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 19 new research projects that will advance our knowledge about the community impact, biology, detection, and treatment of breast cancer. With these new awards we are investing $5,198,785 for research projects being performed at 19 institutions and community organizations across the state.

The 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

The 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 a number of sub-program units including:

- **Community initiatives** supports research grants that incorporate both traditional researcher and community group co-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 Research Initiatives (PRI)** grants target topics related to environmental causes of breast cancer, disparities in disease incidence and survival in various populations, and novel strategies for prevention based on environmental causes and related to disparities.

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 2013:

- **Community Research Collaboration (CRC)** awards bring community organizations—such as breast cancer advocates, community clinics, or organizations serving under-represented women—together with experienced 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. The 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 Research Initiatives** fund specific projects identified by the Program Directed Research Steering Committee that will address gaps in our understanding of the role of the environment in breast cancer, the reasons behind breast cancer disparities and breast cancer prevention. Requests for Proposals (RFP) competitively fund investigator-initiated research responding to a specific initiative topic.

LOI and application submissions & 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 the CBCRP’s corresponding peer review costs.

Table 1. LOI submission and approval results

<table>
<thead>
<tr>
<th>Award Type</th>
<th>LOIs submitted</th>
<th>LOIs approved</th>
<th>Percent approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDEA</td>
<td>120</td>
<td>60</td>
<td>50%</td>
</tr>
<tr>
<td>Translational Research Award</td>
<td>27</td>
<td>7</td>
<td>26%</td>
</tr>
</tbody>
</table>
After the LOI process the full application data is shown in the table below.

### Table 2. 2013 full application submissions by award type and priority issue

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Number of Applications</th>
<th>Grants Funded (Success Rate)</th>
<th>Amount Awarded</th>
<th>Percentage of Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDEA</td>
<td>52</td>
<td>9 (17%)</td>
<td>$2,036,544</td>
<td>39%</td>
</tr>
<tr>
<td>Translational</td>
<td>5</td>
<td>1 (20%)</td>
<td>$502,034</td>
<td>10%</td>
</tr>
<tr>
<td>Community Research Collaboration (CRC) Pilot and Full</td>
<td>19</td>
<td>6 (32%)</td>
<td>$1,777,287</td>
<td>34%</td>
</tr>
<tr>
<td>Joining Forces Conference</td>
<td>3</td>
<td>2 (67%)</td>
<td>$49,975</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td>80</td>
<td>19 (24%)</td>
<td>$5,198,785</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Funding highlights

### Table 3. 2013 grant distribution by award type

<table>
<thead>
<tr>
<th>Award Type</th>
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<tr>
<td>Community Research Collaboration (CRC)</td>
<td>19</td>
<td>6 (32%)</td>
<td>$1,777,287</td>
<td>34%</td>
</tr>
<tr>
<td>Conference</td>
<td>3</td>
<td>2 (67%)</td>
<td>$49,975</td>
<td>1%</td>
</tr>
<tr>
<td>Program Directed Research Initiative</td>
<td>1 (from CRC)</td>
<td>1 (100%)</td>
<td>$833,945</td>
<td>16%</td>
</tr>
<tr>
<td>Total</td>
<td>80</td>
<td>19 (24%)</td>
<td>$5,198,785</td>
<td>100%</td>
</tr>
</tbody>
</table>
Table 4. 2013 grant distribution by priority issue

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Number of Applications</th>
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<th>Amount Awarded</th>
<th>Percentage of Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Etiology &amp; Prevention</td>
<td>15</td>
<td>5 (26%)</td>
<td>$1,452,570</td>
<td>28%</td>
</tr>
<tr>
<td>Community Impact</td>
<td>19</td>
<td>6 (40%)</td>
<td>$1,836,166</td>
<td>35%</td>
</tr>
<tr>
<td>Detection, Prognosis &amp; Treatment</td>
<td>37</td>
<td>8 (23%)</td>
<td>$1,910,049</td>
<td>37%</td>
</tr>
<tr>
<td>Biology of the Breast Cell</td>
<td>9</td>
<td>0 (0%)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>80</strong></td>
<td><strong>19 (24%)</strong></td>
<td>$5,198,785</td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Three awards are of special interest, and are supported by contributions to the California Breast Cancer Research Fund on the state income tax form. They are a Community Research Collaboration Award to Anna Napoles, University of California, San Francisco and Carmen Ortiz, Circulo de Vida Cancer Support and Resource Center for “Meeting the Self-Care Needs of Latinas after Breast Cancer”; and IDEA grants to Axel Schonthal, University of Southern California to investigate “Intranasal Drug Delivery for Brain Metastatic Breast Cancer” and Brian Feldman, from Stanford University for “Vitamin D Signals Via a Novel Pathway to Inhibit Metastasis.”

Faith Fancher Research Award

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.

The recipients of the 2013 Faith Fancher Research Award are Susanne Montgomery (Loma Linda University) and Eudora Mitchell (Quinn Community Outreach Corporation) for their community research collaboration pilot project, “Is Cost of Beauty Putting Black Women at Risk? IEAAWC Study”. In this project, members of the Inland Empire African American Wellness Collaborative are teaming up with researchers at Loma Linda University to determine lifetime patterns of African American women’s exposure to beauty products such as hair relaxer that contain hormones or placenta and to identify the culturally effective and feasible outreach strategies to engage Inland Empire African American/Black women and their beauticians in a dialogue about the issues of hair products possibly being dangerous to their health.
Grants Funded in Cycle 19 2012-2013

Community Initiatives Grants

**Cadmium and Arsenic Exposure in a Mining Impacted Community**
Award type: Community Research Collaboration Award - Pilot  
Priority Issue: Etiology and Prevention

Jane Sellen and Joanne Hild, M.S.  
Sierra Streams Institute  
$149,099

Peggy Reynolds, Ph.D.  
Cancer Prevention Institute of California  
$62,016

Total: $211,115

**Is Cost of Beauty Putting Black Women at Risk? IEAAWC Study**
Award type: Community Research Collaboration Award - Pilot  
Priority Issue: Etiology and Prevention

Susanne Montgomery, Ph.D., M.P.H.  
Loma Linda University  
$156,000

Eudora Mitchell, M.A.  
Quinn Community Outreach Corporation  
$62,500

Total: $218,500

**Latinas' Experiences of Breast Cancer Treatment**
Award type: Community Research Collaboration Award - Pilot  
Priority Issue: Community Impact of Breast Cancer

Meghan Halley, Ph.D., M.P.H. and Carla Gomez, L.C.S.W.  
Palo Alto Medical Foundation Research Institute  
$212,648

**Meeting the Self-Care Needs of Latinas after Breast Cancer**
Award type: Community Research Collaboration Award - Pilot  
Priority Issue: Community Impact of Breast Cancer

Anna Napoles, Ph.D., M.P.H.  
University of California, San Francisco  
$175,706

Carmen Ortiz, Ph.D.  
Circulo de Vida Cancer Support and Resource Center  
$15,725

Total: $191,431
Reporting Personal Levels of Environmental Chemicals: Impact
Award type: Community Research Collaboration Award - Full
Priority Issue: Community Impact of Breast Cancer

Barbara Cohn, Ph.D., M.P.H., M.C.P. and Laurie Havas
Public Health Institute
$756,093

Using CBPR to Promote Environmental Justice in Wilmington, CA
Award type: Community Research Collaboration Award - Pilot
Priority Issue: Etiology and Prevention

Annette Maxwell, Dr.P.H.
UCLA
$93,750

Jesse Marquez
Social and Environmental Entrepreneurs
$93,750

Total: $187,500

Core Funding Grants

6th International Workshop on Breast Cancer Risk Assessment
Award type: Conference
Priority Issue: Detection/Prognosis/Treatment

John Shepherd, Ph.D.
University of California, San Francisco
$25,000

A First-in-Class Allosteric RAF Inhibitor for Breast Cancer
Award type: IDEA Award
Priority Issue: Detection/Prognosis/Treatment

David Cheresh, Ph.D.
University of California, San Diego
$187,500

Breast Cancer and Neurocognitive Outcomes
Award type: IDEA Award
Priority Issue: Community Impact of Breast Cancer

Sunita Patel, M.P.H.
Beckman Research Institute, City of Hope
$267,423

Cardiovascular Toxicity Following Aromatase Inhibitor Use
Award type: Translational
Priority Issue: Detection/Prognosis/Treatment

Reina Haque, Ph.D.
Kaiser Foundation Research Institute
$501,034
Expression Profiling of Circulating Tumor Cells
Award type: IDEA Award
Priority Issue: Detection/Prognosis/Treatment

Julie Lang, M.D.
University of Southern California
$244,756

Getting a Jump on Cancer with a Genomic Risk Classifier
Award type: IDEA Award
Priority Issue: Etiology and Prevention

Robert West, M.D., Ph.D.
Stanford University
$260,110

Imaging, Genomics, and Glycoproteomics for Cancer Detection
Award type: IDEA Award
Priority Issue: Detection/Prognosis/Treatment

Sharon Pitteri, Ph.D.
Stanford University
$235,500

Internal Chemical Exposure Study among Mexican Immigrants
Award type: IDEA Award
Priority Issue: Etiology and Prevention

Laura Fejerman, Ph.D.
University of California, San Francisco
$124,996

Intranasal Drug Delivery for Brain Metastatic Breast Cancer
Award type: IDEA Award
Priority Issue: Detection/Prognosis/Treatment

Axel Schonthal, Ph.D.
University of Southern California
$242,530

Radiation-Induced Migration of Breast Cancer Cells
Award type: IDEA Award
Priority Issue: Detection/Prognosis/Treatment

Edward Graves, Ph.D.
Stanford University
$237,295

Sustainable Education to Eliminate Disparities (SEED)
Award type: Conference
Priority Issue: Community Impact of Breast Cancer

Kim Rhoads, M.D., M.P.H.
Stanford University
$24,975
Vitamin D Signals Via a Novel Pathway to Inhibit Metastasis
Award type: IDEA Award
Priority Issue: Detection/Prognosis/Treatment

Brian Feldman, M.D., Ph.D.
Stanford University
$236,434

Program Directed Research Initiative Grant

Women Firefighters Biomonitoring Collaborative
Award type: Program Initiative Request for Proposals
Priority Issue: Etiology and Prevention

Rachel Morello-Frosch, Ph.D., M.P.H. and Tony Stefani
University of California, Berkeley and San Francisco Firefighter Cancer Prevention Foundation
$796,445

Heather Buren
United Fire Service Women
$37,500
Total: $833,945
The following 19 California research institutions and community organizations were awarded new CBCRP funding in the 2012-2013 grant cycle. Community collaborative (CRC) grants may be split between institutions.

<table>
<thead>
<tr>
<th>Institution (city)</th>
<th># Investigators</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beckman Research Institute of the City of Hope (Duarte)</td>
<td>1</td>
<td>$267,423</td>
</tr>
<tr>
<td>Cancer Prevention Institute of California (Fremont)</td>
<td>1</td>
<td>$62,016</td>
</tr>
<tr>
<td>Circulo de Vida Cancer Support and Resource Center</td>
<td>1</td>
<td>$15,725</td>
</tr>
<tr>
<td>Kaiser Permanente</td>
<td>1</td>
<td>$501,034</td>
</tr>
<tr>
<td>Loma Linda University</td>
<td>1</td>
<td>$156,000</td>
</tr>
<tr>
<td>Palo Alto Medical Foundation Research Institute</td>
<td>1</td>
<td>$212,648</td>
</tr>
<tr>
<td>Public Health Institute - Center for Research on Women’s &amp; Children’s Health</td>
<td>1</td>
<td>$756,093</td>
</tr>
<tr>
<td>Quinn Community Outreach Corporation</td>
<td>1</td>
<td>$62,500</td>
</tr>
<tr>
<td>San Francisco Firefighters Cancer Prevention Foundation</td>
<td>1</td>
<td>Sub-contract to UCB</td>
</tr>
<tr>
<td>Sierra Streams</td>
<td>1</td>
<td>$149,099</td>
</tr>
<tr>
<td>Social and Environmental Entrepreneurs</td>
<td>1</td>
<td>$93,750</td>
</tr>
<tr>
<td>Stanford</td>
<td>5</td>
<td>$994,314</td>
</tr>
<tr>
<td>University of California, Berkeley</td>
<td>1</td>
<td>$796,445</td>
</tr>
<tr>
<td>UCLA</td>
<td>1</td>
<td>$93,750</td>
</tr>
<tr>
<td>University of California, San Diego</td>
<td>1</td>
<td>$187,500</td>
</tr>
<tr>
<td>University of California, San Francisco</td>
<td>2</td>
<td>$325,702</td>
</tr>
<tr>
<td>United Fire Service Women</td>
<td>1</td>
<td>$37,500</td>
</tr>
<tr>
<td>University of Southern California</td>
<td>2</td>
<td>$487,286</td>
</tr>
</tbody>
</table>
The CBCRP thanks the participants in our 2013 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.

The 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 the CBCRP’s Council for programmatic responsiveness. The following criteria were used:

- Responsiveness to the 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 the CBCRP’s mission and goals.
Community Impact Review Committee

Chair:
Carolyn Gotay, Ph.D.
School of Population and Public Health
University of British Columbia
Vancouver, BC Canada

Scientific Reviewers:
Sandra L. Halverson, MPH, PhD
Adjunct Assistant Professor of Medicine
Vanderbilt University
Social & Scientific Systems, Inc.
Durham, NC

Kathryn M. Kash, Ph.D.
Behavioral Scientist
KM Behavioral Consulting LLC
Spring Hill, FL

Marion E. Morra, D.Sc.
President
Morra Communications
Milford, CT

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Duke University Medical Center
Durham, NC

Beti Thompson, Ph.D.
Member
Cancer Prevention Research Unit
Fred Hutchinson Cancer Research Center
Seattle, WA

Tom Webster, DSc
Professor
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Boston, MA

Armin D. Weinberg, Ph.D.
Retired Clinical Professor & CEO
Baylor College of Medicine and Life Beyond Cancer Foundation
Houston, TX

Sacoby Wilson, Ph.D., M.S.
Assistant Professor
Maryland Institute for Applied Environmental Health
University of Maryland School of Public Health
College Park, MD

Advocate Reviewers:
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Advocacy Chair
Cedar Valley Cancer Committee: Beyond Pink TEAM
Cedar Falls, IA

Venus Gines, M.A.
CEO/Founder
Dia de la Mujer Latina
Pearland, TX

Patricia O’Brien
S.D. Ireland Cancer Research Fund
Fletcher Allen Hlth Care/ Univ of VT College of Med.
Dept. of Hematology Oncology
Burlington, VT

California Advocate Observer:
Jamie Ledezma, Esq.
Cancer Legal Resource Center
Disability Rights Legal Center & Loyola Law School
Los Angeles, CA
Clinical, Prevention & Biological Sciences Review Committee Roster

Co-Chairs:
Harikrishna Nakshatri, BVSc (DVM), Ph.D.
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IU Simon Cancer Center
Indiana University School of Medicine
Indianapolis, IN

Fredika M. Robertson, Ph.D.
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Department of Experimental Therapeutics
Houston, TX

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San Antonio, TX

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Division of Reproductive Research
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Bryan E. Welm, Ph.D.
Assistant Professor of Oncological Sciences
University of Utah, Huntsman Cancer Institute
Salt Lake City

Martin C. Woodle, Ph.D.
Scientist & CSO
Aparna Biosciences Corp.
Bethesda, MD
Advocate Reviewers:

Brenda F. Bryant  
The Virginia Breast Cancer Foundation  
Arlington, VA

Lisa M. DeFerrari, MBA  
The Virginia Breast Cancer Foundation  
Arlington, VA 22205

Barbara Holtz, MBA  
Dana-Farber Cancer Institute  
Wayland, MA 01778

Eunice Hostetter  
Susan G. Komen Foundation  
Kirkland, WA

Beverly Parker  
Living Beyond Breast Cancer  
Haverford, PA

California Advocate Observer:

Karen Weixel  
Patient Navigator  
UCSF Carol Ann Reade Breast Cancer Center  
Walnut Creek, CA

Ad-Hoc Reviewer:

John H. Ward, M.D.  
Professor and Chief  
Huntsman Cancer Institute at the University of Utah  
Oncology Division, Department of Internal Medicine  
Salt Lake City, UT
California Breast Cancer Research Council Programmatic Review Committee

Advocates
Cacilia Kim, J.D., Ph.D.
Staff Attorney
California Women's Law Center

Marta Nichols
Breast Cancer Connections

Karuna Jaggar
Executive Director
Breast Cancer Action

Sharima Rasanayagam, Ph.D.
Director of Science
Breast Cancer Fund

Ysabel Duron
Founder/Executive Director
Latinas Contra Cancer

Nonprofit Health Organization Representatives
Ted Schettler, M.D., M.P.H
Science Director
Science and Environmental Health Network

Naz Sykes
Executive Director
Dr. Susan Love Research Foundation

Medical Specialist
Jon M. Greif, DO, FACS
Bay Area Breast Surgeons, Inc.

Industry Representatives
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Dako, Inc.

Scientist/Clinicians
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Director, Center for Cancer Disparities Research
California State University, Fullerton

Cynthia A. Gomez, Ph.D.
Director, Health Equity Initiative
San Francisco State University

Melanie Marty, Ph.D.
Assistant Deputy Director
Scientific Affairs Division
Office of Environmental Health Hazard Assessment

Arash Naeim, M.D., Ph.D
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David Geffen School of Medicine, UCLA
California Breast Cancer Research Program Staff

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

Lisa Minniefield
*Program Specialist*

**SPECIAL RESEARCH INITIATIVES**
Catherine Thomsen, M.P.H.

**COMMUNITY INITIATIVES**
Senaida Fernandez, Ph.D.

**CORE FUNDING**
Larry Fitzgerald, Ph.D.

**RESEARCH DISSEMINATION & OUTREACH**
Katherine McKenzie, Ph.D.
Brenda Dixon-Coby