



CALIFORNIA

Breast  
Cancer

Research

PROGRAM

## **Compendium of Awards**

**Cycle 24  
2018**

## Introduction

*The mission of the CBCRP is to prevent and eliminate breast cancer by leading innovation in research, communication, and collaboration in the California scientific and lay communities.*

The California Breast Cancer Research Program (CBCRP) is pleased to announce the **funding of 14 new research projects** that will advance our knowledge about the community impact, prevention, etiology, detection, and treatment of breast cancer. With these new awards we are **investing \$4,459,784 for research projects being performed at 17 institutions and community organizations across the state.**

CBCRP supports breast cancer research in California from funds obtained through:

- A portion of a **2¢ per pack State cigarette tax**
- Contributions from individuals using the **State's income tax check-off** option
- **Donations** from concerned community members dedicated to defeating breast cancer

CBCRP is administered by the University of California, Office of the President, in Oakland. Our overall objectives, strategies, and priorities are developed with the assistance of a volunteer California Breast Cancer Research Council (BCRC), which sets program priorities and recommends the grants to be funded. The BCRC consists of 16 members: five are representatives of breast cancer survivor/advocacy groups; five are scientists/clinicians; two are members from nonprofit health organizations, one is a practicing breast cancer medical specialist, two are members from private industry, and one is an *ex officio* member from the California Department of Health Services breast cancer early detection program, "Every Woman Counts."

CBCRP research funding is organized through several sub-program units including:

- **Community initiatives** supports research grants that incorporate both academic researchers and community group investigators to study a problem specific to a community, but with wider dissemination potential.
- **Core funding** focuses on investigator-initiated traditional grants to support smaller, innovative projects, larger translational grants, and conferences.
- **Program Directed Initiatives** support California Breast Cancer Prevention Initiative projects to identify and eliminate environmental causes of breast cancer; identify and eliminate disparities/inequities in the burden of breast cancer in California; develop population-level interventions (including policy research) on known or suspected breast cancer risk factors and protective measures; and develop target interventions for high-risk individuals, including new methods for identifying or assessing risk. In 2018, CBCRP funded projects in response to the Community-Driven Pilot Studies to Explore Racial/Ethnic Disparities in Consumer Product Availability and Use Initiative.

The full abstracts of these newly funded grants, as well as those from previous CBCRP funding cycles, can be found on our website: [www.CABreastCancer.org](http://www.CABreastCancer.org).

## Overview of CBCRP Award Types

CBCRP funded new research projects using a variety of award types in 2018:

- **Community Research Collaboration (CRC)** awards bring community organizations—such as breast cancer advocates, community clinics, or organizations serving under-represented women—together with experienced academic scientists to investigate breast cancer problems that are important to that community, using culturally-appropriate research methods. CRC Pilot (18-month) and CRC Full Research awards (three years) are available.
- **Innovative Developmental and Exploratory Awards (IDEAs)** are 12- to 18-month grants for targeted high-risk/high-reward projects. CBCRP incorporates the “critical path” concept, which requires applicants to place their project on a research continuum leading to practical applications. IDEAs are offered to both new and established investigators.
- **Translational Research** awards support projects that overcome barriers and put prior research knowledge to practical use in the patient or community setting.
- **Conference Awards** support a conference, symposium, retreat, or other meeting to link breast cancer researchers, non-breast cancer investigators, and community members for the purpose of stimulating new ideas and collaborations.
- **Program Directed Initiatives** support **Requests for Proposals (RFPs)** that competitively fund investigator-initiated research responding to the California Breast Cancer Prevention initiative topic, **Request for Qualifications (RFQs)** that fund grants based on the qualifications of the investigator to undertake CBCRP-defined research projects in close collaboration with CBCRP and **Program Directed Awards (PDAs)** to fund crucial projects identified during the strategy development proposed by the Steering Committee and approved by the CBCRP Council.

## LOI and Application Submissions and Review

IDEA and Translational Research Awards applications must pass through a letter of intent (LOI) screening process conducted by our Council to select projects that best meet our award type and programmatic criteria. We view this as a benefit to both the applicants and Program in terms of reducing the effort to prepare full applications and CBCRP's corresponding peer review costs.

**Table 1. LOI submission and approval results**

Award Type	LOIs submitted	LOIs approved	Percent approved
IDEA	28	19	68%
Translational Research Award	11	4	36%

After the LOI process, the full application data is shown in the table below.

**Table 2. 2018 full application submissions by award type and priority issue**

Award Type ↓	CBCRP Priority Issue				Award Type Totals
	Etiology & Prevention	Community Impact	Detection, Prognosis & Treatment	Biology of the Breast Cell	
Innovative, Developmental & Exploratory (IDEA)	5	0	9	3	<b>17</b>
Translational Research Award	2	0	1	0	<b>3</b>
Community Research Collaboration (CRC) Pilot	3	7	0	0	<b>10</b>
Community Research Collaboration Full	4	0	1	0	<b>5</b>
Program-Directed Initiatives	0	2	0	0	<b>2</b>
CBCRP Conference	0	1	0	0	<b>1</b>
Priority Totals	14	10	11	3	<b>38</b>

## Funding Highlights

**Table 3. 2018 grant distribution by award type**

Award Type	Number of Applications	Grants Funded (Success Rate)	Amount Awarded	Percentage of Total Funding
IDEA	17	6 (35%)	\$1,281,661	28.7%
Translational	3	0 (0%)	\$0	0%
Community Research Collaboration (CRC) – Pilot	10	3 (30%)	\$574,051	12.9%
Community Research Collaboration (CRC) - Full	5	2 (40%)	\$1,712,896	38.4%
CBCRP Conference	1	1 (100%)	\$25,000	0.6%
Program-Directed Initiatives	2	2 (100%)	\$866,176	19.4%
<b>Total</b>	<b>38</b>	<b>14 (37%)</b>	<b>\$4,459,784</b>	<b>100%</b>

**Table 4. 2018 grant distribution by priority issue**

Award Type	Number of Applications	Grants Funded (Success Rate)	Amount Awarded	Percentage of Total Funding
Etiology & Prevention	14	3 (21%)	\$1,932,896	43.3%
Community Impact	10	5 (50%)	\$1,245,227	27.9%
Detection, Prognosis & Treatment	11	5 (45%)	\$993,661	22.3%
Biology of the Breast Cell	3	1 (33%)	\$288,000	6.5%
<b>Total</b>	<b>38</b>	<b>14 (37%)</b>	<b>\$4,459,784</b>	<b>100%</b>

## Grants Funded in Cycle 24 2017-2018

### Community Initiatives Grants

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#### **Assessing breast health in urban oil drilling communities**

Award type: Community Research Collaboration Award - Pilot

Priority Area: Etiology and Prevention

Nancy Ibrahim  
Esperanza Community Housing Corporation  
\$55,000

Jill Johnston and Eunjung Lee  
University of Southern California  
\$165,000

Total Award: \$220,000



#### **Physical activity intervention for young cancer survivors**

Award type: Community Research Collaboration Award - Pilot

Priority Issue: Community Impact of Breast Cancer

Shari Hartman  
UCSD  
\$178,111

Stori Nagel  
Haus of Volta  
\$69,598

Total Award: \$178,111



#### **Project SOAR: Speaking Our African American Realities**

Award type: Community Research Collaboration Award - Pilot

Priority Issue: Community Impact of Breast Cancer

Tammie Denyse  
Carrie's TOUCH African American Breast Cancer  
\$82,336

Annette Stanton  
UCLA  
\$93,604

Total Award: \$175,940

#### **In vivo impact of xenoestrogen exposure on the human breast - Full Study**

Award type: Community Research Collaboration Award - Full

Priority Issue: Etiology and Prevention

Shanaz Dairkee  
Sutter Bay Hospital – California Pacific Medical Center  
\$788,664

Polly Marshall  
Breast Cancer Over Time  
\$183,334

Total Award: \$961,998



### **Reducing Latina Women's Exposure to Cleaning Chemicals**

Award type: Community Research Collaboration Award - Full  
Priority Issue: Etiology and Prevention

Kim Harley  
UC Berkeley  
\$645,497

Norma Morga  
Clinica de Salud del Valle de Salinas  
\$95,401

Total Award: \$740,898

## **Core Funding Grants**

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### **Adipose-Rich Microenvironment in Breast Cancer**

Award type: IDEA Award  
Priority Issue: Biology of the Breast

Fahumiya Samad  
San Diego Biomedical Research Institute  
\$288,000

### **Dietary Asparagine Limitation to Augment Immune Therapy**

Award type: IDEA Award  
Priority Issue: Detection, Prognosis and Treatment

Simon Knott  
Cedars-Sinai Medical Center  
\$255,867

### **Improving Health of Women on Aromatase Inhibitors**

Award type: Translational Research Award  
Priority Issue: Detection, Prognosis and Treatment

Catherine Carpenter  
UCLA  
\$175,500



### **Metformins in Triple-Negative Breast Cancer Immunotherapy**

Award type: IDEA Award  
Priority Issue: Detection, Prognosis and Treatment

Richard Pietras  
UCLA  
\$187,358

### **Targeting IGF2 and Androgen Receptors for TNBC Therapy**

Award type: IDEA Award  
Priority Issue: Detection, Prognosis and Treatment

Nola Hamilton  
UCLA  
\$187,436

**Targeting Tumor-Initiating Niche to Overcome Chemoresistance**

Award type: IDEA Award

Priority Issue: Detection, Prognosis and Treatment

Jing Yang  
UC San Diego  
\$291,000

**6th Biennial National Latino Cancer Summit, “From Science to Populations to People: The Latino Cancer Conundrum”**

Award type: CBCRP Conference Award

Priority Issue: Community Impact of Breast Cancer

Ysabel Duron  
Latinas Contra Cancer  
\$25,000



Denotes awards that have been supported in part through voluntary contributions from California taxpayers



Denotes Faith Fancher Research Award recipient. [Faith Fancher](#) was a long-time television news anchor and personality with KTVU (Oakland) who waged a very public battle against breast cancer. She also was the founding member of the CBCRP Executive Team, which formed in 2001 to help raise the visibility and fundraising profile of our program. Faith passed away in October 2003 after a six-year struggle with breast cancer. In Faith's honor, and to commemorate all that she did for breast cancer education and research, we have created this annual award. The selected grant reflects the values that Faith held most closely and extends the work that Faith did for all women facing breast cancer.

**Program-Directed Research**

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**Chemical Exposure through Consumer Product Use**

Award type: CBCPI Request for Proposals

Priority Issue: Etiology and Prevention

Kim Harley,  
UC Berkeley  
\$295,734

Phyllis Clark  
Healthy Heritage Movement  
\$60,500

Julia Liou  
Asian Health Services  
\$63,966

Total Award: \$420,200

**Taking Stock: Product Use Among Black and Latina Women**

Award type: CBCPI Request for Proposals

Priority Issue: Etiology and Prevention

Bhavna Shamasunder  
Occidental College  
\$379,470

Janette Robinson Flint  
Black Women for Wellness Los Angeles  
\$66,506

Total Award: \$445,976



## 2018 CBCRP Funding by Institution

The following 17 California research institutions and community organizations were awarded new CBCRP funding in the 2017-2018 grant cycle. Community Research Collaboration (CRC) grants may be split between institutions.

<b>Institution</b>	<b># of Grants</b>	<b>Amount</b>
Asian Health Services	1	\$63,966
Black Women for Wellness Los Angeles	1	\$66,506
Breast Cancer Over Time	1	\$183,334
Carrie's TOUCH African American Breast Cancer	1	\$82,336
Cedars-Sinai Medical Center	1	\$255,867
Clinica de Salud del Valle de Salinas	1	\$95,401
Esperanza Community Housing Corporation	1	\$55,000
Haus of Volta	1	\$69,598
Healthy Heritage Movement	1	\$60,500
Latinas Contra Cancer	1	\$25,000
Occidental College	1	\$379,470
San Diego Biomedical Research Institute	1	\$288,000
Sutter Bay Hospital dba California Pacific Medical Center	1	\$788,664
UC Berkeley	2	\$941,231
UCLA	4	\$643,898
UC San Diego	2	\$296,013
University of Southern California	1	\$165,000

## 2018 CBCRP application evaluation process & review committee rosters

**CBCRP thanks the participants in our 2018 review committees for their service and dedication to our Program!**

In the first phase of the funding process, grant applications were peer reviewed and scored for scientific merit by review committees using a model that follows established practice at the National Institutes of Health (NIH). Each committee is composed of scientists and advocates from outside California. The Committee Chair leads the review process and is a senior researcher. Scientific Reviewers have broad expertise in topics associated with individual applications. Breast cancer Advocate Reviewers are women active in breast cancer advocacy organizations, and many of them are also living with the disease. Advocates bring their personal knowledge and commitment to the review process. Each committee also includes a California Advocate Observer, who does not review or vote, but represents California's advocacy community. The observer gains insight into our process and provides feedback to the Program. When additional expertise is needed, an Ad Hoc Member is brought in to the review a particular application not covered by the other committee scientist reviewers.

CBCRP uses a scientific **merit scoring system** that rates individual components (e.g., approach, innovativeness, impact). This allows our expert reviewers and Council to better differentiate applications that might otherwise appear identical. Depending on the award type, we use four or five scientific merit components in the peer review process.

We **triage** some applications that score in the lower range of a committee's portfolio using the preliminary scores of the assigned reviewers. Applications in the upper range of a committee's portfolio all receive full committee discussion, as do any of the lower scoring applications nominated to full review by one reviewer.

Applications that were not triaged were rated by CBCRP's Council for **programmatic responsiveness**. Combinations of the following criteria were used:

- Responsiveness to CBCRP's priority issues and award type (or initiative)
- Strength of individual scientific merit component scores (e.g., innovation for IDEA applications)
- Underfunded topic
- Quality of the lay abstract
- Inclusion of advocates in the funded research
- Addressing the needs of the underserved
- Critical path/translation (IDEA and Translational Research Award), or dissemination and translational potential (CRC)

This two-tiered evaluation and funding process ensures both scientific excellence and relevance of the research to CBCRP's mission and goals.

## Community Impact Review Committee

### **Chairs:**

#### **Shiraz Mishra, PhD**

Professor  
University of New Mexico School of Medicine  
Dept of Pediatrics & Family and Community Med  
Albuquerque, NM

#### **Susan Pelletier**

Vermont Breast Cancer Coalition  
Stockbridge, VT

### **Scientific Reviewers:**

#### **Janell Mensinger, PhD**

Associate Research Professor  
Director, Biostatistics Service Center  
Drexel University  
Philadelphia, PA

#### **Emma Tsui, PhD**

Assistant Professor  
CUNY Graduate School of Public Health and Health  
Policy (CUNY SPH)

#### **Grace Sembajwe, PhD**

Associate Professor  
CUNY Graduate School of Public Health and Health  
Policy (CUNY SPH)  
New York, NY

#### **Kathryn Kash Murphy, PhD**

Principal  
KM Behavioral Consulting  
Spring Hill, FL

#### **Chiranjeev Dash, MD, PhD**

Assistant Professor of Medicine  
Georgetown University  
Washington, DC

### **Advocate Reviewers:**

#### **Beverly Canin**

Breast Cancer Option, Inc

#### **Sandra Deming Halverson, PhD**

Adjunct Research Assistant Professor of Medicine  
Vanderbilt University  
Nashville, TN

#### **Valerie Fraser**

Inflammatory Breast Cancer International  
Consortium  
Huntington Woods, MI

#### **Deborah Bowen, PhD**

Professor  
University of Washington  
Seattle, WA

#### **Jo Ann Tsark**

Director, Community Engaged Research  
John A. Burns School of Medicine, University of  
Hawaii

### **California Advocate Observer:**

#### **Denise Jenkins**

Women's Cancer Resource Center  
Oakland, CA

## Clinical, Prevention & Biological Sciences Review Committee

### **Chair:**

#### **Patricia A. Thompson Carino, Ph.D.**

Professor, Department of Pathology  
Associate Director for Basic Research Cancer  
Center  
Stony Brook School of Medicine

### **Scientific Reviewers:**

#### **Jia Chen, ScD**

Professor  
Icahn School of Medicine at Mount Sinai  
New York, NY

#### **Chi-Chen Hong, PhD**

Professor  
Roswell Park Comprehensive Cancer Center  
Buffalo, NY

#### **Erik Nelson, PhD**

Assistant Professor  
University of Illinois  
Urbana, IL

#### **Ruth Keri, Ph.D.**

Professor  
Vice Chair, Department of Pharmacology  
Case Western Reserve University  
Cleveland, OH

#### **Amos Sakwe, Ph.D.**

Assistant Professor  
Department of Biochemistry and Cancer Biology  
School of Graduate Studies and Research  
Meharry Medical College  
Nashville, TN

#### **Sallie Smith Schneider, PhD**

Director, Biospecimen Resource and Molecular  
Analysis Facility  
Baystate Medical Center  
Springfield, MA

#### **Rulla Tamimi, ScD**

Associate Professor of Medicine and  
Epidemiology  
Dana Farber/Harvard  
Boston, MA

### **Advocate Reviewers:**

#### **Ann Fonfa**

Annie Appleseed Project  
Delray Beach, FL

#### **Sherry Meeks, MS, MPH**

University of Central Oklahoma  
Edmond, OK

#### **Beverly Parker, MSW, PhD**

Living Beyond Breast Cancer  
Naperville, IL

### **Ad-Hoc Reviewer:**

#### **Rita Nanda, MD**

Assistant Professor Medicine  
Associate Director, Breast Medical Oncology  
University of Chicago Medicine  
Chicago, IL

#### **David Mankoff, MD, PhD**

Gerd Muehllehner Professor of Radiology  
Vice-Chair for Research, Department of Radiology  
University of Pennsylvania  
Hospital of the University of Pennsylvania  
Philadelphia, PA

### **California Advocate Observer:**

#### **Lori Petitti, MBA**

Breast Cancer Care and Research Fund  
Santa Monica, CA

## **Community-Driven Pilot Studies to Explore Racial/Ethnic Disparities in Consumer Product Availability and Use Request for Proposals**

### **Chair:**

**Grace Sembajwe, DSc, MSc**

Associate Professor

Environmental, Occupational, and Geospatial Health Sciences

CUNY Institute for Implementation Science in Population Health

CUNY Graduate School of Public Health and Health Policy

New York, NY

### **Scientific Reviewers:**

**Sacoby Wilson, PhD, MS**

Associate Professor

Director, Community Engagement, Environmental Justice, and Health (CEEJH)

Maryland Institute for Applied Environmental Health

School of Public Health

University of Maryland-College Park

College Park, MD

**Sherrie Flynt Wallington, PhD**

Assistant Professor

Georgetown University Medical Center

Department of Oncology

Program Director, Health Disparities Initiative

Georgetown Lombardi Comprehensive Cancer Center

Washington, DC

### **Advocate Reviewer:**

**Susan Pelletier**

Patient Advocate

Vermont Breast Cancer Coalition

Stockbridge, VT

## California Breast Cancer Research Council Programmatic Review Committee

### **Advocates**

#### **Ghecemy Lopez**

Celebrate Life Cancer Ministry

#### **JoAnn Loulan**

Breast Cancer Action

#### **Dolores Moorehead**

Women's Cancer Resource Center

#### **Joan Venticinque**

Cancer Patient Advocacy Alliance

#### **Patricia Wu, Ed.D.**

Dr. Susan Love Research Foundation

### **Nonprofit Health Organization**

#### **Representatives**

##### **Dave Hoon, Ph.D.**

John Wayne Cancer Institute at Providence Saint  
John's Health Center

##### **Thu Quach, Ph.D.**

Asian Health Services

### **Medical Specialist**

#### **Francine Halberg M.D.**

Marin General Hospital

### **Industry Representatives**

#### **Lisa Eli, Ph.D.**

Puma Biotechnology, Inc.

#### **Stina Singel M.D. Ph.D.**

Genentech

### **Scientist/Clinicians**

#### **Ana Navarro, Ph.D.**

University of California, San Diego

#### **Robert Oshima, Ph.D.**

Sanford Burnham Prebys Medical Discovery

#### **Jeffrey Wasserman, Ph.D.**

RAND Corporation

#### **Veronica Vieira, D.Sc.**

University of California, Irvine

## **California Breast Cancer Research Program Staff**

**Marion Kavanaugh-Lynch, M.D., M.P.H.**

*Director*

**Lisa Minniefield**

*Program Specialist*

### **SPECIALRESEARCH INITIATIVES**

**Nicholas Anthis, D.Phil.**

### **COMMUNITY INITIATIVES**

**Senaida Fernandez, Ph.D.**

### **CORE FUNDING**

**Katherine McKenzie, Ph.D.**

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