

BASSER
CENTER
FOR BRCA

11TH ANNUAL SCIENTIFIC SYMPOSIUM

A CME/CNE – Certified Conference

BRCA1, BRCA2 and Beyond:
An Update on Hereditary Cancer

Keynote Speaker and Basser Global Prize Awardee:
Fergus Couch, PhD

MONDAY, MAY 8 – TUESDAY, MAY 9, 2023

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

The 2023 Symposium is dedicated in memory of Steve Price



Penn Medicine

Program Overview

This hybrid symposium is designed to educate researchers, scientists, and health care providers in cancer genetics by presenting cutting-edge data from renowned researchers and clinicians. This symposium will provide new information on progress in cancer screening and prevention, as well as ongoing work in targeted therapy for *BRCA1/2* and other mutation carriers through a series of lectures and panel discussions.

PROGRAM OBJECTIVES

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

- **Discuss new research on the genetic epidemiology of *BRCA1/2* and other homologous recombination deficiency (HRD) 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, physician assistants and nurses/nurse practitioners who are interested in the genetics of *BRCA1/2* related cancers.



KEYNOTE SPEAKER AND BASSER GLOBAL PRIZE AWARDEE

Fergus J. Couch, PhD

*Chair, Division of Experimental Pathology and Laboratory Medicine
Mayo Clinic*

The Basser Center is honored to announce that Fergus Couch, PhD, of the Mayo Clinic is the recipient of the 10th annual Basser Global Prize. Dr. Couch is the Zbigniew and Anna M. Scheller Professor of Medical Research affiliated with the Mayo Clinic Comprehensive Cancer Center, and the Center for Individualized Medicine. He is a principal investigator of the Mayo Clinic Breast Cancer Registry and the Triple Negative Breast Cancer Consortium. Dr. Couch has made numerous practice-changing contributions to our understanding of *BRCA1/2* and was involved in the search for the genes in the 1990s, establishing associations between pathogenic variants in these genes and male breast cancer.

He contributed substantially to understanding the role of *BRCA1/2* in pancreatic cancer by estimating precise risks of pancreatic cancer associated with pathogenic variants in *BRCA1/2* and other genes, and developed the first mouse model of *BRCA2* deficient pancreatic cancer. He was a Cofounder of the Consortium of Investigators of Modifiers of *BRCA1/2* (CIMBA), and leader of the international Evidence-based Network for the Interpretation of Germline Mutant Alleles (ENIGMA) and led the first genome wide association study (GWAS) of *BRCA* mutation carriers and triple negative breast cancer. These ongoing efforts have led to the development of polygenic risk scores (PRS) for personalization of cancer risks. Dr. Couch has published 563 manuscripts in peer reviewed journals and has been continuously funded for the last 18 years through the NIH.



BRCA IMPACT AWARD RECIPIENT

Mary B. Daly, MD, PhD

Professor, Department of Clinical Genetics

Fox Chase Cancer Center

The Basser Center is pleased to announce that Mary Daly, MD, PhD is the inaugural winner of the BRCA Impact Award, created to recognize a national leader in the field of cancer genetics. Dr. Daly is the founder and director of one of the first cancer risk assessment and counseling programs in the country at Fox Chase Cancer Center. The program has contributed to early observations regarding risk perception and risk-reducing behavior among women with a family history of breast and/or ovarian cancer, and has been instrumental in the development of state-of-the-art cancer risk counseling interventions. Dr. Daly's primary areas of research include the epidemiologic and genetic aspects of breast and ovarian cancer, and the translation of this information into effective cancer control approaches. Dr. Daly is the Editor-in-Chief of the PDQ Cancer Genetics Board. She has co-authored over 225 peer-reviewed publications and has served on a number of editorial boards.



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 patients with genetic risk factors. An elected member of the National Academy of Medicine, Dr. Domchek is also a significant contributor to the oncology literature. She has authored/co-authored more than 400 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, among others.

SYMPOSIUM CO-ORGANIZERS

Ronald Drapkin, MD, PhD

*Franklin Payne Associate Professor of Pathology in
Obstetrics & Gynecology*

Director, Penn Ovarian Cancer Research Center

*Director of Gynecologic Cancer Research,
Basser Center for BRCA*

Dana Farengo Clark, MS, MS, LCGC

Senior Genetic Counselor

*Mariann & Robert MacDonald Cancer Risk
Evaluation Center*

Basser Center for BRCA

Adam Fredo, PA-C

Physician Assistant

Medical Oncology

Penn Medicine

Roger Greenberg, MD, PhD

*J. Samuel Staub, MD, Professor, Department of
Cancer Biology*

Director, Penn Center for Genome Integrity (PCGI)

Director of Basic Science, Basser Center for BRCA

Mosetta Harris, CRNP

Nurse Practitioner

Rena Rowan Breast Center

Penn Medicine

Katherine Nathanson, MD

Pearl Basser Professor of BRCA-Related Research

Deputy Director, Abramson Cancer Center

Director of Genetics, Basser Center for BRCA

PENN MEDICINE FACULTY

George Burslem, PhD

Assistant Professor

Department of Biochemistry and Biophysics

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Jacqueline Cappadocia, MS, LCGC

Genetic Counselor

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Bryson Katona, MD, PhD

Assistant Professor of Medicine

*Director, Gastrointestinal Cancer Genetics
and Gastrointestinal Cancer Risk Evaluation Programs*

Timothy Lippert, PhD

Postdoctoral Research Fellow

Danielle McKenna, MS, LCGC

Genetic Counselor

*Mariann & Robert MacDonald Cancer Risk
Evaluation Center*

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Kim A. Reiss, MD

Assistant Professor of Medicine

*Assistant Program Director of the Hematology/
Oncology Fellowship Program*

Fiona Simpkins, MD

Professor of Obstetrics and Gynecology

GUEST SPEAKERS

Alexander Bick, MD, PhD

Assistant Professor, Medicine, Division of
Genetic Medicine
Vanderbilt University Medical Center

Katherine Chiappinelli, PhD

Assistant Professor
Department of Microbiology, Immunology,
and Tropical Medicine
George Washington University

Wendy Chung, MD

Medical Director, Columbia Genetic Counseling
Graduate Program
Associate Director of Education, Herbert Irving
Comprehensive Cancer Center
Chief, Division of Clinical Genetics, Department
of Pediatrics
Columbia University

Leif Ellisen, MD, PhD

Professor of Medicine
Program Director, Breast Medical Oncology
Clinical Director, Breast and Ovarian Cancer Genetics
Harvard Medical School

Andrew Godwin, PhD

Chancellors Distinguished Chair in Biomedical Sciences
Professor and Division Director, Genomic Diagnostics,
Department of Pathology & Laboratory Medicine
Founding Director, Kansas Institute for Precision Medicine
Deputy Director, University of Kansas Cancer Center

Christopher Lord, DPhil

Professor of Cancer Genetics, Head, CRUK Gene
Function Laboratory
Deputy Director, The Breast Cancer Now Toby Robins
Research Centre
Deputy Head of the Division of Breast Cancer Research
The Institute of Cancer Research

Bruce Montgomery, MD

Clinical Director, Genitourinary
Professor, Medical Oncology Division
University of Washington School of Medicine

Steven Narod, MD, FRCPC, FRSC

Professor and Canada Research Chair in Breast Cancer
University of Toronto

Shailja Pathania, PhD

Associate Professor of Biology - Cancer Biology
Center for Personalized Cancer Therapy
University of Massachusetts

Mark Robson, MD

Chief, Breast Medicine Service
Lead, Inherited Breast Cancer Genomics,
Niehaus Center
Memorial Sloan Kettering Cancer Center

Sudhir Srivastava, PhD, MPH

Chief, Cancer Biomarkers Research Group
Division of Cancer Prevention
National Cancer Institute

Clive Svendsen, PhD

Professor and Executive Director, Board of Governors
Regenerative Medicine Institute
Kerry and Simone Vickar Family Foundation
Distinguished Chair in Regenerative Medicine
Cedars-Sinai Medical Center

Paola Vermeer, PhD

Associate Scientist
Cancer Biology and Immunotherapies Group
Sanford Research

BASSER CENTER FOR BRCA

11TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

MONDAY, MAY 8, 2023

8:00-8:45am Registration

8:45-9:00am Welcome

Morning Session

9:00-9:30am **Leif Ellisen, MD, PhD**
Precancerous phenotypes in the *BRCA1/2*-mutant breast

9:30-10:00am **Timothy Lippert, PhD**
DNA damage-driven inflammasome activation in *BRCA2* mutant ovarian cancer

10:00-10:30am **Katherine Chiappinelli, PhD**
Probing the relationship between *BRCA1*, *P53*, and transposable elements in ovarian cancer initiation and progression

10:30-11:00am BREAK

11:00-11:30am **Clive Svendsen, PhD**
Using iPSC technology to model BRCA related cancers

11:30am-12:00pm **Shailja Pathania, PhD**
Tracking the path of tumorigenesis in *BRCA1* mutant breast and ovarian cancer

12:00-12:30pm **Chris Lord, DPhil**
Exploiting synthetic lethality in cancer

12:30-1:30pm LUNCH

Afternoon Session

1:30-2:00pm **Paola Vermeer, PhD**
Tumor innervation in ovarian cancer

2:00-2:30pm **Andrew Godwin, PhD**
Ovarian and fallopian tube crosstalk via extracellular vesicles promotes the origin of ovarian cancer and the precancerous landscape

2:30-3:00pm **Fiona Simpkins, MD**
Strategies to overcome PARP inhibitor resistance in *BRCA1/2* mutant ovarian cancer

3:00-3:30pm BRCA Impact Award
Mary Daly, MD, PhD
Addressing the burden of breast cancer: It takes a village

3:30-4:30pm Poster session (in person only)

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11TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

TUESDAY, MAY 9, 2023

8:00-8:45am Registration

8:45-9:00am Welcome

Morning Session

9:00-9:30am **Wendy Chung, MD**
Genomic integrated risk assessment for breast cancer across patients of diverse ancestry: The eMERGE experience

9:30-10:00am **Alexander Bick, MD, PhD**
Clonal hematopoiesis: Diagnosis, prognosis and management

10:00-10:30am **Mark Robson, MD**
BRCA1/2 and the MSKCC Impact experience

10:30-11:00am **Bruce Montgomery, MD**
Finding and targeting homologous recombination deficiency in prostate cancer: Old wine in new bottles?

11:00-11:30am BREAK

11:30am-12:00pm **Sudhir Srivastava, PhD, MPH**
Liquid biopsy in cancer detection: Is it ready for prime time?

12:00-12:30pm **Danielle McKenna, MS, LCGC**
Year in review: Updates and trends in hereditary cancer genetic counseling

12:30-1:00pm **Bryson Katona, MD, PhD**
Pancreatic cancer surveillance for all *BRCA1/2* carriers? Pros, cons, and weighing the evidence

1:00-2:00pm LUNCH

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TUESDAY, MAY 9, 2023

Afternoon Session

2:00-3:15pm

Global Prize Presentation and Keynote

Fergus Couch, PhD

Variations on a theme by *BRCA1* and *BRCA2*

3:15-4:30pm

Case Panel moderated by Susan Domchek, MD with:

Avi Anantharajah, MS, LCGC; Jackie Cappadocia, MS, LCGC;

Steven Narod, MD and Mark Robson, MD

5:00-6:00pm

Breakthroughs & Discoveries Panel Moderated by Dave Price, Weather Anchor WNBC-TV, with panelists : Susan Domchek, MD; Fergus Couch, PhD; Kim A. Reiss, MD and Bryson Katona, MD, PhD

This lay session is open to the public, and in person only

Registration Information

REGISTER ONLINE

This conference is **FREE** but we strongly recommend registration. Registration is required for continuing education credits.

ACCREDITATION AND DESIGNATION OF CREDIT

In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for 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.

NURSE/NURSE PRACTITIONERS The program will award 10.75 NCPD hours.

PHYSICIANS Penn Medicine designates this live activity for a maximum of 10.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

PHYSICIAN ASSISTANTS AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credits™* from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of 10.75 Category 1 credits for completing this activity.

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.

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@pennmedicine.upenn.edu by April 28, 2023.

SPECIAL REQUESTS

If special requests for food or other logistics are required, contact basserinfo@pennmedicine.upenn.edu by April 28, 2023.

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 \$199 per night.

Rooms must be reserved by April 10, 2023 to take advantage of the group rate.

[RESERVE YOUR ROOM](#)

COVID GUIDELINES

Penn Medicine's COVID guidelines for visitors to campus can be found [here](#).

PARKING

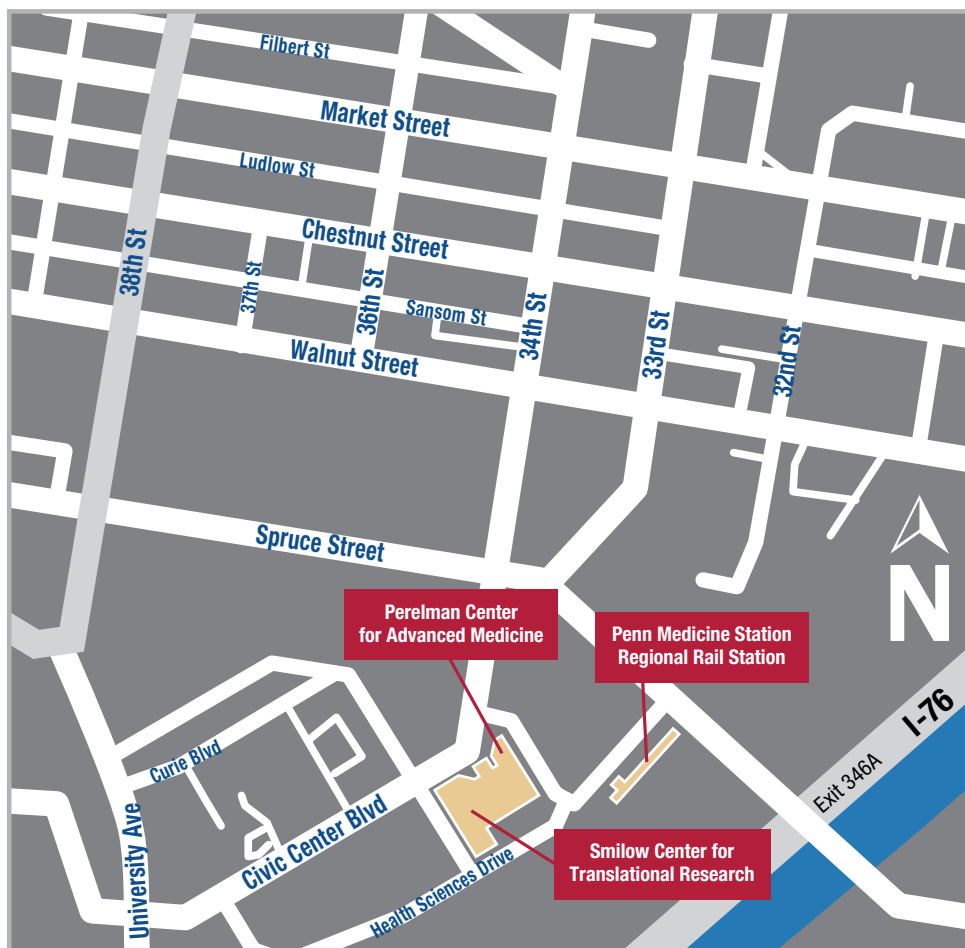
Parking will not be available on the medical campus, but public self-pay parking lots available in the University City vicinity can be found at:

- **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 Penn Medicine Station (formerly University City 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.

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