

# CONFERENCE PROGRAM

## Wednesday, November 16

5:00 p.m.-5:15 p.m.

### Opening Remarks

Ballroom C

Susan M. Gapstur, American Cancer Society, Atlanta, GA

5:15 p.m.-6:45 p.m.

### Opening Keynote Address

Introduction

Susan M. Gapstur, American Cancer Society, Atlanta, GA

Risk model requirements for counseling, prevention, and early detection

Mitchell H. Gail, National Cancer Institute, Rockville, MD

6:45 p.m.-8:30 p.m.

### Opening Reception

Ballroom D

## Thursday, November 17

7:30 a.m.-8:30 a.m.

### Breakfast with Mentoring Roundtables

Ballroom D

8:30 a.m.-10:30 a.m.

### Plenary Session 1: Fundamentals of Risk Prediction Models: Nuts and Bolts

Ballroom C

**Session Chair: Ruth Pfeiffer**, National Cancer Institute, Bethesda, MD

8:30 a.m.-9:00 a.m.

A brief overview of building and validating absolute risk models

Ruth Pfeiffer

9:00 a.m.-9:30 a.m.

Requirements for a statistical prediction model to receive AJCC endorsement

Michael W. Kattan, The Cleveland Clinic, Cleveland, OH

9:30 a.m.-10:00 a.m.

Risk prediction for breast cancer

Bernard A. Rosner, Harvard T.H. Chan School of Public Health, Boston, MA

10:00 a.m.-10:15 a.m.

Risk models for cancer screening cohorts assembled from electronic health records:  
Application to calculating risks that underlie current cervical cancer screening  
guidelines\*

Li C. Cheung, George Washington University, Silver Spring, MD

*\*Short talk from proffered abstract*

# CONFERENCE PROGRAM

|                              |  |
|------------------------------|--|
| 10:15 a.m.-10:30 a.m.        | Validation of breast cancer risk prediction model using Nurses Health and Nurse Health II Studies*<br>Chi Gao, Harvard School of Public Health, Cambridge, MA  |
| <b>10:30 a.m.-11:00 a.m.</b> | <b>Break</b><br>Ballroom C Foyer   |
| <b>11:00 a.m.-1:00 p.m.</b>  | <b>Plenary Session 2: Genetic Testing to Improve Risk Prediction</b><br>Ballroom C<br><br><b>Session Chair: Antonis Antoniou</b> , University of Cambridge, Cambridge, United Kingdom                            |
| 11:00 a.m.-11:30 a.m.        | Modeling genetic susceptibility to breast cancer<br>Antonis Antoniou   |
| 11:30 a.m.-12:00 p.m.        | Genetic susceptibility to ovarian cancer: The clinical significance<br>Paul Pharoah, University of Cambridge, Cambridge, United Kingdom  |
| 12:00 p.m.-12:30 p.m.        | Using genetic information in screening and prevention: Perspective of clinicians and policy-makers<br>David F. Ransohoff, University of North Carolina, Chapel Hill, NC  |
| 12:30 p.m.-12:45 p.m.        | Association of environmental risk factors, family history, and polygenic risk scores with chronic lymphocytic leukemia*<br>Geffen Kleinstern, Mayo Clinic, Rochester, MN   |
| 12:45 p.m.-1:00 p.m.         | Risk prediction for non-Lynch syndrome colorectal cancer based on 45 independent risk-associated SNPs and multi-generational family history*<br>Mark Jenkins, University of Melbourne, Melbourne, VIC, Australia |
| <b>1:00 p.m.-3:00 p.m.</b>   | <b>Free time/Lunch on own</b>  |
| <b>3:00 p.m.-5:00 p.m.</b>   | <b>Plenary Session 3: Enhancing Risk Prediction Models by Incorporating Novel Factors</b><br>Ballroom C<br><br><b>Session Chair: Celine M. Vachon</b> , Mayo Clinic, Rochester, MN                               |
| 3:00 p.m.-3:30 p.m.          | Incorporating risk prediction in the breast screening setting<br>Celine M. Vachon  |
| 3:30 p.m.-4:00 p.m.          | The airway transcriptome as a biomarker for early lung cancer detection<br>Avrum E. Spira, Boston University School of Medicine, Boston, MA  |
| 4:00 p.m.-4:30 p.m.          | Targeted imaging of the serrated pathway for early detection of colorectal cancer<br>Thomas D. Wang, University of Michigan, Ann Arbor, MI   |

*\*Short talk from proffered abstract*

# CONFERENCE PROGRAM

- 4:30 p.m.-4:45 p.m. Does a comprehensive family history of colorectal cancer improve risk prediction?\*
- Yingye Zheng, Fred Hutchinson Cancer Research Center, Seattle, WA
- 4:45 p.m.-5:00 p.m. Using frailty models to improve familial cancer risk prediction\*
- Theodore J. Huang, Harvard University, Watertown, MA
- 5:00 p.m.-7:30 p.m. Poster Session A and Reception**  
Ballroom D

## Friday, November 18

- 7:30 a.m.-8:30 a.m. Breakfast with Mentoring Roundtables**  
Ballroom D
- 8:30 a.m.-10:30 a.m. Plenary Session 4: Challenges in Risk Prediction of Cancers in Women**  
Ballroom C
- Session Chair: Mark E. Sherman**, National Cancer Institute, Bethesda, MD
- 8:30 a.m.-9:00 a.m. Title to be announced  
Mark E. Sherman
- 9:00 a.m.-9:30 a.m. Risk-assessment in HPV-based cervical cancer screening  
Rolando Herrero, International Agency for Research on Cancer, Lyon, France
- 9:30 a.m.-10:00 a.m. A practical approach to reducing the burden of ovarian cancers  
Douglas A. Levine, Memorial Sloan Kettering Cancer Center, New York, NY
- 10:00 a.m.-10:15 a.m. Comparison of risk model recommendations for women at high-risk of breast cancer based on clinical thresholds using the Prospective Family Study Cohort (ProF-SC)\*  
Mary Beth Terry, Columbia University School of Public Health, New York, NY
- 10:15 a.m.-10:30 a.m. Breast cancer risk assessment using common genetic variants in Malaysian and Singaporean Chinese population\*  
Weang-Kee Ho, University of Nottingham Malaysia Campus, Selangor, Malaysia
- 10:30 a.m.-11:00 a.m. Break**  
Ballroom C Foyer

*\*Short talk from proffered abstract*

# CONFERENCE PROGRAM

|                             |   |
|-----------------------------|---|
| <b>11:00 a.m.-1:15 p.m.</b> | <b>Plenary Session 5: Risk Assessment for Prostate and Colon Cancer</b><br>Ballroom C<br><br><b>Session Chair: Kenneth Muir</b> , University of Manchester, Manchester, United Kingdom                    |
| 11:00 a.m.-11:30 a.m.       | The “Riskman” program: A risk based approach to prostate cancer detection – incorporating cost considerations into the mix<br>Kenneth Muir  |
| 11:30 a.m.-12:00 p.m.       | Combining genetic and environmental risk information to predict colorectal cancer risk<br>Ulrike Peters, Fred Hutchinson Cancer Research Center, Seattle, WA  |
| 12:00 p.m.-12:30 p.m.       | Heritability of prostate cancer<br>Fredrick R. Schumacher, USC/Norris Comprehensive Cancer Center, Los Angeles, CA  |
| 12:30 p.m.-12:45 p.m.       | Prostate cancer prognostication based on an actionable metabolic pathway*<br>Konrad Stopsack, Mayo Clinic, Rochester, MN  |
| 12:45 p.m.-1:00 p.m.        | Development of a comprehensive colorectal cancer risk prediction tool (CRiPT) incorporating known and unknown major genes and polygenes*<br>Aung Ko Win, University of Melbourne, Carlton, VIC, Australia |
| 1:00 p.m.-1:15 p.m.         | Utah familial colorectal cancer risk model*<br>Robert J. Macinnis, Cancer Council Victoria, Melbourne, VIC, Australia   |
| <b>1:15 p.m.-3:30 p.m.</b>  | <b>Poster Session B and Lunch</b><br>Ballroom D   |
| <b>3:30 p.m.-5:30 p.m.</b>  | <b>Plenary Session 6: Risk Assessment for Lung and Other Smoking-Related Cancers</b><br>Ballroom C<br><br><b>Session Chair: John K. Field</b> , University of Liverpool, Liverpool, United Kingdom        |
| 3:30 p.m.-4:00 p.m.         | Risk prediction modeling in lung cancer: How can we improve?<br>John K. Field   |
| 4:00 p.m.-4:30 p.m.         | Development and validation of risk models to select ever-smokers for CT lung-cancer screening<br>Hormuzd Katki, National Cancer Institute, Rockville, MD  |
| 4:30 p.m.-5:00 p.m.         | Can biomarkers be used to improve risk prediction models on lung cancer?<br>Mattias A. Johansson, International Agency for Research on Cancer, Lyon, France   |
| 5:00 p.m.-5:15 p.m.         | Effect of screening CT findings on lung cancer risk prediction within the National Lung Screening Trial*<br>Hilary A. Robbins, Johns Hopkins School of Public Health, Baltimore, MD                       |
| 5:15 p.m.-5:30 p.m.         | External validation of a risk prediction model for lung cancer among smokers*<br>Lori C. Sakoda, Kaiser Permanente, Oakland, CA   |

*\*Short talk from proffered abstract*

# CONFERENCE PROGRAM

**5:30 p.m.-6:30 p.m.**

**Keynote Address**

Ballroom C

Introduction

Graham A. Colditz, Washington University in St. Louis, St. Louis, MO

Maximizing the impact of risk prediction models: Leveraging lessons learned from risk communication research

William MP Klein, NCI-DCCPS, Rockville, MD

## Saturday, November 19

**7:30 a.m.-8:30 a.m.**

**Breakfast with Mentoring Roundtables**

Ballroom D

**8:30 a.m.-10:30 a.m.**

**Plenary Session 7: Decreasing Risk Through Improved Lifestyles:  
Using What We Know**

Ballroom C

**Session Chair: Graham A. Colditz**, Washington University in St. Louis, St. Louis, MO

8:30 a.m.-9:00 a.m.

Translating evidence to action: [Yourdiseaserisk.wustl.edu](http://Yourdiseaserisk.wustl.edu)

Graham A. Colditz

9:00 a.m.-9:30 a.m.

Using risk assessment tools to motivate behavior change

Erika A. Waters, Washington University School of Medicine in St. Louis, St. Louis, MO

9:30 a.m.-10:00 a.m.

Reducing cancer risk by enabling women to breastfeed

Alison M. Stuebe, University of North Carolina, Chapel Hill, NC

10:00 a.m.-10:15 a.m.

Development of a cancer risk prediction tool for use in the Risk Estimation For Lifestyle Enhancement Combined Trial (REFLECT)\*

Artitaya Lophatananon, University of Manchester, Nottingham, England

10:15 a.m.-10:30 a.m.

Projecting individualized absolute risk of developing gastric cancer in Koreans\*

Minkyong Song, National Cancer Institute, Rockville, MD

**10:30 a.m.-11:00 a.m.**

**Break**

Ballroom C Foyer

*\*Short talk from proffered abstract*

# CONFERENCE PROGRAM

|                             |   |
|-----------------------------|---|
| <b>11:00 a.m.-1:00 p.m.</b> | <b>Plenary Session 8: Implementation of Risk Prediction to Improve Health</b><br>Ballroom C<br><br><b>Session Chair: Jon Emery</b> , University of Melbourne, Melbourne, Australia                                |
| 11:00 a.m.-11:30 a.m.       | Developing and evaluating cancer risk assessment tools for primary care<br>Jon Emery  |
| 11:30 a.m.-12:00 p.m.       | Implementation of risk prediction to improve health: The promises and challenges of precision<br>Barnett S. Kramer, National Institutes of Health, Rockville, MD  |
| 12:00 p.m.-12:30 p.m.       | The use of cancer screening tests among populations at increased risk of cancer<br>Mary C. White, Centers for Disease Control & Prevention, Atlanta, GA   |
| 12:30 p.m.-12:45 p.m.       | Effect of cancer risk and patient preferences on net benefit of lung cancer screening: A personalized lung cancer screening model*<br>Pianpian Cao, University of Michigan School of Public Health, Ann Arbor, MI |
| 12:45 p.m.-1:00 p.m.        | Comprehensive colorectal cancer risk prediction to inform personalized screening and intervention*<br>Jihyoun Jeon, University of Michigan, Ann Arbor, MI   |
| <b>1:00 p.m.</b>            | <b>Closing Remarks and Departure</b><br>Ballroom C<br><br>Susan E. Hankinson, University of Massachusetts, Amherst, MA<br>Chair, AACR Molecular Epidemiology Working Group  |

*\*Short talk from proffered abstract*