and Epigenomic Biomarkers and Environmental Exposures
Moderator: Carmen Marsit, Emory University

DNA Methylation Biomarkers of Environmental Exposures
Christine Ladd-Acosta, *Johns Hopkins Bloomberg School of Public Health*

Genomic Methods to Understand the Genetic Origins of Pediatric Cancers
Jinghui Zhang, *St. Jude Children's Research Hospital*

Using Cancer Mutational Signatures to Explore Etiology of Pediatric Cancer
Ludmil Alexandrov, *University of California, San Diego*

Panel Discussion with Keynote and Speakers

10:15 am Session 2: Statistical and Epidemiological Approaches to Identify Linkages of Genomic Biomarkers to Cancer Clusters

*Moderators: Wei-Ting Hwang, University of Pennsylvania Perelman School of Medicine
Sharon Plon, Texas Children's Hospital*

The Role of Central Cancer Registries in the Investigation of Unusual Patterns of Cancer

Recinda Sherman, North American Association of Central Cancer Registries

Epidemiological Approaches for Assessing Reports of Cancer Clusters and Environmental Exposures

Melissa Bondy, Stanford University

Genomic Ancestry Inference to Decompose Genetic and Environmental Contributions to Cancer Disparities

King Jordan, Georgia Institute of Technology

Panel Discussion

11:15 am BREAK

11:30 am Session 3: Environmental Exposures and Pediatric Cancer

*Moderators: Mark Purdue, National Institutes of Health
Kim Nichols, St. Jude Children's Research Hospital*

Current Epidemiologic Evidence on Environmental Exposures and Pediatric Cancer

Michael Scheurer, Baylor College of Medicine

Using Molecular Epidemiology to Investigate Environmental Exposures and Pediatric Cancer

Joseph Wiemels, University of Southern California

The Exposome and Pediatric Cancer

Lauren Petrick, Mount Sinai and Sheba Medical Center

Panel Discussion

12:30 pm Session 4: Strategies for Communication about Environmental Exposures and Cancer Risk

Moderator: Alejandro Sweet-Cordero, University of California, San Francisco

Enhancing Communication and Engagement with Communities about Cancer Clusters

Trevor Schaefer, Trevor's Trek Foundation



Communicating What We Do Know in Community Cancer Investigations ToolsJulia Brody, *Silent Spring Institute, Brown University***Promoting Culturally Sensitive Risk Communication with the Community**
Monica Ramirez-Andreotta, *University of Arizona***Panel Discussion****1:30 pm** **BREAK****1:45 pm** **Session 5: Lessons Learned and Future Considerations***Moderator: Roberta Ness, Planning Committee Chair***Panelists:**

- **Jack Taylor**, *National Institute of Environmental Health Sciences*
- **Logan Spector**, *University of Minnesota*
- **Trevor Schaefer**, *Trevor's Trek Foundation*
- **Jerald A. Fagliano**, *Drexel University*

2:45 pm **Closing Remarks***Roberta Ness, Planning Committee Chair***3:00 pm** **ADJOURN**