

BASSER
CENTER
FOR BRCA

7TH 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

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.

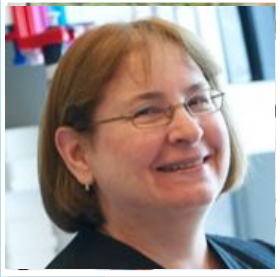
PROGRAM OBJECTIVES

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

BASSER CENTER FOR BRCA

7TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

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**

BASSER CENTER FOR BRCA

7TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

TUESDAY, MAY 7, 2019

Smilow Center for Translational Research | Auditorium/Commons

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.*

BASSER CENTER FOR BRCA

7TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

WEDNESDAY, MAY 8, 2019

Smilow Center for Translational Research | Auditorium/Commons

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**

BASSER CENTER FOR BRCA

7TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

WEDNESDAY, MAY 8, 2019

Smilow Center for Translational Research | Auditorium/Commons

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 the 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 by April 12, 2019.

SPECIAL REQUESTS

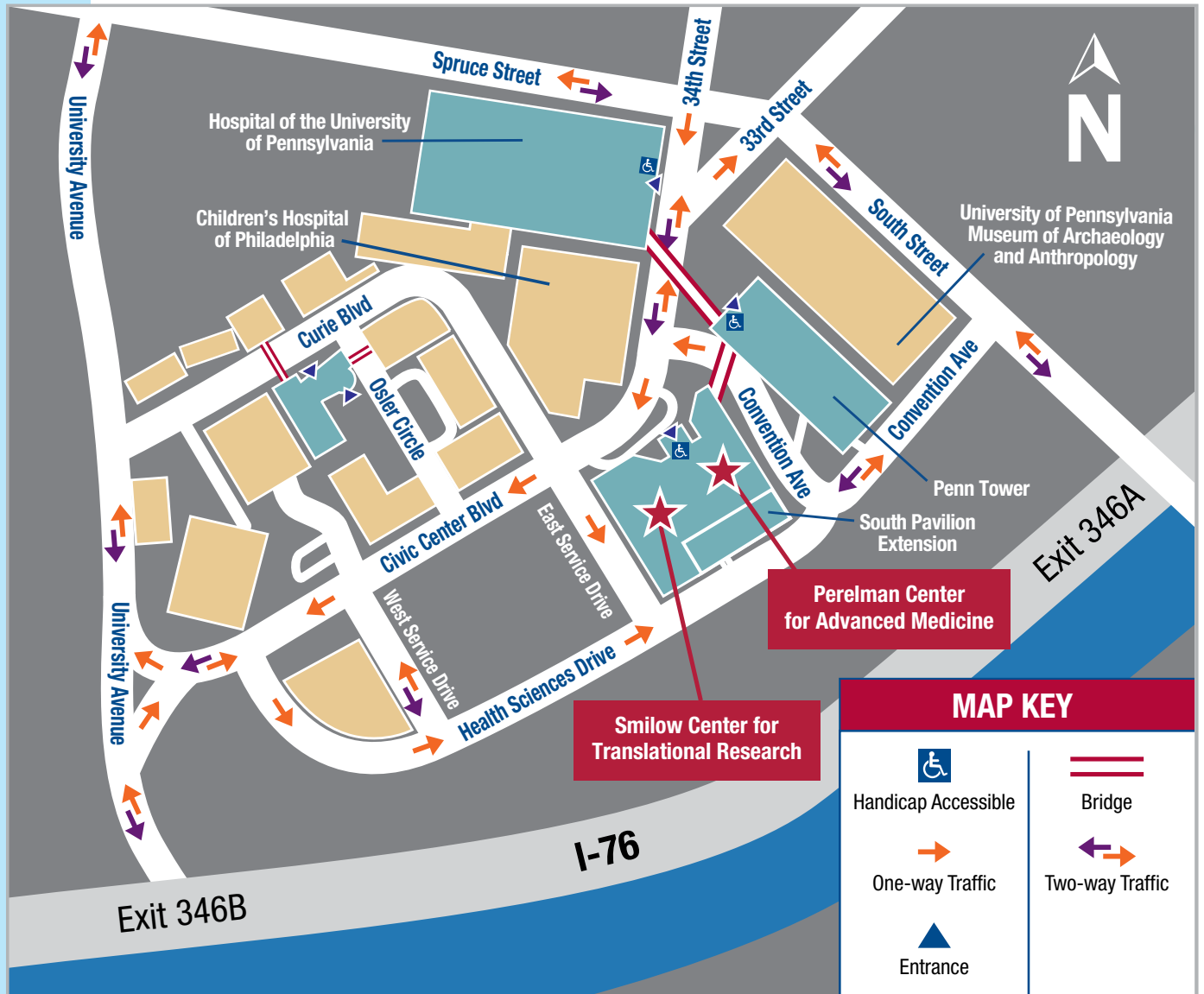
If special requests for food or other logistics are required, contact basserinfo@uphs.upenn.edu by April 12, 2019.

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](#)

Visiting Information

PARKING

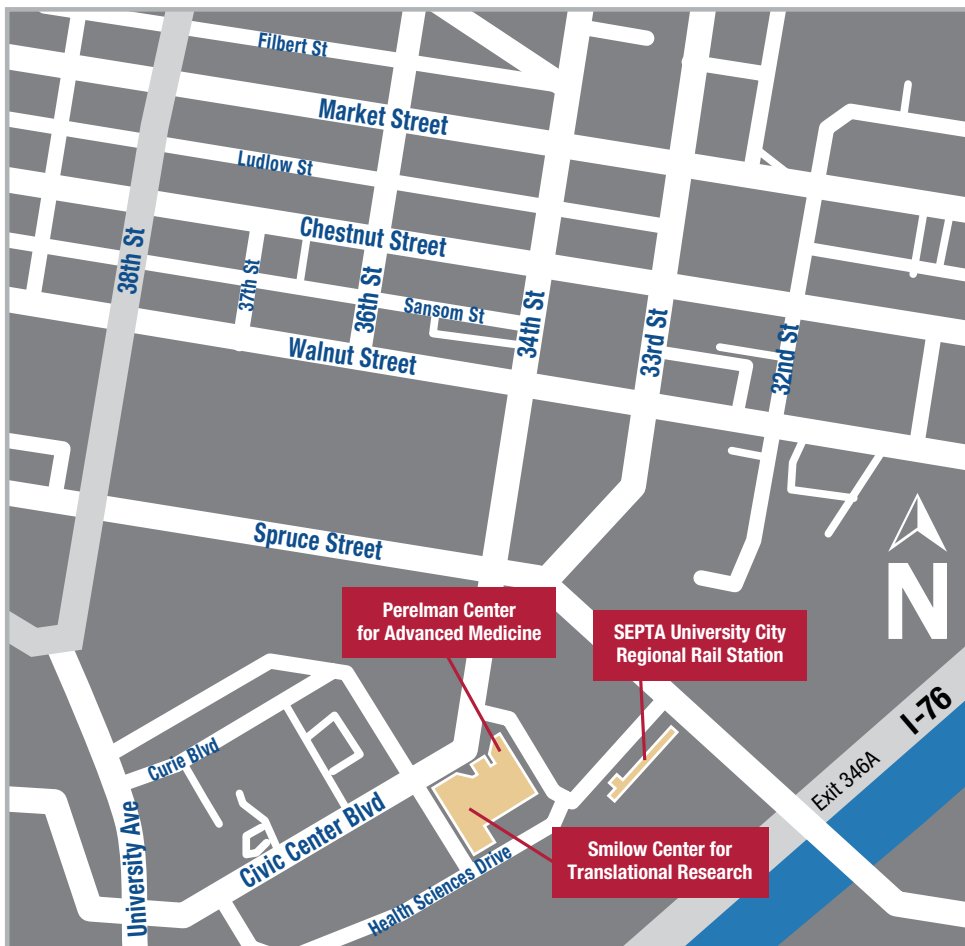
Parking will not be available on the medical campus, but public self-pay parking lots available in the University City vicinity can be found at:

- 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.



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

