8th ANNUAL SCIENTIFIC SYMPOSIUM
A CME/CNE – Certified Conference

BRCA1, BRCA2 and Beyond:
An Update on Hereditary Cancer

Keynote Speakers and Basser Global Prize Awardees:
Douglas Easton, PhD, and
Antonis Antoniou, PhD

TUESDAY, MAY 12, 2020
WEDNESDAY, MAY 13, 2020

Smilow Center for Translational Research Auditorium/Commons
(enter through Perelman Center for Advanced Medicine)
Program Overview

This symposium is designed to educate researchers, scientists, and health care providers in cancer genetics by presenting cutting-edge data from renowned BRCA1/2 researchers. This symposium will provide new information on the basic biology of known cancer susceptibility genes. In addition, progress in cancer screening and prevention as well as ongoing work in targeted therapy for BRCA1/2 mutation carriers will be discussed through a series of lectures and panel discussions. Attendees will have the opportunity to network with colleagues working in the field.

PROGRAM OBJECTIVES

At the completion of this symposium, attendees should be able to:

• Discuss new research on the basic biology of BRCA1 and BRCA2 and other homologous repair deficiency genes.

• Describe current ethical, legal and social issues associated with carrying a BRCA1/2 mutation.

• Review new approaches to screening and prevention of hereditary breast, ovarian, pancreatic and prostate cancer.

• Discuss new advances in treatment for mutation carriers of BRCA1/2 and other known cancer susceptibility genes.

WHO SHOULD ATTEND

Healthcare providers including medical oncology, surgical oncology, gynecology oncology, ob-gyn, genetic counselors, primary care physicians and nurses/nurse practitioners who are interested in the genetics of BRCA1/2 related cancers.
KEYNOTE SPEAKER AND BASSER GLOBAL PRIZE AWARDEE

Douglas Easton, PhD

*University of Cambridge*

Professor Easton is currently Director of the Centre for Cancer Genetic Epidemiology within the Department of Public Health and Primary Care. He studied Mathematical Statistics at the University of Cambridge before gaining a PhD in Genetic Epidemiology at the University of London in 1992. In 1995 he set up the Cancer Research UK Genetic Epidemiology Unit at Cambridge, where he was a CR-UK Principal Research Fellow from 2001-2011. He was awarded Professorship of Genetic Epidemiology in 2003.

KEYNOTE SPEAKER AND BASSER GLOBAL PRIZE AWARDEE

Antonis Antoniou, PhD

*University of Cambridge*

Professor Antoniou studied at the London School of Economics and Political Science and the University of Cambridge before gaining his PhD in Genetic Epidemiology at Cambridge in 2001. He was appointed a Professor of Cancer Risk Prediction in 2017. He currently leads a research group within the Department of Public Health and Primary Care and he is the Academic Course Director for the MPhil in Epidemiology.

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SYMPOSIUM CHAIR

Susan M. Domchek, MD

*Executive Director, Basser Center for BRCA  
Director, Mariann and Robert MacDonald Cancer Risk Evaluation Center*

Susan Domchek is the Basser Professor in Oncology at the Perelman School of Medicine of the University of Pennsylvania. She serves as Executive Director of the Basser Center for BRCA at the Abramson Cancer Center and Director of the Mariann and Robert MacDonald Cancer Risk Evaluation Center. Her work focuses on the genetic evaluation and medical management of individuals with inherited risk factors for cancer. Dr. Domchek is particularly interested in developing new cancer therapies, such as PARP inhibitors, for breast cancer patients due to genetic risk factors.
SYMPOSIUM CO-ORGANIZERS

Ronald Drapkin, MD, PhD
Associate Professor of Pathology in Obstetrics & Gynecology
Director, Ovarian Cancer Research Center
Director of Gynecologic Cancer Research, Basser Center for BRCA

Dana Farengo Clark, MS, LCGC
Senior Genetic Counselor
Mariann & Robert MacDonald Cancer Risk Evaluation Center
Basser Center for BRCA

Roger Greenberg, MD, PhD
Professor of Cancer Biology
Investigator, Abramson Family Cancer Research Institute
Director of Basic Science, Basser Center for BRCA
Director, Penn Center for Genome Integrity

Robin Herzog, MSN, CRNP
Nurse Practitioner
Department of Hematology Oncology Abramson Cancer Center
University of Pennsylvania

Katherine L. Nathanson, MD
Professor of Medicine
Deputy Director, Abramson Cancer Center
Director of Genetics, Basser Center for BRCA

PENN MEDICINE FACULTY

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Assistant Professor of Medicine
Department of Hematology/Oncology

Jessica Ebrahimzadeh, MS, LCGC
Genetic Counselor
Mariann & Robert MacDonald Cancer Risk Evaluation Center
Basser Center for BRCA

Bryson Katona, MD, PhD
Assistant Professor of Medicine
Director, Acute and Transitional Gastroenterology Program and Gastrointestinal Cancer Genetics Program

Andy Minn, MD, PhD
Associate Professor of Radiation Oncology Department of Radiation Oncology

Jacquelyn Powers, MS, LCGC
Senior Genetic Counselor
Mariann & Robert MacDonald Cancer Risk Evaluation Center
Basser Center for BRCA

Priyanka Verma, PhD
Postdoctoral Researcher
Department of Cancer Biology
GUEST SPEAKERS

Dipanjan Chowdhury, PhD
Professor of Radiation Oncology
Harvard Medical School, Dana Farber Cancer Institute

Eitan Friedman, MD, PhD
Professor
Director and Founder, Suzanne Levy-Gertner Oncogenetics Unit
Sheba Medical Center, Israel

Karen Hurley, PhD
Licensed Clinical Psychologist
Center for Behavioral Health
Cleveland Clinic

Rama Khokha, PhD
Professor of Medical Biophysics
University of Toronto

Jennifer Litton, MD
Professor
Department of Breast Medical Oncology
MD Anderson Cancer Center, University of Texas

Alejandra Hurtado de Mendoza, PhD
Assistant Professor of Cancer Prevention and Control
Lombardi Comprehensive Cancer Center Georgetown University

Kathleen Moore, MD, MS
Associate Professor, Section of Gynecologic Oncology
Associate Director Clinical Research
Stephenson Cancer Center
University of Oklahoma Health Sciences Center

Jo Morris, PhD
Professor of Molecular Genetics
Institute of Cancer and Genomic Services
University of Birmingham

Feyruz Rassool, PhD
Professor of Radiation Oncology
University of Maryland, School of Medicine

Mark Robson, MD
Chief, Breast Medicine Service
Clinic Director, Clinical Genetics Service
Memorial Sloan Kettering Cancer Center

Kavitha Sarma, PhD
Assistant Professor of Genetics
The Wistar Institute

Ralph Scully, MBBS, PhD
Professor of Medicine
Harvard Medical School
Beth Israel Deaconess Medical Center
8TH ANNUAL SCIENTIFIC SYMPOSIUM
AGENDA

TUESDAY, MAY 12, 2020

Smilow Center for Translational Research | Auditorium/Commons

7:30-8:15  Registration
8:15-8:30  Welcome

Morning Session

8:30-9:00  Interactions between FANCM and BRCA1 at stalled replication forks Ralph Scully, MBBS, PhD
9:00-9:30  New factors in DNA double strand break repair impact on cancer therapy Dipanjan Chowdhury, PhD
9:30-10:00 A new chromatin directed vulnerability in BRCA mutated cancers Priyanka Verma, PhD

10:00-10:30  BREAK

10:30-11:00  The role of BRCA1 in stalled replication fork protection Jo Morris, PhD

11:00-11:30  R-loop dynamics in BRCA deficient cancers Kavitha Sarma, PhD

11:30-12:00  Expanding PARP inhibitors beyond BRCA mutations: Linking DNA damage to immune signaling Feyruz Rassool, PhD

12:00-1:15  LUNCH
**8th Annual Scientific Symposium Agenda**

**Tuesday, May 12, 2020**

Smilow Center for Translational Research | Auditorium/Commons

**Afternoon Session**

1:15-1:45  Dissecting and targeting the opposing roles of Interferon signaling in cancer immunotherapy  
Andy Minn, MD, PhD

1:45-2:15  Mammary epithelial heterogeneity guides lineage-specific vulnerabilities  
Rama Khokha, PhD

2:15-2:45  **BREAK**

2:45-3:00*  Global Prize Presentation  
Keynote Speakers

Unravelling the genetics of breast cancer - from families to populations  
Douglas Easton, PhD

Characterising BRCA1 and BRCA2: what have we learned from large national and international consortia  
Antonis Antoniou, PhD

3:00-4:30  Poster Session and Reception

4:30-5:30**  Breakthroughs and Discoveries Panel moderated by Susan Domchek, with panelists Douglas Easton, Antonis Antoniou, Kathleen Moore, and Jacquelyn Powers. *This lay session is open to the public and will begin promptly at 5:15.*

5:00-6:30*  Breakthroughs and Discoveries Panel moderated by Susan Domchek, with panelists Douglas Easton, Antonis Antoniou, Kathleen Moore, and Jacquelyn Powers. *This lay session is open to the public and will begin promptly at 5:15.*

*This session does not award credit for healthcare providers.  
**This session only awards nursing contact hours.
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7:30-8:15  Registration
8:15-8:30  Welcome

Morning Session

8:30-9:00  Changing paradigms for the treatment of ovarian cancer
          Kathleen Moore, MD, MS
9:00-9:30  The rising relevance of BRCA in the management of pancreatic cancer
          Kim Reiss Binder, MD
9:30-10:00 Update on systemic therapies for patients with a germline BRCA mutation
           Jennifer Litton, MD

10:00-10:30  BREAK

10:30-11:00 Deciding on thresholds for intervention in cancer susceptibility
             Mark Robson, MD
11:00-11:30  VNTRs as modifiers of penetrance and age at cancer diagnosis in BRCA1
             mutation carriers
             Eitan Friedman, MD, PhD
11:30-12:00 Managing variable cancer penetrance in CDH1 carriers - Just follow your gut?
             Bryson Katona, MD, PhD

12:00-1:15  LUNCH
Afternoon Session

1:15-1:45  The problem is choice: Reconsidering ethical and psychological autonomy in the NGS era
Karen Hurley, PhD

1:45-2:15  Using implementation science to inform implementation of a culturally targeted video to enhance the use of genetics services in at-risk Latinas
Alejandra Hurtado de Mendoza, PhD

2:15-2:45  Genetic Counseling Roundup: Updates and trends in practice and genetic testing strategies
Jacquelyn Powers, MS, LCGC

2:45-3:45  Panel Discussion: Cancer Genetics Case Review Moderated by Susan Domchek, MD, with panelists Mark Robson, MD, Bryson Katona, MD, Jennifer Litton, MD, and Jessica Ebrahimzadeh, MS, LCGC

3:45-4:00  Wrap up and Evaluations
Registration Information

This conference is FREE but we strongly recommend registration, as space is limited.

ACCREDITATION AND DESIGNATION OF CREDIT
In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council of Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the health care team.

PHYSICIANS Penn Medicine designates this live activity for a maximum of 11.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSES The program awards 12.75 contact hours.

GENETIC COUNSELORS This event has been submitted to the National Society of Genetic Counselors (NSGC) for approval of Category 1 CEUs. The American Board of Genetic Counseling (ABGC) accepts CEUs approved by NSGC for purposes of recertification. Approval for the requested CEUs and Contact Hours is currently pending.

DISCLOSURES
Penn Medicine, Office of Continuing Medical and Interprofessional Education, adheres to the ACCME Standards for Commercial Support. Faculty and Planner’s disclosure information will be made available at the conference. Faculty members are also expected to disclose to participants any discussion of off-label and/or investigational use of pharmaceutical products or devices within their presentations.

CANCELLATION POLICY
The University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In the event of cancellation or postponement, the University will not be responsible for related costs or expenses to participants, including cancellation fees assessed by hotels, airlines, or travel agencies.

SERVICES FOR THE DISABLED
If special arrangements are required for an individual with a disability to attend this meeting, please contact basserinfo@uphs.upenn.edu by April 27, 2020.

SPECIAL REQUESTS
If special requests for food or other logistics are required, contact basserinfo@uphs.upenn.edu by April 27, 2020.

NONDISCRIMINATION STATEMENT
The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to: Executive Director, Office of Affirmative Action and Equal Opportunity Programs, 3600 Chestnut Street, Sansom Place East, Suite 228, Philadelphia, PA 19104-6106 or 215.898.6993 (Voice) or 215.898.7803 (TDD).
Visiting Information

HOTEL
A block of rooms has been reserved at the Sheraton Philadelphia University City Hotel at a special group rate of $199 per night.

Rooms must be reserved by Sunday, April 12, 2020 to take advantage of the group rate.

For more information, contact Basserinfo@uphs.upenn.edu or call 215.662.4348
Visiting Information

PARKING
Parking will not be available on the medical campus, but public self-pay parking lots available in the University City vicinity can be found at:

- Drexel University Parking Lot – 34th and Market Streets
- University of Pennsylvania Parking Lot – 34th and Chestnut Streets
- University of Pennsylvania Parking Lot - 38th and Walnut Streets

For more information, visit http://cms.business-services.upenn.edu/parking/

PUBLIC TRANSPORTATION
The SEPTA University City train station is within walking distance of the medical campus. For more information, visit www.septa.org.

For more information, contact Basserinfo@uphs.upenn.edu or call 215.662.4348
The Basser Center for BRCA is the first comprehensive center for the research, treatment and prevention of BRCA-related cancers. Devoted to advancing care for people affected by BRCA mutations, the Basser Center’s unique model provides funding for collaborative research, education and outreach programs around the world.

WE TAKE CANCER PERSONALLY.