

BASSER
CENTER
FOR BRCA

9TH ANNUAL SCIENTIFIC SYMPOSIUM

BRCA1, BRCA2 and Beyond:
An Update on Hereditary Cancer

Keynote Speaker and Basser Global Prize Awardee:

Bella Kaufman, MD

**TUESDAY, MAY 11 –
WEDNESDAY, MAY 12, 2021**



Penn Medicine

Program Overview

This virtual 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 and nurses/nurse practitioners who are interested in the genetics of *BRCA1/2* related cancers.



KEYNOTE SPEAKER AND BASSER GLOBAL PRIZE AWARDEE

Bella Kaufman, MD

Sheba Medical Center in Tel-Hashomer, Israel

Dr. Kaufman is the Director of the Breast Oncology Institute, as well as the President of Sheba Comprehensive Cancer Center, at the Sheba Medical Center. She is a founder and leader of the Israeli

Consortium for Hereditary Breast Cancer and is an international leader in the breast cancer and BRCA research communities. Dr. Kaufman has been an investigator on many important clinical trials, such as several essential to the development of PARP inhibitors for the treatment of BRCA-related cancers, and she has published more than 125 papers and presented at dozens of scientific meetings around the world.

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, Dr. Domchek is also a significant contributor to the oncology literature. She has authored/co-authored more than 350 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

*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
Director of Basic Science, Basser Center for BRCA
Director, Penn Center for Genome Integrity*

Mosetta Harris, CRNP

*Nurse Practitioner
Rena Rowan Breast Center*

Katherine L. Nathanson, MD

*Pearl Basser Professor of BRCA-Related Research
Deputy Director, Abramson Cancer Center
Director of Genetics, Basser Center for BRCA*

PENN MEDICINE FACULTY

Kim Reiss Binder, MD

*Assistant Professor of Medicine
Basser Center for BRCA Researcher*

Bryson Katona, MD, PhD

*Assistant Professor of Medicine
Director, Gastrointestinal Cancer Genetics Program*

Jessica Long, MS, LCGC

*Senior Genetic Counselor
Mariann & Robert MacDonald Cancer Risk Evaluation Center
Basser Center for BRCA*

Andy Minn, MD, PhD

*Professor of Radiation Oncology
Director of the Mark Foundation Center for Immunotherapy, Immune Signaling, and Radiation*

Priyanka Verma, PhD

*Postdoctoral Researcher
Department of Cancer Biology*

GUEST SPEAKERS

Dipanjan Chowdhury, PhD

*Associate Professor, Radiation Oncology
Dana-Farber Cancer Institute*

Fergus Couch, PhD

*Zbigniew and Anna M. Scheller Professor of
Medical Research
Department of Laboratory Medicine and Pathology
Mayo Clinic*

Douglas Easton, PhD

*Director of the Centre for Cancer Genetic Epidemiology
University of Cambridge*

Rama Khokha, PhD

*Professor of Medical Biophysics
University of Western Ontario*

Jennifer Litton, MD

*Department of Breast Medical Oncology
MD Anderson Cancer Center*

Kathleen Moore, MD, MS

*Associate Professor of Gynecologic Oncology
Associate Director Clinical Research
University of Oklahoma*

Jo Morris, PhD

*Professor of Molecular Genetics
Institute of Cancer and Genomic Sciences
University of Birmingham*

Feyruz Rassool, PhD

*Professor of Radiation Oncology
University of Maryland*

Mark Robson, MD

*Chief, Breast Medicine Service
Clinic Director, Clinical Genetics Service
Memorial Sloan Kettering Cancer Center*

Kavitha Sarma, PhD

*Assistant Professor
Gene Expression & Regulation Program
The Wistar Institute*

Ralph Scully, MBBS, PhD

*Professor of Medicine, Harvard Medical School and
Beth Israel Deaconess Medical Center
Co-Director, Program in DNA Repair and Genomic
Instability
Dana-Farber Cancer Center*

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9TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

TUESDAY, MAY 11, 2021

8:15-8:30 am	Welcome and introductions
8:30-9:00 am	The rising relevance of BRCA in the management of pancreatic cancer Kim Reiss Binder, MD
9:00-9:30 am	Changing paradigms for the treatment of ovarian cancer Kathleen Moore, MD, MS
9:30-10:00 am	Update on systemic therapies for patients with a germline BRCA mutation Jennifer Litton, MD
10:00-10:15 am	BREAK
10:15-11:30 am	Global Prize presentation and keynote address "From Broca to BRCA and Beyond" Bella Kaufman, MD
11:30-12:00 pm	The role of <i>BRCA1</i> in stalled replication fork protection Jo Morris, PhD
12:00-12:30 pm	Interactions between FANCM and <i>BRCA1</i> at stalled replication forks Ralph Scully, MBBS, PhD
12:30-1:00 pm	A new chromatin directed vulnerability in BRCA mutated cancers Priyanka Verma, PhD

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TUESDAY, MAY 11, 2021

1:00-1:15 pm	BREAK
1:15-1:45 pm	New factors in DNA double strand break repair impact on cancer therapy Dipanjan Chowdhury, PhD
1:45-2:15 pm	Mammary epithelial heterogeneity guides lineage-specific vulnerabilities Rama Khokha, PhD
2:15-2:45 pm	R-loop dynamics in BRCA deficient cancers Kavitha Sarma, PhD
2:45-3:15 pm	Expanding PARP inhibitors beyond BRCA mutations: Linking DNA damage to immune signaling Feyruz Rassool, PhD
3:15-3:45 pm	Dissecting and targeting the opposing roles of interferon signaling in cancer immunotherapy Andy Minn, MD, PhD
3:45 pm	WRAP UP

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9TH ANNUAL SCIENTIFIC SYMPOSIUM AGENDA

WEDNESDAY, MAY 12, 2021

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|-----------------------|---|
| 8:30-8:45 am | Welcome and introductions |
| 8:45 am-9:15 am | Managing variable cancer penetrance in <i>CDH1</i> carriers - Just follow your gut?
Bryson Katona, MD, PhD |
| 9:15-9:45 am | CARRIERS Study
Fergus Couch, PhD |
| 9:45-10:15 am | BRIDGES Study
Douglas Easton, PhD |
| 10:15-11:15 am | Case panel moderated by Susan Domchek, MD, with Mark Robson, MD and Basser Center genetic counselor Jessica Long, MS, LCGC |
| 11:15-11:30 am | BREAK |
| 11:30-12:30 pm | Breakthroughs and Discoveries Panel moderated by Susan Domchek, MD featuring panelists Bella Kaufman, MD, Kathleen Moore, MD, MS, and Kim Reiss Binder, MD.
<i>This lay session is open to the public.</i> |
| 12:30 pm | WRAP UP |

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 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 healthcare team.

PHYSICIANS Penn Medicine designates this live activity for a maximum of 11 *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 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.

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).

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.

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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