



Global Challenge to
PREVENT Breast Cancer



May 15, 2019

IDEA SHOWCASE AND COMPETITION



“ We must tackle prevention – starting with innovative research – if we are going to reduce the incidence of breast cancer. ”

– Margaret L. Kripke, Ph.D.



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Agenda

9:00 **Welcome**

Marion H.E. Kavanaugh-Lynch, M.D., MPH
Director, California Breast Cancer Research Program

JoAnn Loulan
Council Member, California Breast Cancer Research Program

9:15 - 11:00 **Finalist Presentations**

Victoria Seewaldt, M.D.
Professor and Chair, City of Hope
Breast Cancer Prevention: Awareness, Avoid, Advocacy

Michele Atlan
Vice President, Breast Cancer Care & Research Fund
Spice it Up: A New Way to Use Curcumin

Thea D. Tlsty, Ph.D.
Professor of Pathology, University of California San Francisco
The Mother of All Primary Prevention Assays

Gertrude C. Buehring, Ph.D.
Professor of Virology, University of California Berkeley, School of Public Health
To Prevent Breast Cancer, Eradicate Bovine Leukemia Virus (BLV) in Cattle

Nancy Buermeier, M.S.
Senior Policy Strategist, Breast Cancer Prevention Partners
California Ports: Air Pollution Interventions and Breast Cancer Risk in Local Communities

Vincent Bessonneau, Ph.D.
Research Scientist, Silent Spring Institute
Mapping the Human Exposome to Uncover the Causes of Breast Cancer

Agenda (cont.)

Barbara Adler Cohn, Ph.D.

*Research Director, Child Health and Development Studies,
Public Health Institute*

Environmental Breast Density: The Clue to Preventing Breast Cancer

Laura Markuly

Owner/Exercise Physiologist, Bodyology Sports Performance, LLC

Low Dose Naltrexone (LDN): The New Breast Cancer Prevention

Andrea R. Hindman, Ph.D.

Postdoctoral Researcher, Silent Spring Institute

Keeping Abreast of Prevention in Chemical Safety Testing

Hannah Lui Park, Ph.D.

Assistant Professor, University of California Irvine

In Utero and Pre-Conception Determinants of Breast Cancer Risk

11:00 Audience Voting

Audience votes for the Audience Choice Award

11:00 - 11:30 Keynote: "The Amazing Breast"

Susan M. Love, M.D., MBA

Chief Visionary Officer, Dr. Susan Love Research Foundation

11:30 - 12:00 Awards Presentation

Marion H.E. Kavanaugh-Lynch, M.D., MPH

JoAnn Loulan

12:00 - 1:00 Lunch



About the Global Challenge to Prevent Breast Cancer

Launched last fall by the California Breast Cancer Research Program (CBCRP), the Global Challenge was designed to uncover transformative prevention research ideas. The 10 finalists who present today were selected from dozens of applications that were submitted to the Global Challenge.

Despite decades of advancement in treatment research, people continue to be diagnosed with breast cancer at astounding rates – rates that have remained essentially unchanged over the past three decades. And, of the nearly \$2 billion that are spent on cancer research each year, less than 10 percent is dedicated to prevention. CBCRP hopes the prevention research ideas that are presented today will help catalyze an entirely new direction in research – focused on prevention. CBCRP will invest \$15 million over five years in grant funding to develop the best ideas from the challenge.

The challenge is one of the signature commitments to the Biden Cancer Community Summit, the Biden Cancer Initiative's nationwide effort to double the rate of progress against cancer.

For more information: ToPreventBreastCancer.org



CALIFORNIA
BREAST CANCER
RESEARCH PROGRAM

About the California Breast Cancer Research Program

The mission of the California Breast Cancer Research Program (CBCRP) is to prevent and eliminate breast cancer by leading innovation in research, communication, and collaboration in the California scientific and lay communities. CBCRP is the largest state-funded breast cancer research effort in the United States and is administered within the University of California Office of the President. Since 1994, CBCRP has awarded more than \$280 million in research funds to institutions across California. CBCRP strives to push research in areas that are often underfunded or overlooked, including environmental exposures, health disparities, and primary prevention.

For more information: CABreastCancer.org

Emcee



JoAnn Loulan

Council Member
California Breast Cancer Research Program

JoAnn Loulan's major connection to CBCRP, besides being a Council Member, is that she had breast cancer twice – the first time at age 44 and her last cancer was eight years ago. She also lost her mother to breast cancer at an early age. She believes that there is not enough progress in stopping cancer where it starts and wants to make an impact in stopping this disease that still kills 45,000 women a year. Breast cancer is not cured. JoAnn is a Marriage Family Therapist and an activist in breast cancer, progressive politics, and lesbian rights since 1968. JoAnn is the author of three books and co-author of one; she is a graduate of Northwestern University (BA,BS) and San Francisco University (MS); she is also a mother and grandmother. She started organizations to further progressive politics: Electing Women Bay Area (helping to fund progressive women running for office) and Local Majority (doing research for state legislative candidates).

Keynote Speaker



Susan M. Love, M.D., MBA

Chief Visionary Officer

Dr. Susan Love Research Foundation

Susan M. Love, M.D., MBA, has dedicated her professional life to the eradication of breast cancer. As chief visionary officer of Dr. Susan Love Research Foundation, she oversees an innovative research program centered on breast cancer cause and prevention. She is also a clinical professor of surgery at UCLA's David Geffen School of Medicine. One of the founders of the National Breast Cancer Coalition, Dr. Love is well known as a trusted guide to women worldwide through the Foundation's ImPatient Science education program and her books, including *Dr. Susan Love's Breast Book*, now in its sixth edition. The Foundation's recent groundbreaking initiatives include the Army of Women, developed to partner women and scientists to accelerate translational research, and the Health of Women (HOW) Study, an online cohort study aimed at identifying the cause of breast cancer. Among the Foundation's collaborative research projects are the development of an NIH-funded self-reading ultrasound technology for triage of palpable breast lumps, an analysis of the anatomy of the breast ductal system, and an investigation into the microbiome of the breast ducts. Dr. Love received her medical degree from SUNY Downstate Medical Center in New York. She trained at Boston's Beth Israel Hospital, was an early member of the Multidisciplinary Breast Center at Dana Farber Cancer Center, and founded the Faulkner Breast Center and the Revlon UCLA Breast Center. She received her business degree from the Executive MBA program at UCLA's Anderson School of Management.

Presenter #1 — Researcher Category



Victoria Seewaldt, M.D.

Professor and Chair
City of Hope

Victoria Seewaldt, M.D., is a Professor and leader at City of Hope Comprehensive Cancer Center. Dr. Seewaldt's career is devoted to 1) improving breast cancer prevention and 2) creating awareness of cancer-causing agents in the environment. To this end, she is a community-advocate and leads several large national breast cancer prevention trials. Dr. Seewaldt believes that our next generation leadership needs to reflect the diversity of the United States. Dr. Seewaldt is a mentor to many young men and women from diverse backgrounds; she is very proud that her students have become professors and leading physicians.

ADDITIONAL TEAM MEMBERS:

**Chris Sistrunk, Ph.D., and the
SoCal STEM and Community Outreach Team**



BOLD IDEA

Breast Cancer Prevention: Awareness, Avoid, Advocacy

Young women are exposed to carcinogens during puberty; here we will create awareness, help young women avoid exposure, and create advocacy.

Presenter #2 — Advocate Category



Michele Atlan

Vice President

Breast Cancer Care & Research Fund

Michele Atlan has been a breast cancer survivor since 2013. After her diagnosis, Michele became certified as an Emergency Medical Technician. She graduated from the National Breast Cancer Coalition's (NBCC) Project LEAD in 2015, subsequently participated in the Advanced LEAD program and became a Project LEAD mentor in July 2017. Currently serving as the vice-president of the Breast Cancer Care & Research Fund (BCCRF) in Los Angeles, Michele has participated as a consumer reviewer for the DoD's Breast Cancer Research Program, as well as a consumer advocate on multiple grant applications. In 2018, Michele became a board member of the NBCC.



BOLD IDEA

Spice it Up: A New Way to Use Curcumin

Imagine being able to repurpose an inexpensive and abundant natural ingredient to prevent breast cancer, while also enhancing skin health.

Presenter #3 — Researcher Category



Thea D. Tlsty, Ph.D.

Professor of Pathology
University of California San Francisco

Thea Tlsty, Ph.D., is a molecular pathologist and Professor of Pathology at the University of California, San Francisco, CA. She received her Ph.D. from Washington University and trained at Stanford University before she joined the faculty at UCSF in 1994 where she is currently Director of the Center for Translational Research in the Molecular Genetics of Cancer. She serves as an Avon Scholar and Komen Scholar, studying breast cancer research. Dr. Tlsty studies genetic, epigenetic and functional changes involved in the earliest steps of cancer and how interactions between stromal components and epithelial cells collaborate to moderate carcinogenesis.



BOLD IDEA

The Mother of All Primary Prevention Assays

Just as blood pressure is used to monitor risks of cardiovascular disease, monitoring key facilitators of cancer, chronic inflammation, can be used to monitor risk of breast cancer.

Presenter #4 — Researcher Category



Gertrude C. Buehring, Ph.D.

Professor of Virology
University of California Berkeley
School of Public Health

Gertrude C. Buehring's research has focused on breast cancer throughout her 46 years as a professor in the School of Public Health, University of California, Berkeley. She became determined to do something about breast cancer when she was 13 and her mother died of it. In 1981, Dr. Buehring conceived the idea that a cow virus might be a cause. When more sensitive laboratory techniques became available in 1989, she could identify bovine leukemia virus in human breast tissues and prove it could cause breast cancer. Her group's research results have been cited and confirmed globally by other scientists.



BOLD IDEA

To Prevent Breast Cancer, Eradicate Bovine Leukemia Virus (BLV) in Cattle

Since about 60% of US breast cancers are caused by bovine leukemia virus (BLV), eradicating BLV from cattle could dramatically reduce future breast cancer incidence.

Presenter #5 — Advocate Category



Nancy Buermeyer, M.S.

Senior Policy Strategist
Breast Cancer Prevention Partners

Nancy works at the state and federal levels to advance public policy to reduce exposures to toxic chemicals, including ingredient transparency, funding for environmental health programs and updates to the Toxic Substances Control Act. She played a leadership role in passing California's 2017 groundbreaking legislation to require cleaning product ingredient disclosure. Before joining BCPP, Nancy spent over 20 years in Washington DC advocating for numerous causes, including civil rights for women and the LGBT community. She graduated from the University of Pittsburgh with a Bachelor of Science in Biology and earned a master's degree in Biological Oceanography from the University of Connecticut.

ADDITIONAL TEAM MEMBER:

Janet Nudelman, M.A.

Director of Program & Policy
Breast Cancer Research Prevention Partners



BOLD IDEA

California Ports: Air Pollution Interventions and Breast Cancer Risk in Local Communities

Biomonitoring residents living near California ports before and after implementation of pollution reduction policies will provide evidence of their effectiveness at reducing exposures to chemicals linked to breast cancer.

Presenter #6 — Researcher Category



Vincent Bessonneau, Ph.D.

Research Scientist
Silent Spring Institute

Dr. Vincent Bessonneau is a research scientist with expertise in environmental health and metabolomics. His research centers on the use of the exposome concept (i.e. the totality of environmental exposures that an individual experiences in a lifetime) to identify adverse health outcomes risk biomarkers, and provide new insights into the etiology and biological mechanisms involved and associated with environmental exposures. His research on metabolomics is being applied to identify previously unknown chemicals exposures that are higher among women firefighters and nurses, compared to office workers, and investigate their associations with biomarkers of breast cancer and early effects on metabolism.



BOLD IDEA

Mapping the Human Exposome to Uncover the Causes of Breast Cancer

Exposome-wide association studies that measure a rich set of molecular information in biospecimens can discover unknown causes of breast cancer.

Presenter #7 — Researcher Category



Barbara Adler Cohn, Ph.D.

Research Director
Child Health and Development Studies
Public Health Institute

As Director of the Child Health and Development Studies (Public Health Institute) since 2001, Barbara Cohn enriched this 60-year, 3-generation California study for research on environmental causes of breast cancer, developed strong research collaborations and an active Participant Advisory Council. She has published ground-breaking research on early-life environmental chemical exposures and breast cancer and investigates adverse childhood experiences, pregnancy, germline and embryo exposures while partnering with experimental scientists to discover breast cancer causes suggested by her human research. Her goal is prevention of breast cancer by eliminating environmental causes. Dr. Cohn received Zero Breast Cancer's Community Breast Cancer Research Award.



BOLD IDEA

Environmental Breast Density: The Clue to Preventing Breast Cancer

CBCRP can put to use valuable but overlooked California resources to find and reduce environmental determinants of breast density to prevent breast cancer.

Presenter #8 — Advocate Category



Laura Markuly

Owner/Exercise Physiologist
Bodyology Sports Performance, LLC

Laura Markuly hails from Cheney, KS and is a four-year breast cancer survivor. She earned her BSE in Exercise Science/Gerontology and ran track at Wichita State University. She earned her MSE in Exercise Physiology from the University of Kansas. Her certifications include American College of Sports Medicine (ACSM) Exercise Physiologist Certified (EP-C) and Exercise is Medicine Level II Practitioner, National Academy of Sports Medicine (NASM) Corrective Exercise Specialist (CES) and Performance Enhancement Specialist (PES). She has worked for the Air Force since 2003 and is currently at McConnell AFB. Laura is also the owner of Bodyology Sports Performance, LLC.



BOLD IDEA

Low Dose Naltrexone (LDN): The New Breast Cancer Prevention

Using Low Dose Naltrexone (LDN) as a low cost, broad range, new method to prevent breast cancer and cell mutations.

Presenter #9 — Researcher Category



Andrea R. Hindman, Ph.D.

Postdoctoral Researcher
Silent Spring Institute

Dr. Andrea R. Hindman is a postdoctoral fellow at Silent Spring Institute and Northeastern University. Her research focuses on evaluating scientific bias and the strength of evidence linking environmental chemical exposures with altered mammary gland development. She earned her Ph.D. in molecular biology from Ohio State University, where she investigated the influence of hormone-mimicking chemicals on breast cancer risk. Motivated by a personal connection to cancer as a caregiver, Hindman hopes her work will lead to stronger policies that prioritize chemical safety screening and prevention. Andrea holds bachelor degrees in biology and chemistry from University at Buffalo, NY.

ADDITIONAL TEAM MEMBER:

Jessica S. Helm, Ph.D.

Postdoctoral Researcher
Silent Spring Institute



BOLD IDEA

Keeping Abreast of Prevention in Chemical Safety Testing

Make knowledge linking breast cancer risk and chemical exposures accessible and measurable, using the rodent mammary gland, to prioritize prevention in safety testing.

Presenter #10 — Researcher Category



Hannah Lui Park, Ph.D.

Assistant Professor
University of California Irvine

Dr. Hannah Lui Park is an Assistant Professor in the Department of Epidemiology at UC Irvine. Dr. Park earned her B.A. in Molecular and Cell Biology from UC Berkeley, M.S. in Cell and Neurobiology from USC, and Ph.D. in Biological Sciences from Stanford University. She combines her education and experience in molecular biology, epigenetics, cancer risk assessment, and epidemiology to study the molecular epidemiology of cancer focusing on epigenetic markers for breast cancer risk. Dr. Park serves as the Principal Investigator of the CBCRP-funded Markers for Environmental Exposures Study and as a Co-Investigator on the PCORI-funded Wisdom Study and NIH-funded All of Us Research Program.



BOLD IDEA

In Utero and Pre-Conception Determinants of Breast Cancer Risk

Multi-generational epigenetics studies are needed to understand how we can prevent breast cancer not only in ourselves but also in future generations by modifying our lifestyle factors and environmental exposures.

Selection Committee



Sarah Gehlert, M.A., MSW, Ph.D.

Dean and Distinguished Professor
University of South Carolina
College of Social Work

Sarah Gehlert, Ph.D. is Dean of the College of Social Work at the University of South Carolina, University of South Carolina Educational Foundation Distinguished Professor, and E. Desmond Lee Professor of Racial and Ethnic Diversity Emerita at Washington University in St. Louis. Prior to moving to South Carolina, Dr. Gehlert was the Co-Program Leader of the Prevention and Control Program of the Siteman Cancer Center, Co-Director of the Transdisciplinary Center on Energetics and Cancer, and Training Program Director of the Program for the Elimination of Cancer Disparities at Washington University. She serves on the CBCRP Steering Committee and the American Cancer Society's Council on Extramural Grants.



Jeanne Mandelblatt, M.D., MPH

Professor of Medicine and Oncology,
Associate Director for Population Sciences
Lombardi Comprehensive Cancer Center
Georgetown University

Dr. Mandelblatt is a tenured Professor of Medicine and Oncology at Georgetown University. With her clinical translational training in geriatrics, health services research, and cancer epidemiology, Dr. Mandelblatt is a nationally recognized population scientist with more than three decades of continuously, multi-RO1 funded NIH collaborative research focused on cancer, policy, and aging. Dr. Mandelblatt's research focuses on screening and survivorship at the intersection of aging. Dr. Mandelblatt has been a leader and Principal Investigator in the NCI Cancer Intervention and Surveillance Modeling Network (CISNET) for the past 18 years, with numerous high impact screening publications. In recognition of her sustained leadership and collaborative scientific accomplishments, Dr. Mandelblatt was awarded a seven-year NCI Outstanding Investigator Grant in 2015 (R35) to study cancer care in older individuals.

Selection Committee



Shyrea Thompson

**Founder and Principal
The IRIS Collaborative, LLC**

Shyrea Thompson brings more than 15 years of advocacy, health care, education, workforce and outreach experience, in a variety of front-line roles. In August 2018, she founded The IRIS Collaborative, LLC - a social entrepreneurship consultancy with the mission to innovate real and impactful solutions through cross-sector collaboration. She was previously at Susan G. Komen as the Senior Advisor to the CEO for Special Initiatives to lead the organization in its goal to achieve breast health equity. Her leadership and contributions to advance cancer patient navigation were recognized by Vice President and Dr. Biden in 2014. Thompson earned her B.S. from The George Washington University in 2004 and returned to complete her graduate studies in Nonprofit Management in 2009.



Lori Wilson, M.D., FACS

**Associate Professor and Chief of Oncology
Howard University College of Medicine**

Dr. Wilson serves as Division Chief of Surgical Oncology at Howard University Hospital. Her expertise includes the treatment of breast, endocrine tumors, soft tissue, gastrointestinal and cutaneous neoplasms. Her work has been published in many peer-reviewed journals and focuses on discovering novel biomarkers and elucidating the causes for disparities in clinical outcomes. Dr. Wilson has often been called upon to share her cancer experience as a survivor and health care provider. In 2015, Dr. Wilson was featured in the documentary, Ken Burns Presents Cancer: The Emperor of Maladies on PBS. Dr. Wilson earned her Bachelor of Science in Biology and Doctor of Medicine degrees from Georgetown University. In addition to her residency at Howard University Hospital, she also was a noted surgical oncology fellow at the John Wayne Cancer Institute.

Selection Committee



Marion H.E. Kavanaugh-Lynch, M.D., MPH

Director

California Breast Cancer Research Program

University of California Office of the President

Mhel Kavanaugh-Lynch has served as Director of the California Breast Cancer Research Program since 1995. In that role, she guides California's research investment designed to bring an end to breast cancer. She has managed the awarding and monitoring of nearly \$300 million in research funds. Her accomplishments include championing the role of advocates in the research enterprise, developing a successful model for funding community-based participatory research, developing rigorous evaluations of the Program and developing research strategies to explore the role of environmental contaminants in breast cancer, disparities in breast cancer, and prevention of the disease. Mhel received her A.B. from Bryn Mawr College, M.D. from New York University and MPH from University of Washington. She is the recipient of the Gay and Lesbian Medical Association's Lifetime Achievement Award, the Susan Love Foundation's Excellence in Philanthropy Award, Zero Breast Cancer's Community Research Award, a University of California Innovation and Impact Award, and the National Cancer Survivorship Coalitions Catherine Logan Award.

Selection Committee (joining remotely)



Susan Braun

CEO
The V Foundation

Susan Braun is a businesswoman, a strategist, a health educator, and a passionate advocate for people with cancer. She has spent more than 20 years working side-by-side with amazing people to diminish suffering caused by cancer and other conditions – at the individual and the global level. Ms. Braun is currently the CEO of The V Foundation for Cancer Research. In the past she has served as the Executive Director of Commonweal; the Executive Director of The ASCO (American Society of Clinical Oncology) Cancer Foundation; CEO of the CURE Media Group, publisher of CURE Magazine; the President and CEO of the Susan G. Komen Breast Cancer Foundation; in various positions within the Oncology/Immunology Division at Bristol-Myers Squibb; and as an executive with the health care consulting firm Pracon Incorporated and the Center for Economic Studies in Medicine.



Ross Brownson, Ph.D.

Bernard Becker Professor
Washington University in St. Louis
Brown School and School of Medicine

Ross Brownson, Ph.D., is the Lipstein Distinguished Professor at Washington University in St. Louis. He studies the translation of evidence to public health practice and policy, with a content focus on environmental and policy determinants of cancer and other chronic diseases. Dr. Brownson is the author of 15 books and over 550 articles. Dr. Brownson has received numerous awards for his work. Among these, he is the recipient of the Abraham Lilienfeld Award for outstanding contributions in teaching and mentoring (from the American Public Health Association) and the Charles C. Shepard Science Award (the highest award for science, from the Centers for Disease Control and Prevention).

Council

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ToPreventBreastCancer.org

CBCRP hopes that the research ideas you hear today will inspire you to support breast cancer primary prevention research and pursue innovative lines of research like these. Use these ideas as a catalyst to ignite your imagination!

For more information about CBCRP:

www.CABreastCancer.org

To sign up for CBCRP's newsletter, send an email to

getinfo@cabreastcancer.org

For questions about the Global Challenge, contact us at

Challenge@CABreastCancer.org



“Prevention is the next frontier in breast cancer research. The Global Challenge was designed to meet this opportunity head-on — and catalyze a new direction in research, focused squarely on prevention.”

— Marion H.E. Kavanaugh-Lynch, M.D., MPH
CBCRP Director

