

BASSER  
CENTER  
FOR BRCA

7<sup>TH</sup> ANNUAL SCIENTIFIC SYMPOSIUM

A CME/CNE - Certified Conference

*BRCA1, BRCA2* and Beyond:  
An Update on Hereditary Cancer

Keynote Speaker and Basser Global Prize Awardee:  
Maria Jasin, PhD

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**TUESDAY, MAY 7, 2019**

**WEDNESDAY, MAY 8, 2019**

Smilow Center for Translational Research  
Auditorium/Commons

(enter through Perelman Center for Advanced Medicine)



Penn 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.

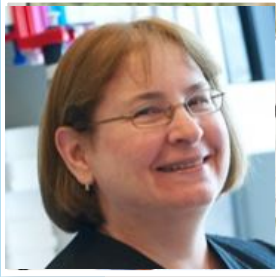
## PROGRAM OBJECTIVES

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 and ovarian cancer.**
- **Discuss new advances in cancer treatment for *BRCA1/2* mutation carriers.**

## 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

### Maria Jasin, PhD

*Memorial Sloan Kettering Cancer Center*

Maria Jasin, PhD, is a member of the Developmental Biology Program at Memorial Sloan Kettering Cancer Center and a professor at the Weill Graduate School of Medical Sciences at Cornell

University. Jasin's research has helped define the roles of *BRCA1* and *BRCA2* in DNA repair, uncover the role of homologous recombination, and has been transformational in the understanding of how cancer is suppressed by genes such as *BRCA1/2*. Her discoveries have led to numerous investigative efforts worldwide, resulting in a greater understanding of how cancer develops and in new therapies that can lengthen the lives of cancer patients. One of her current research efforts is on understanding DNA repair in the breast and different developmental stages and contexts.



## 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 Program. 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. An elected member of the National Academy of Medicine and American Society of Clinical Investigation, Dr. Domchek is also a member of the American Society of Clinical Oncology for which she has served on a number of committees. A significant contributor to the oncology literature, she has authored/co-authored more than 250 articles appearing in scholarly journals including the New England Journal of Medicine, the Journal of the American Medical Association and the Journal of Clinical Oncology. Dr. Domchek also serves on a number of editorial review boards, as well as on the Scientific Advisory Board for the Breast Cancer Research Foundation.

## **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**

*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*

### **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**

### **Robert A. Aronowitz, MD**

*Professor and Chair*

*Department of History and Sociology of Science*

### **Ben Black, PhD**

*Professor*

*Department of Biochemistry and Biophysics*

## **GUEST SPEAKERS**

### **Joan Brugge, PhD**

*Louise Foote Pfeiffer Professor of Cell Biology*

*Chair, Cell Biology, Division of Gynecologic Oncology*

*Harvard Medical School*

### **Sharon Cantor, PhD**

*Associate Professor*

*Department of Molecular, Cell and Cancer Biology*

*University of Massachusetts*

### **Andrea Downing**

*BRCA Community Data Organizer*

*Founder, Brave Bosom*

### **Daniel Durocher, PhD**

*Tom Kierans Research Chair in Mechanisms of Cancer*

*Development*

*Lunenfeld-Tanenbaum Research Institute*

*Mount Sinai Hospital*

### **Gareth Evans, MD, FCRP**

*Professor of Medical Genetics and Cancer Epidemiology*

*University of Manchester*

### **Amanda Brandt Ganzak, MS, LCGC**

*Genetic Counselor*

*Yale University*

## GUEST SPEAKERS CONTINUED

### **Ryan Jensen, PhD**

*Associate Professor*

*Department of Therapeutic Radiology and Pathology*

*Yale School of Medicine*

### **Hannah Klein, PhD**

*Professor of Biochemistry and Molecular Pharmacology*

*Professor of Medicine*

*Professor of Pathology*

*NYU Langone Health*

### **Ranjit Manchanda, MD, MRCOG, PhD**

*Clinical Senior Lecturer*

*Consultant Gynaecological Oncologist*

*Barts Cancer Institute*

*Queen Mary University of London*

### **Kenneth Offit, MD, MPH**

*Chief, Clinical Genetics Service*

*Robert and Kate Niehaus Chair in Inherited Cancer*

*Genomics*

*Vice Chair, Academic Affairs, Department of Medicine*

*Memorial Sloan Kettering Cancer Center*

### **Shailja Pathania, PhD**

*Assistant Professor*

*Department of Cancer Biology*

*University Of Massachusetts*

### **Anya Prince, MPP, JD**

*Associate Professor of Law*

*University of Iowa, College of Law*

### **Mark Robson, MD**

*Chief, Breast Medicine Service*

*Clinic Director, Clinical Genetics Service*

*Memorial Sloan Kettering Cancer Center*

### **Hui Zong, PhD**

*Associate Professor of Microbiology,*

*Immunology, and Cancer Biology*

*University of Virginia, School of Medicine*

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**TUESDAY, MAY 7, 2019**

Smilow Center for Translational Research | Auditorium/Commons

7:30-8:15      Registration

8:15-8:30      Welcome

## **Morning Session**

8:30-9:00      Single-cell analysis of breast tissues from *BRCA1* and *BRCA2* mutation carriers to identify premalignant alterations  
Joan Brugge, PhD

9:00-9:30      Immunogenetics of *BRCA1/2*-associated breast and ovarian cancers  
Katherine L. Nathanson, MD

9:30-10:00     Loss of base excision repair drives chemotherapy resistance in *BRCA2* mutant cancer  
Shailja Pathania, PhD

10:00-10:30    **BREAK**

10:30-11:00    BRCA deficiency and therapy response  
Sharon Cantor, PhD

11:00-11:30    Illuminating the molecular functions of *BRCA2*  
Ryan Jensen, PhD

11:30-12:00    Alternative DNA repair vulnerabilities in BRCA mutant cancers  
Roger Greenberg, MD, PhD

12:00-1:15     **LUNCH**

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## Afternoon Session

- 1:15-1:45      Genome damages and mutations arising from persistent ribonucleotides in DNA  
Hannah Klein, PhD
- 1:45-2:15      Structural basis for PARP-1 trapping  
Ben Black, PhD
- 2:15-2:45      Discovery and characterization of new synthetic lethal interactions with BRCA deficiency  
Daniel Durocher, PhD
- 2:45-3:15      **BREAK**
- 3:15-4:30      Global Prize Presentation and Keynote  
*BRCA2* and the maintenance of genomic integrity  
Maria Jasin, PhD
- 4:30-5:30      Poster Session and Reception
- 5:30-6:30      Breakthroughs and Discoveries Panel moderated by Susan Domchek and featuring Katherine L. Nathanson, Ranjit Manchanda, and Gareth Evans. *This lay session is open to the public and will begin promptly at 5:15.*

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WEDNESDAY, MAY 8, 2019

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7:30-8:15 Registration

8:15-8:30 Welcome

## Morning Session

8:30-9:00 Risk and management of *BRCA1/2* carriers in the Manchester region of the UK

Gareth Evans, MD, FCRP

9:00-9:30 Population testing for precision prevention

Ranjit Manchanda, MD, MRCOG, PhD

9:30-10:00 New strategies to screen populations for cancer susceptibility

Kenneth Offit, MD, MPH

10:00-10:30 **BREAK**

10:30-11:00 Are we ready for broad panel testing in all cancer patients?

Mark Robson, MD

11:00-11:30 Strategies for incorporating germline testing into routine clinical care

Susan Domchek, MD, and Dana Farengo Clark, LCGC

11:30-12:00 Modeling early detection and prevention of *BRCA1*-related breast cancer

Hui Zong, PhD

12:00-1:15 **LUNCH**



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## Afternoon Session

- 1:15-1:45      Historical perspectives on cancer risk  
Robert Aronowitz, MD
- 1:45-2:15      Navigating the landscape of insurance and BRCA  
Anya Prince, PhD
- 2:15-2:45      No knowledge about us without us  
Andrea Downing
- 2:45-3:45      Panel Discussion: Cancer Genetics Case Review  
Moderated by Susan Domchek, MD and featuring Amanda  
Brandt Ganzak, Mark Robson, and Gareth Evans
- 3:45-4:00      **Wrap up and Evaluations**

# Registration Information

**REGISTER ONLINE**

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 **11.75** contact hours.

**GENETIC COUNSELORS** The National Society of Genetic Counselors (NSGC) has authorized BASSER CENTER FOR BRCA to offer up to 1.1 CEUs or 11 Category 1 contact hours for the activity Basser Center for BRCA 7th Annual Scientific Symposium, BRCA1, BRCA2, and Beyond: An Update on Hereditary Cancer. The American Board of Genetic Counseling (ABGC) will accept CEUs earned at this program for the purposes of genetic counselor certification and recertification.

## 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](mailto:basserinfo@uphs.upenn.edu) by April 12, 2019.

## SPECIAL REQUESTS

If special requests for food or other logistics are required, contact [basserinfo@uphs.upenn.edu](mailto:basserinfo@uphs.upenn.edu) by April 12, 2019.

## 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

## PENN MEDICINE CAMPUS MAP



### HOTEL

A block of rooms has been reserved at the **Sheraton Philadelphia University City Hotel** at a special group rate of \$194 per night.

Rooms must be reserved by **Monday, April 15, 2019** to take advantage of the group rate.

**RESERVE YOUR ROOM**

For more information, contact [Basserinfo@uphs.upenn.edu](mailto:Basserinfo@uphs.upenn.edu) or call 215.662.4348

# Visiting Information

## PARKING

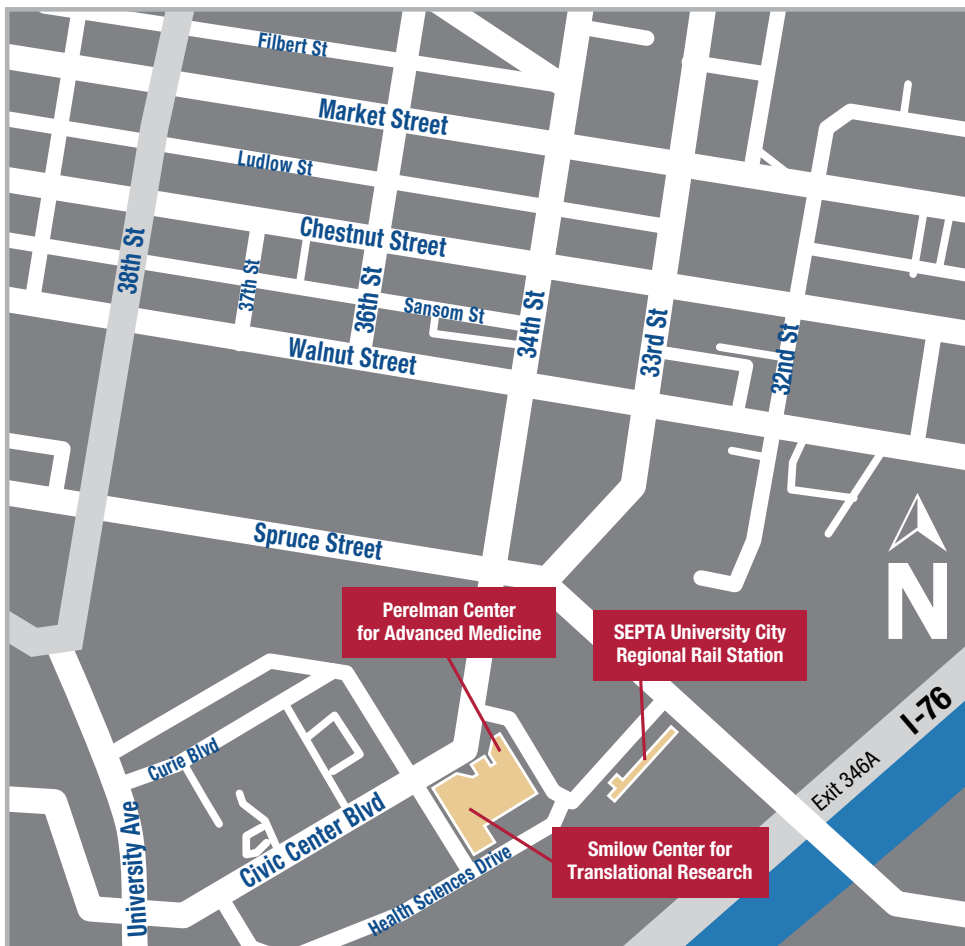
Parking will not be available on the medical campus, but public self-pay parking lots available in the University City vicinity can be found at:

- 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](http://www.septa.org).



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.

BASSER  
CENTER  
FOR BRCA

