

California Breast Cancer Research Program

BCRP Cycle VI 2000 Awards

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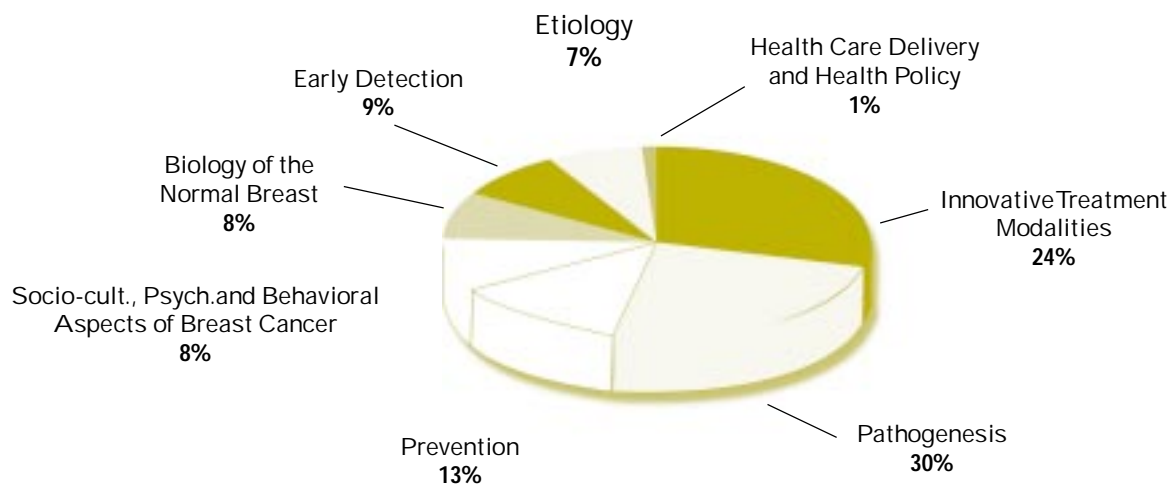
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The California Breast Cancer Research Program is excited to announce the initiation of 70 new research projects that will lead to new knowledge about the causes, prevention, detection and treatment of breast cancer. With these new awards, the state of California is investing more than \$16 million in the lives of California women. The projects are being performed at 22 institutions across the state, including universities, both public (University of California and California State University campuses) and private (e.g., University of Southern California); research institutes (e.g., Scripps Research Institute), medical centers (e.g., Harbor-UCLA Medical Center) and community agencies (e.g., Central Coast Women's Cancer Consortium). Highlights of the 70 new projects that were awarded include:

Subjects of the Cycle VI Awards



- ◆ 6 projects will **expand our knowledge of the biology of the normal breast**, including searching for, and understanding the role of, genes and proteins involved in the development of the normal breast, and exploring why pregnancy at a young age protects against breast cancer.
- ◆ 8 projects will investigate **factors that increase the risk of breast cancer**, including exploration of the effects of pesticides on the breast, study of the role of naturally occurring genetic variation on breast cancer risk, and examination of the differences in breast cancer rates in different regions of California.
- ◆ 5 projects are exploring ways to **reduce the risk of breast cancer**, including exploring the risk associated with differences in how the body handles environmental pollutants and hormones, and how this risk can be reduced through lifestyle changes, studying whether a common virus in cows could be passed to humans and cause breast cancer, and learning how one type of dietary fat may reduce breast cancer.
- ◆ 24 projects will further our understanding of **how breast cancer develops**, including how new blood vessels form to feed tumors, and how this process can be interrupted, different pathways by which tumor cells are instructed to grow, and how this can be interrupted, and investigation of newly discovered genes involved in breast cancer progression.

- ♦ 15 projects will develop **new treatments for breast cancer**, including exploration of the effects of herbs used in Chinese medicine on side effects of chemotherapy, development of new drugs based on recent discoveries and new technology, interfering with blood vessels that feed tumors, and new ways to target drugs selectively to tumors.
- ♦ 5 projects are exploring **new ways to detect breast cancer**, including using biomarkers and detection of proteins and tumor cells in the blood and in fluid aspirated from the nipple, development and refinement of imaging technologies for better detection, and use of new technology for screening genes to detect cancer-associated changes.
- ♦ 5 projects are **exploring socio-cultural, behavioral, and psychological aspects** of breast cancer, including communication of risk to diverse populations, exploration of fatigue and memory problems associated with radiation and chemotherapy treatments, and new mechanisms to provide knowledge and support in making decisions to women diagnosed with breast cancer.
- ♦ 2 projects are in the area of **health policy**; examining the effects of peer navigators on women undergoing breast cancer treatment, and the relationship between race, ethnicity and socioeconomic status and breast cancer rates in California.
- ♦ 1 project will be done by a **team of community members/organizations and research scientists** focused on an issue identified by, and important to, communities in the state, the impact of peer navigators on the quality of life for women diagnosed with breast cancer.
- ♦ 5 projects are being done by **cross-disciplinary teams of research scientists** collaborating with each other to bring results of scientific research into practical application, including developing and testing new methods of finding breast cancer, searching for new drugs, and developing better ways to get drugs into tumors.
- ♦ 1 award is bringing together scientists who study the biology of the breast and experts in **new computer modeling techniques**, to explore how they might help each other make new discoveries.
- ♦ 1 award will bring experts from other fields together with breast cancer experts to **generate new ideas**.
- ♦ 21 projects are being performed by **new investigators in breast cancer**, which will help them establish careers in areas that will make an impact in breast cancer.
- ♦ 7 large projects were awarded in **areas that have been identified as relatively under-funded**, but important to advance our knowledge of breast cancer; namely biology of the normal breast, prevention and risk reduction, and socio-cultural, behavioral and psychological issues.
- ♦ 34 projects are exploring **new, innovative concepts** that may open up new avenues for breast cancer research and new options for prevention, detection and treatment of breast cancer.

More information, including detailed descriptions of these projects, progress reports for completed and on-going research projects, and application materials for the next funding cycle, can be found on the internet at <http://www.ucop.edu/srphome/bcrp/> or can be requested by calling (510) 987-9884 or toll-free (888) 313-BCRP.

Biology of the Normal Breast

The Role of NCo-R During Normal Mammary Gland Development

Baek, Sung Hee

University of California, San Diego

2 years, \$80,000

Cancer and Complexity: Questions for a New Millennium

Bissell, Mina J

Barcellos-Hoff, Mary Helen

Shyamala, G

Lawrence Berkeley National Laboratory

1 day conference, \$14,160

Pregnancy and Breast Cancer: an Immunological Connection?

Campbell, Michael J

University of California, San Francisco

2 years, \$75,000

Genetic Changes in Normal Epithelium of the Cancerous Breast

Dairkee, Shanaz H

California Pacific Medical Center

3 years, \$616,342

Method for Measuring Breast Epithelial Turnover in Humans

Hellerstein, Marc K

University of California, Berkeley

2 years, \$197,000

A Vascular Restriction of Mammary Tumor Progression

Oshima, Robert G

The Burnham Institute

2 years, \$384,466

Earlier Detection

Protein Markers in Nipple Aspirates for Breast Cancer

Chang, Helena

University of California, Los Angeles

2 years, \$200,000

*** Molecular Staging of Breast Cancer Progression**

Chuong, Cheng-Ming

University of Southern California

2 years, \$244,500

MRI for High Risk Breast Cancer Screening and Surveillance

Hylton, Nola M.

Ziegler, John

University of California, San Francisco

3 years, \$499,630

Non-Invasive Optical Characterization of Breast Physiology

Butler, John A

Tromberg, Bruce J

University of California, Irvine

3 years, \$499,915

Discovery and Study of Breast Cancer Secreted Proteins

Williamson, Elizabeth

Cedars-Sinai Medical Center

2 years, \$86,400

**Tax Check-off Award*

Etiology

Influence of Localized DDT Exposure on Breast Cancer

Davis, Vicki L.
Cedars-Sinai Medical Center
2 years, \$305,989

DNA Polymorphisms and Breast Cancer in a Multi-ethnic Cohort

Henderson, Brian E
University of Southern California
1 year, \$81,336

Mammography Density and Sex Steroid Genes

Ingles, Sue Ann
University of Southern California
1 year, \$105,902

Physical Activity and Diet in Adolescents with Disabilities

Koprowski, Carol M
California State University, Northridge
1 year, \$125,205

Tamoxifen-Induced Endometrial Cell Transformation

Lu, Zhimin
Salk Institute for Biological Studies
2 years, \$86,400

Breast Cancer in California Teachers-Regional Variations

Reynolds, Peggy
Public Health Institute
2 years, \$165,578

Profiling of Tyrosine Phosphatases in Breast Cancer

Tepper, Clifford G
University of California, Davis
2 years, \$147,250

Genes Determining Estrogen Susceptibility in Breast Cancer

Wei, Wensheng
Stanford University
2 years, \$86,400

Health Care Delivery and Health Policy



* **Does a Peer Navigator Improve Quality of Life at Diagnosis?**

Bliss-Isberg, Caroline
Central Coast Women's Cancer Consortium
Spiegel, David
Stanford University
1 year, \$164,926

Race/Ethnicity, Socioeconomic Status and Breast Cancer

Wright, William E
Public Health Institute
1 year, \$39,791

**Tax Check-off Award*

Innovative Treatment Modalities

Identifying the Breast Cancer Target for Indole-3-Carbinol

Chatterji, Urmi
University of California, Berkeley
2 years, \$80,000

Targeted Delivery of an Anti-breast Tumor Agent

Fujii, Gary
Molecular Express, Inc.
Hall, Fred L
Markland, Francis S
University of Southern California
2 years, \$684,996

Role of p14ARF in Metastatic Breast Cancer

Gjerset, Ruth A
Sidney Kimmel Cancer Center
2 years. \$383,800

Wnt Signaling in Breast Cancer: Translational Studies

Holcombe, Randall F
Marsh, J. Lawrence
Waterman, Marian L
University of California, Irvine
2 years, \$328,129

Cell-Based Immunotherapy for Breast Cancer

Jabrane-Ferrat, Nabila
University of California, San Francisco
2 years, \$125,371

Novel Agents for Treatment of Advanced Breast Cancer

Jong, Ling
SRI International
2 years, \$390,894

Novel Anti-Angiogenic Agents for Breast Cancer Therapy

Laderoute, Keith R
SRI International
2 years, \$372,372

Stress Protein and Drug Resistance in Human Breast Cancer

Lee, Amy S
University of Southern California
2 years, \$326,000

Computer-Aided Discovery of Novel Breast Cancer Therapeutics

Dawson, Marcia I
Loew, Gilda
Molecular Medicine Research Institute
1 year, \$147,232

A New Class of Drugs to Treat Breast Cancer

Robertson, Thomas
University of California, San Francisco
2 years, \$80,000

Arginine Deiminase as an Innovative Anti-Breast Cancer Agent

Shen, Wei-Chiang
University of Southern California
1 year, \$81,750

Thrombosis for Anti-angiogenic Therapy of Breast Cancer

Su, Min-Ying L
University of California, Irvine
2 years, \$200,000

Targeted Chemotherapy to Treat Breast Cancer

Szoka, Francis C
University of California, San Francisco
2 years, \$200,000

*** Chinese Herbal Therapy (CHT) for Symptom Management**

Tripathy, Debasish
University of California, San Francisco
2 years, \$200,000

Tea Polyphenol Analogs for Breast Cancer Chemoprevention

Zaveri, Nurulain T
SRI International
2 years, \$295,015

**Tax Check-off Award*

Pathogenesis

Anti-E-Cadherin Apoptosis of Inflammatory Breast Carcinoma

Alpaugh, Mary L
University of California, Los Angeles
2 years, \$80,000

Role of p53 in Irradiated Stroma and Mammary Carcinogenesis

Barcellos-Hoff, Mary Helen
Lawrence Berkeley National Laboratory
2 years, \$336,876

A Study of the Molecular Heterogeneity of LCIS

Barsky, Sanford H
University of California, Los Angeles
2 years, \$150,000

A Novel Signal Transduction Pathway in Breast Cancer

Cao, Yixue
University of California, San Diego
2 years, \$80,000

The Role of the BMK1-MEKK3 Pathway in Breast Cancer

Chao, Ta-Hsiang
Scripps Research Institute
2 years, \$86,400

Metastasis Suppressor Genes for Breast Cancer

Cohen, Stanley N
Stanford University
2 years, \$312,937

Profiling Serine Protease Activities in Breast Cancer

Cravatt, Benjamin
Scripps Research Institute
2 years, \$265,950

Role of MMPs in Breast Tumor Initiation and Aggressiveness

Fata, Jimmie E
Lawrence Berkeley National Laboratory
2 years, \$75,501

Studies on the Role of the ER-beta in Breast Cancer

Gilad, Eli
Lawrence Berkeley National Laboratory
2 years, \$80,000

Analysis of Genes Predictive of Breast Cancer Metastasis

Gregg, Jeffrey P
University of California, Davis
3 years, \$221,925

Analysis of Angiogenic Pathways in Metastatic Breast Cancer

Hindmarsh, Elizabeth
The Burnham Institute
2 years, \$86,400

Suppressor Genes of Breast Cancer

Huang, Shi
The Burnham Institute
1 year, \$195,000

TGF-B3 and small GTPases in Invasive Breast Cancer

Kaartinen, Vesa
Childrens Hospital, Los Angeles
3 years, \$333,557

Pathogenesis (cont'd)

Novel Mechanisms of ErbB-2-Mediated Breast Cancer Metastasis

Klemke, Richard
Scripps Research Institute
2 years, \$265,000

Cell Growth Control of Breast Epithelial Cells

Knaus, Ulla G
Scripps Research Institute
2 years, \$265,950

DNA Packaging Defects in Breast Cancer

Kohwi-Shigematsu, Terumi
Lawrence Berkeley National Laboratory
2 years, \$333,335

Analysis of a New Human Caspase in Breast Cancer

Lee, Sug Hyung
The Burnham Institute
2 years, \$86,400

Identifying Breast Cancer Targets for Protease Inhibitors

Liu, Yongsheng
Scripps Research Institute
2 years, \$86,400

The Control of Breast Cancer Cell Death

Mochly-Rosen, Daria
Stanford University
2 years, \$306,447

Tumor Suppression by Dystroglycan in Breast Epithelial Cells

Muschler, John L
Lawrence Berkeley National Laboratory
2 years, \$190,500

The Role of IL-8 and its Receptors in Angiogenesis

Schraufstatter, Ingrid
La Jolla Institute for Experimental
Medicine
1 year, \$155,500

A Novel Antigen Associated with Breast Cancer Metastasis

Testa, Jacqueline E
Scripps Research Institute
1 year, \$132,975

Cell Adhesion and Drug Resistance in Breast Cancer

Vuori, Kristiina
The Burnham Institute
1 year, \$190,773

Immortalization of Human Mammary Epithelial Cells by ZNF217

Yaswen, Paul
Lawrence Berkeley National Laboratory
2 years, \$249,792

* *Tax Check-off Award:*

The California Breast Cancer Research Program (BCRP) receives its funding through state appropriations from two sources:

- Revenue from a 2-cent-per-pack tax on cigarettes
- Revenue from the state income tax return check-off

Prevention

Bovine Leukemia Virus Infection and Human Breast Cancer Risk

Buehring, Gertrude C
University of California, Berkeley
2 years, \$189,387

Mechanisms of Reduced Metastasis by Conjugated Linoleic Acid

Erickson, Kent L
University of California, Davis
3 years, \$314,988

Mammographic Density, HRT and Hormonal Activity Genes

Mack, Thomas M
University of Southern California
2 years, \$734,185

Upregulation of BRCA1 as a Cancer Preventive Strategy

Williams-Hill, Donna M
University of Southern California
3 years, \$611,458

* **Genetic and Environmental Modifiers of Breast Cancer Risk**

Ziogas, Argyrios
University of California, Irvine
2 years, \$287,987

Socio-cultural, Behavioral and Psychological Issues



Mechanisms of Radiation-Induced Fatigue in Breast Cancer

Bower, Julianne E
University of California, Los Angeles
3 years, \$225,000

A Patient Decision Support Framework for Breast Cancer

Hunt, C. Anthony
University of California, San Francisco
2 years, \$150,000

Breast Cancer Prevention: The Views of Women and Physicians

Kaplan, Celia P
University of California, San Francisco
2.5 years, \$434,559

Communicating Breast Cancer Risk in Ethnically Diverse Women

Lillington, Linda
Harbor-UCLA Research & Education Institute
2 years, \$247,359

Cognitive Changes After Adjuvant Therapy for Breast Cancer

Rausch, Helen Rebecca
University of California, Los Angeles
2 years, \$199,997

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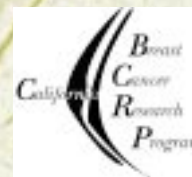
Katya Min
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Assistant Professor
Health Sciences Center
University of Washington



California Breast Cancer Research Program



Donations:

The mission of the California Breast Cancer Research Program is to reduce the impact of breast cancer in California by supporting research of breast cancer and facilitating the dissemination of research findings and their translation into public health practice.

There are two ways in which you can help us fight and end the tragedy of breast cancer by supporting the work of the BCRP:

- Check line 52 on your California Income Tax Return and make a donation of \$1 or more to our California Breast Cancer Research Fund.
- BCRP accepts donations mailed directly to the Program . Donation checks should be made payable to The Regents of the University of California, accompanied by a letter stating that the funds are designated for the Breast Cancer Research Program.

All contributions are tax-deductible and will be acknowledged with a return letter.

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University of California, Office of the President
California Breast Cancer Research Program
300 Lakeside Drive • 6th Floor
Oakland, CA 94612-3550



California Breast Cancer Research Program
University of California, Office of the President
300 Lakeside Drive • 6th Floor
Oakland, CA 94612-3550
Toll-free 1- (888) 313-BCRP (2277)
Phone: (510) 987-9884 • Fax: (510) 587-6325
E-mail: bcrp@ucop.edu

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