

From Research to Action



A Decade
of Progress

California Breast Cancer Research Program Symposium

September 12 - 14, 2003

San Diego Convention Center
and the Westin Horton Plaza



Sponsored by the
California Breast Cancer Research Program and
the University of California, San Diego School of Medicine

TABLE OF CONTENTS

Director's Welcome	3
Continuing Medical Education Credits.....	4
Financial Disclosures.....	5
Location, Transportation, and Accommodations.....	6
Symposium At A Glance	7
Convention Center Floor Plan	8
Westin Horton Plaza Floor Plan	9
Welcome and Poster Sessions.....	11
Breast Cancer 101 Workshop	12
Working with the Media Workshop	12
Poster Discussion Session A.....	13
Poster Discussion Session B.....	15
Poster Discussion Session C	16
Poster Discussion Session D	17
Poster Discussion Session E.....	19
Poster Discussion Session F.....	21
CBCRP Listens.....	23
Reception	25
Art Exhibition	26
Exhibitor Showcase	32
Meet the Experts Breakfast Session	34
Welcome.....	36
Plenary Session: Environment and Breast Cancer Prevention	38
Plenary Session Speakers	39
BREAKOUT SESSION 1	
Breast Cancer Control in California: Progress through Collaboration, Public Health Practice, and Research	42
BREAKOUT SESSION 2	
Emerging Topics in Breast Cancer Biology	43
KEYNOTE LUNCH	
Ten-Year Anniversary—A Decade of Progress.....	44
BREAKOUT SESSION 3	
New Treatment Strategies	46
BREAKOUT SESSION 4	
Diet and Breast Cancer	47
Poster Viewing Sessions	49
CBCRP Poster Session A.....	50
CBCRP Poster Session B	52
CBCRP Poster Session C	54
Cancer Detection Program—Every Woman Counts	56
CBCRP Poster Session D	58
CBCRP Poster Session E	60
CBCRP Poster Session F.....	62
Closing Ceremonies	65
Navigating the CBCRP Application Process.....	67
CRC Workshop.....	68
About CBCRP: What is the Breast Cancer Research Program?	70



CALIFORNIA

Breast
Cancer
Research

PROGRAM

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DIRECTOR'S WELCOME



On behalf of the Breast Cancer Research Program staff and Council, as well as the University of California, I am delighted to welcome you to the California Breast Cancer Research Program Symposium—From Research to Action: A Decade of Progress.

This symposium is a celebration—a celebration of ten years of progress and of the promise that lies before us. It is also a celebration of the contributions that each one of you makes whether at home, in your community, at the lab bench, in the clinic, in a private conversation, or from the lectern, as we strive to eliminate breast cancer from our lives. It is also a coming together; to learn, to debate, and to gather ideas and new energy that will hasten us to our goal.

By gathering together, we are focusing California's attention on an issue that matters to all women and their families'—in other words, to all of us—the biggest threat to young and middle-aged women's lives. Ten years ago, some of you and others no longer with us gathered in Sacramento to challenge the State of California to address this threat by investing in research. Legislators, advocates, scientists, and university officials worked together to create what is now the third largest funder of breast cancer research in the world—the California Breast Cancer Research Program. Over the past ten years, CBCRP has awarded nearly \$150 million to support 568 research projects to 62 institutions across the state. These projects, made possible by the CBCRP, have pushed boundaries and advanced discoveries in breast cancer research. The Symposium provides us all the opportunity to learn about these advances and to reflect on promising, innovative avenues of research for the coming decade. In honor of those who gathered in Sacramento a decade ago, let us challenge ourselves to ensure that the coming decade brings progress—more, better, faster. Today's research will propel us to tomorrow's action.

A handwritten signature in black ink that reads "Mhel Kavanaugh-Lynch".

Mhel Kavanaugh-Lynch, M.D., M.P.H.
Director, California Breast Cancer Research Program

CME

Learning Objectives

At the conclusion of the Symposium, participants should be able to:

- Understand and present to colleagues and patients the latest advances in the biology of breast cancer; in particular, gain an understanding of how the molecular and cellular pathogenesis of breast cancer will allow the development of new and improved strategies to prevent and treat breast cancer
- Learn about new targets and strategies for detection, diagnosis, prevention, and treatment of breast cancer and ways to improve patient quality of life
- Comprehend and describe to colleagues and patients the steps involved in transforming the results of basic research into clinical applications
- Understand and present to colleagues and patients how external factors and hormones are involved in the etiology, prevention, and treatment of breast cancer
- Better appreciate the needs of breast cancer patients, their family members and women at risk for breast cancer

Statement of Need

The content of this educational program was determined by rigorous assessment of educational need and includes program feedback, expert faculty assessment, literature review, and new medical knowledge.

Target Audience

This course is designed for physicians; nurses; and researchers, especially oncologists, pathologists, radiologists, general or family practitioners, psychiatrists and osteopaths involved in patient diagnosis, treatment, prevention, or post-cancer care.

Accreditation Statement

The University of California, San Diego School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (“ACCME”) “to provide continuing medical education for physicians.” The University of California, San Diego School of Medicine designates this educational activity for a maximum of 21.5 hours in category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Procedure for Receiving Medical Education Credits

Register at the CME registration desk at the symposium and pay the \$25.00 CME registration fee. Payments may be made by check payable to the University of California Regents.



**This activity is
sponsored by the
UC San Diego
School of Medicine**

FINANCIAL DISCLOSURES

Presenters that may include discussion of commercial products or services:

Bradley Arrick, M.D., Ph.D.
Barbara Brenner
Julia Brody, Ph.D.
Beverly Burns, M.S., B.A., L.Ac

Dartmouth College
Breast Cancer Action
Silent Spring Institute
Charlotte Maxwell Complementary Clinic

Nothing to Disclose:

Barbara Andreozi
Mina Bissell, Ph.D.
Shiuan Chen, Ph.D.
Barbara Cohn, Ph.D., M.P.H., M.C.P.
Robert Debs, M.D.
Georgianna Farren, M.D.
James Ford, M.D.
Jerianne Heimendinger, Sc.D, M.P.H., R.D.
Mhel Kavanaugh-Lynch, M.D., M.P.H.
Mary Ellen Mahoney, M.D., F.A.C.S.
Holly Mitchell
Selma Morris, M.Ed.
Marion Moses, M.D.
Robert Oshima, Ph.D.
Debra Oto-Kent, M.P.H.
Barbara Parker
Peggy Reynolds, Ph.D.
Jan Schnitzer, M.D.
Carol Somkin, Ph.D.
David Spiegel, M.D.
Georjean Stoodt, M.D., M.P.H.
Anne Wallace, M.D.
Sarah Weddington, J.D.
Margaret Wensch, M.P.H., Ph.D.
Anna M. Wu, Ph.D.
Nurulain Zaveri, Ph.D.

American Cancer Society
Lawrence Berkeley National Laboratory
Beckman Research Institute of the City of Hope
Public Health Institute
California Pacific Medical Center Research Institute
Marin Breast Cancer Watch
Stanford University
AMC Cancer Research Center
California Breast Cancer Research Program
Community Breast Health Project
Crystal Stairs
Breast Health Initiative
Pesticide Education Center
The Burnham Institute
Health Education Council
Breast Cancer Coalition of North Carolina
Environmental Health Investigations Branch, CDHS
Sidney Kimmel Cancer Center
Kaiser Permanente
Stanford University
Cancer Detection Section
University of California, San Diego
The Weddington Center
University of California, San Francisco
University of California, Los Angeles
SRI International

No Response:

Catherine, Carpenter, M.P.H., Ph.D.
Benjamin Cravatt, Ph.D.
Barbara Friedman
John Peterson Myers, Ph.D.
Malcolm, Pike, Ph.D.
John Reed, M.D., Ph.D.
Hope Rugo, M.D.
Thea Tlsty, Ph.D.
Henry Etta Waters Blackman, R.N.,P.H.N.,M.N.

University of California, Los Angeles
The Scripps Research Institute
Children's Burn Foundation
Our Stolen Future
University of Southern California
The Burnham Institute
University of California, San Francisco
University of California, San Francisco
California Detection Program—Every Woman Counts

LOCATION, TRANSPORTATION, and ACCOMMODATIONS

Hotel Accommodations

Westin Horton Plaza
910 Broadway Circle
San Diego, CA 92101

Convention Center

The San Diego Convention Center is located at 111 W. Harbor Drive, San Diego, CA 92101.

Meeting Sites and Directions

To the Westin Horton Plaza:

From the north: I-15. take I-15 south to 163 south. Highway 163 south will end and become 10th Ave. Turn right onto Broadway, then left onto Broadway Circle. The hotel is on right.

From the south: I-5 north-bound. Exit J St. (a one-way). Turn left onto Market St, then turn right onto 1st Ave. Turn right at E St. The hotel is on the corner.

From the east: I-8 east to 163 south. Highway 163 will end and become 10th Ave. Turn right onto Broadway, then left onto Broadway Circle. The hotel is on right.

From the west: I-5. Exit at Front St. (a one-way). Turn left at E St., and the hotel is on the right.

Tel: (619) 239-2200
Fax: (619)239-0509

To the San Diego Convention Center

Driving North on I-5: Take Crosby St. exit and turn left. Follow Crosby St. to Harbor Drive, turn right, and follow signage to parking entrance. Enter at door E of the Convention Center.

Driving South on I-5: Take Front St. exit. Turn left at Harbor Dr. and follow signage to parking entrance. Enter at door E of the Convention Center.

Driving West on I-8: Take I-8 west to 163 south. Highway 163 will end and become 10th Ave. Turn right onto Market St., then left onto 5th Ave. Turn right onto Harbor Dr. and follow signage to parking entrance. Enter at door E of the Convention Center.

Direction hotline: (619) 525-5002
Event hotline: (619) 525-5959



SYMPOSIUM AT A GLANCE

Friday, September 12, 2003



7:30am–8:00pm	Registration	Ballroom Lobby
7:30am–10:00am	Continental Breakfast	Ballroom 20B-D
	Art Exhibition (Friday–Saturday)	Ballroom 20D
12:00pm–5:00pm	Exhibitor Showcase	Hallway
8:00am	Welcome	Ballroom 20B-D
8:00am–10:00am	Poster Viewing	Ballroom 20B-D
8:30am–11:30am	Breast Cancer 101 Workshop	Ballroom 20A
9:00am–10:00am	Working with the Media Workshop	Room 32
10:00am–12:00pm	Poster Discussion Sessions	
	A: Tumor Environment, Invasion, and Metastasis	Room 33
	B: Gene Regulation and Targeted Therapies	Room 31
12:00pm–12:30pm	Box Lunch	
12:30pm–2:30pm	Poster Discussion Sessions	
	C: Breast Cancer Detection and Treatment	Room 33
	D: Breast Cancer Risk and Incidence	Room 31
2:30pm–3:00pm	Break	
3:00pm–5:00pm	Poster Discussion Sessions	
	E: Cell Growth Regulation and Drug Development	Room 33
	F: Stress Reduction and Improving Access	Room 31
5:00pm–6:00pm	CBCRP Listens	Room 32
6:00pm–8:00pm	Reception	Ballroom 20B-D

Saturday, September 13, 2003

7:00am–12:00pm	Registration	Ballroom Lobby
7:00am–8:00am	Continental Breakfast	Ballroom 20B-D
8:00am–6:00pm	Exhibitor Showcase	Hallway
7:15am–8:00am	Meet the Experts Breakfast Session	Ballroom 20B-D
8:15am–8:30am	Welcome	Ballroom 20A
8:30am–10:30am	Plenary Session: Environment and Breast Cancer Prevention	Ballroom 20A
10:30am–11:00am	Break	
11:00am–12:30pm	Breakout Sessions	
	Breast Cancer Control in California: Progress through Collaboration, Public Health Practice, and Research	Room 33
	Emerging Topics in Breast Cancer Biology	Room 31
12:30pm–2:00pm	Lunch	
	Keynote Address & Awards	Ballroom 20B-D
2:00pm–3:30pm	Breakout Sessions	
	New Treatment Strategies	Room 33
	Diet and Breast Cancer	Room 31
3:30pm–5:30pm	Poster Presentation	Ballroom 20B-D
5:30pm–6:00pm	Closing Ceremonies	Ballroom 20B-D

Sunday, September 14, 2003

(at the Westin Horton Plaza)

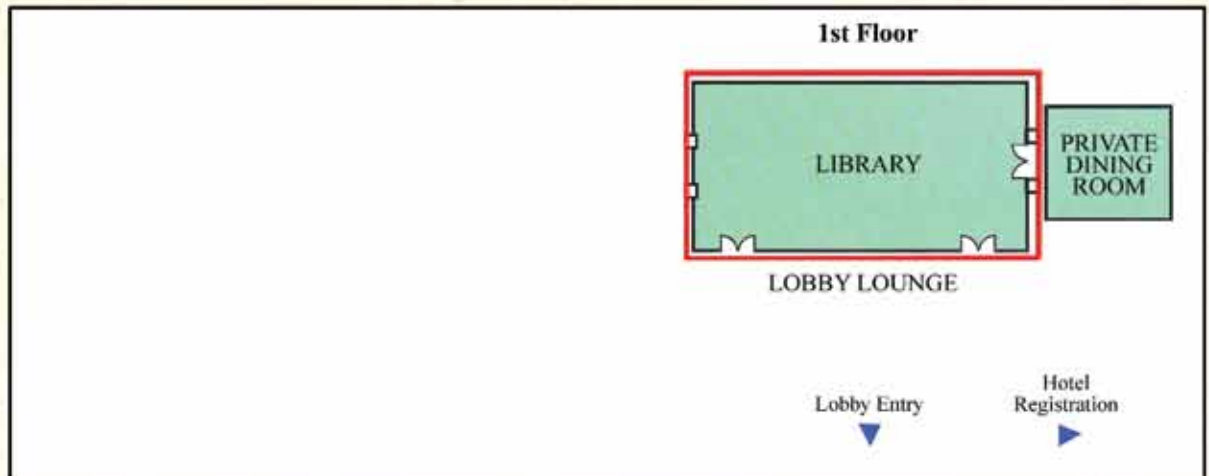
8:00am–9:00am	Continental Breakfast	
9:00am–12:00pm	Navigating the CBCRP Application Process Workshop	Plaza AB, 2 nd Floor
9:00am–2:00pm	Community Research Collaboration Workshop	Library, 1 st Floor
12:00pm–2:00pm	Lunch	Garden Pavilion, 4 th Floor

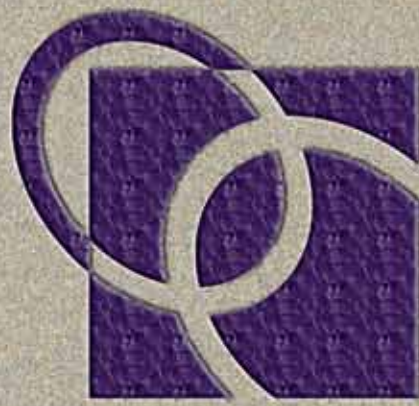
WESTIN HORTON PLAZA FLOOR PLAN

Symposium activity areas shown in red.



2nd Floor





CALIFORNIA
Breast
Cancer
Research
PROGRAM

Visit us at the CBCRP booth!

- ◆ Learn about how CBCRP has been putting your dollars to work.
- ◆ Find out how to apply for CBCRP grants.
- ◆ Meet the CBCRP staff.
- ◆ Learn how *you* can help CBCRP find the prevention, treatment, and cure for breast cancer.

WELCOME and POSTER SESSIONS

Friday
September 12, 2003

Welcome (8:00am)

Mhel Kavanaugh-Lynch, M.D., M.P.H., Director,
California Breast Cancer Research Program

Posters of the most recent results in CBCRP-sponsored research will be displayed beginning at 8:00am. Investigators will describe their research in depth at six moderated poster discussions occurring through the day:

- ◆ Tumor Environment, Invasion, and Metastasis (10:00am–12:00pm)
- ◆ Gene Regulation and Targeted Therapies (10:00am–12:00pm)
- ◆ Breast Cancer Detection and Treatment (12:30pm–2:30pm)
- ◆ Breast Cancer Risk and Incidence (12:30pm–2:30pm)
- ◆ Cell Growth Regulation and Drug Development (3:00pm–5:00pm)
- ◆ Stress Reduction and Improving Access (3:00pm–5:00pm)

WORKSHOPS

Friday
September 12, 2003

Breast Cancer 101 Workshop (8:30am–11:30am)

▶ Ballroom 20A

Workshop Leader: [M. Ellen Mahoney, M.D., F.A.C.S.](#)

This workshop will teach the fundamentals of breast cancer basic science and clinical outcomes to symposium attendees who do not have a background in scientific research.

The history of breast cancer treatment will be presented, along with the rationale for the way the field has developed in the laboratory and at the bedside to date. Concepts of molecular oncology, genetics, epidemiology, and the scientific basis for treatment choices will be explored and explained. The workshop is designed for participants who know about the clinical aspects of breast cancer decision-making but who may not understand the nuances of the science so far. This material is being presented at the beginning of the symposium in order to set the stage for enhanced understanding of the material presented in subsequent sessions. The scientific basis for the research funded by CBCRP will become clearer, and the future direction of the field more understandable.

Researchers in the basic sciences who are unfamiliar with the clinical aspects of breast cancer may also find the workshop useful in demonstrating where and how principles of molecular oncology are used in medical practice.

Working with the Media (9:00am–10:00am)

▶ Room 32

Workshop Leader: [Teresa Modnick](#)
Visual Evidence

Media Mastery media training conducted by Visual Evidence will offer an overview of techniques to help participants feel more comfortable when speaking with the press. The innovative and interactive session will include instruction about strategic messaging, development of interview objectives, types of questions to expect, body language and “what to wear” for an interview. Visual Evidence is a leader in media training, with nearly 20 years of experience preparing individuals and organizations to effectively handle any type of media situation. Topics to be covered during the seminar will include:

- ◆ Interview Arrangements and Logistics
- ◆ Reaching the “Real” Audience
- ◆ Interview Strategies and Message Development
- ◆ Bridging from Tough Questions to Strategic Messages
- ◆ Types of Questions
- ◆ Dress and Appearance
- ◆ Body Language
- ◆ Building Rapport with the Press

At the conclusion of the session, participants will have learned skills and techniques to become effective and articulate spokespersons.

Tumor Environment, Invasion, and Metastasis (10:00am–12:00pm)

▶ **Room 33**

Discussant: Robert Oshima, Ph.D., The Burnham Institute

A-01

The Impact of Irradiated Stroma on The Tumorigenic Potential Of Tp53 Null Mammary Outgrowths

Mary Helen Barcellos-Hoff
Lawrence Berkeley National Laboratory, Berkeley

A-03

β -arrestin-dependent Sequestration of MAPK to Leading Edge of Polarized Cells is Involved in Protease-Activated Receptor-2 Induced Chemotaxis

Kathryn DeFea
Department of Biomedical Sciences, University of California, Riverside

A-04

Importance of the Id-1/Id-2 Ratio in Normal and Cancerous Breast Cells

Pierre Yves Desprez
California Pacific Medical Center, San Francisco

A-05

Matrix Metalloproteinases in Mouse Mammary Carcinoma

Mikala Egeblad
Department of Anatomy, University of California, San Francisco

A-06

Reduced Breast Cancer Metastasis by Dietary Conjugated Linoleic Acid

Kent L. Erickson
University of California, Davis

A-07

The Development of E-cadherin Mutants to Examine Matrix-Metalloproteinase-Mediated Epithelial-to-Mesenchymal Transition in Mammary Epithelial Cells

Jimmie E. Fata
Life Sciences Division, Lawrence Berkeley National Laboratory

A-08

FKBP Genes Possess Anti-Tumor Functions Against Breast Cancer

Robert Debs
California Pacific Medical Center
Poster Presenter: Sylvia Y. Fong

A-09

Activity Based Protein Profiling of Active Metalloproteases in Breast Cancer

Arul Joseph
The Scripps Research Institute, La Jolla

A-10

Effects of Aging Stroma on Breast Tumorigenesis

Ana Krtolica
Lawrence Berkeley National Laboratory, Berkeley

A-11

Novel Extracellular Heparin-Degrading Endosulfatases and Breast Cancer

Steven D. Rosen
University of California, San Francisco

A-12

Effect of Extracellular Matrix Signaling on Double-Strand Break Repair

Aylin Rizki
Lawrence Berkeley National Laboratory, Berkeley

B-01

Friday
September 12, 2003

A-13

Clotting Breast Cancer

Michael Samoszuk
University of California, Irvine

A-14

**Proteomic Mapping, Targeting, and Imaging of
the Breast Tumor Neovasculature and its Caveo-
lae**

Jan E. Schnitzer
Sidney Kimmel Cancer Center, San Diego

Gene Regulation and Targeted Therapies (10:00am–12:00pm)

▶ **Room 31**

Discussant: Robert Debs, M.D., California Pacific Medical Center

End Sequence Profiling (ESP): A Sequence-Based Approach to Structural Analysis of Tumor Genomes

Colin Collins
UCSF Comprehensive Cancer Center, San Francisco

B-02

Enhanced HER2-Directed Liposomal Therapeutics

Daryl C. Drummond
California Pacific Medical Center Research Institute, San Francisco

B-03

IGF-1 Receptor Inhibitors in the Treatment of Breast Cancer

Jack Youngren
University of California, San Francisco
Poster Presenter:
Karissa Gable

B-04

Tumor Suppression by a p14ARF/p53 Bicistronic Adenovirus

Ruth A. Gjerset
Sidney Kimmel Cancer Center, San Diego

B-05

Roles of BRCA2 in Homologous Recombinational Repair

Yi-Ching Lio
Lawrence Berkeley National Laboratory, Berkeley

B-06

A New Genetic Vaccine Therapy for Breast Cancer

Edward L. Nelson
University of California, Irvine

B-07

Whole Gland Analysis of Cancer Initiation and Progression in the Mouse Mammary Gland

Carlos Ortiz de Solorzano
Lawrence Berkeley National Laboratory, Berkeley

B-08

Locating Novel Breast Cancer Genes using DNA Microarrays

Jonathan Pollack
Stanford University School of Medicine, Palo Alto

B-09

Modulation of MKP-1 in Response to Chemotherapeutic Agents

Clifford G. Tepper
University of California, Sacramento

B-10

Functional Characterization of the ZNF217 Oncogene Amplified and Overexpressed in Human Breast Cancers

Paul Yaswen
Lawrence Berkeley National Laboratory, Berkeley

B-11

Characterization of ATR's DNA Binding Activity

Dawn Yean
Stanford University, Palo Alto

B-12

Regulation of EGFR Signaling Through Alternative Splicing

Cheryl Van Buskirk
California Institute of Technology, Pasadena

C-01

Friday
September 12, 2003

Breast Cancer Detection and Treatment (12:30pm–2:30pm)

▶ **Room 33**

Discussant: Anne Wallace, M.D., University of California, San Diego

What Do Young Patients Want to Know About the Ovarian Toxicity of Chemotherapy?

Lucy Berlin
Young Moms with Breast Cancer, San Jose
Lynn Westphal
Stanford University, Palo Alto
Hope Rugo
University of California, San Francisco

**C-02
Mechanisms of Radiation-Induced Fatigue**

Julienne E. Bower
University of California, Los Angeles

**C-03
Protein Markers in Nipple Aspirates for Cancer Detection**

Helena Chang
University of California, Los Angeles

**C-04
Herba Scutellaria Barbatae for Metastatic Breast Cancer (MBC)**

Hope Rugo
University of California, San Francisco

**C-06
Patient-Individualized Chemotherapy in Breast Cancer**

Daniel H. Silverman
University of California, Los Angeles
Poster Presenter:
Amanda L. Kesner

**C-07
Prospective Evaluation of Cognitive Effects of Adjuvant Chemotherapy in Patients with Breast Cancer**

Rebecca Rausch
University of California, Los Angeles

C-08

Combining Patient and Research Priorities: Lessons Learned in a Community Research Collaboration Design of a Clinical Trial

Hope S. Rugo
University of California, San Francisco
Lucy Berlin
Young Moms with Breast Cancer, San Jose

**C-09
Clinical Utility of Breast Cancer DNA Markers in Serum and Bone Marrow Aspirates**

Dave S.B. Hoon
John Wayne Cancer Institute, Santa Monica
Poster Presenter:
Bret Taback

**C-10
New Imager to Improve Specificity in Breast Cancer Detection**

Kai Vetter
Christine Hartmann-Siantar
Lawrence Livermore National Laboratory
Gerald DeNardo
University of California, Davis

**C-11
Selective Targeting of Breast Cancer with Radioiodide in Nude Mice**

Irene Wapnir
Stanford University, Palo Alto

**C-12
2D Correlated MR Spectroscopy and Multivariate Analysis of Breast Cancer**

M. Albert Thomas
Nathaniel Wyckoff
University of California, Los Angeles

Breast Cancer Risk and Incidence (12:30pm–2:30pm)

▶ **Room 31**

Discussant: Barbara Cohn, Ph.D., M.P.H., M.C.P., Public Health Institute

D-01

Chronic Respiratory Illness During Pregnancy and Risk of Maternal Breast Cancer

Barbara A. Cohn
Public Health Institute, Berkeley
Poster Presenter:
Piera M. Cirillo

D-02

Can Placental Factors Explain Race Patterns of Breast Cancer?

Barbara A. Cohn
Public Health Institute, Berkeley

D-03

The Role of Community Risk Factors and Resources on Breast Cancer Outcomes

Pamela L. Davidson
Roshan Bastani
University of California, Los Angeles
Poster Presenters:
Terry Nakazono
Daisy Carreon

D-04

Quantifying Breast Composition for Breast Cancer Risk using X-ray Absorptiometry

John A. Shepherd
University of California, San Francisco
Poster Presenter:
Lionel Herve

D-05

Dietary Fat, Fat Metabolizing Genes and Breast Cancer Risk

Sue Ann Ingles
University of Southern California
Poster Presenter:
Jun Wang

D-06

Breast Cancer Screening in Hmong Women Pre and Post Intervention Study

Marjorie Kagawa Singer
UCLA–School of Public Health and Asian American Studies, Los Angeles
Mary Anne Foo
Orange County Asian and Pacific Islander Community Alliance

D-07

Polymorphism in the Androgen Receptor and Mammographic Density

Elizabeth Lillie
University of Southern California, Los Angeles

D-08

Regression Analysis of Pesticide Use Data and Breast Cancer Incidence in California Latinas

Paul K. Mills
Cancer Registry of Central California, Fresno
University of California Fresno Medical Education Program, San Francisco

D-09

Molecular Marker Expression, Adjuvant Therapy and Breast Cancer Mortality

Michael Press
University of Southern California, Los Angeles
Shelley M. Enger
Kaiser Permanente Southern California, Pasadena

D-10

The Higher Expressing MPO Genotype Is Associated With Reduced Tumor Size and Less Lymph Node Involvement in Breast Cancer

Wanda F. Reynolds
Sidney Kimmel Cancer Center, San Diego

E-01

Friday
September 12, 2003

D-11

Breast Cancer Risk Factors in a High Risk Population

Georgiana Farren
Marin Breast Cancer Watch, San Rafael
Margaret Wrensch
University of California, San Francisco

D-12

Green Tea, Soy, and Risk of Breast Cancer in Asian Americans

Anna H. Wu
University of Southern California, Los Angeles

18

D-13

Genetic and Environmental Modifiers of Risk to Breast Cancer

Argyrios Ziogas
University of California, Irvine

Cell Growth Regulation and Drug Development (3:00pm–5:00pm)

▶ Room 33

Discussant: Nurulain Zaveri, Ph.D., SRI International

Apoptosis of Breast Cancer Cells by Combination of Retinoids and Chemotherapeutic Agents

Nathalie Bruey-Sedano
The Burnham Institute, La Jolla

E-02

In Vivo Effects of Chinese Herbal Extracts on Breast Cancer

Michael J. Campbell
University of California, San Francisco

E-03

Role of Coactivator ACTR/AIB1 in Breast Cancer Cell Proliferation

Hongwu Chen
University of California Davis Cancer Center, Davis
Poster Presenter:
Maggie C. Louie

E-04

Dietary Indole Effect on Estrogen Urinary Metabolites

Kathie Dalessandri
Stanford University, Palo Alto
Gary Firestone
Leonard Bjeldanes
University of California, Berkeley

E-05

SR13668: A Promising Dietary Indole Analog for Breast Cancer Therapy

Ling Jong
SRI International, Menlo Park

E-06

Conjugated Linoleic Acid can Alter Proliferation

of Mammary Tumor Cells Independent of Eicosanoid Metabolites

Kent L. Erickson
University of California, Davis
Poster Presenter:
Jung-Hyun Kim

E-07

The Use of *In Vitro* and Animal Models to Study the Consequence of Essiac Tea Exposure on the Mammary Gland

Kristen S. Kulp
Lawrence Livermore National Laboratory, Livermore

E-08

Method of Measuring Breast Epithelial Cell Turnover in Humans

Marc Hellerstein
University of California, Berkeley
Poster Presenter:
Lisa Misell

E-09

Breast Cancer Prevention with Estrogen: Microarray Analysis

Satyabrata Nandi
University of California, Berkeley
Poster Presenter:
Rajkumar Lakshmanaswamy

E-10

Roles of p160 Transcriptional Coactivators in Mammary Gland Development and Tumorigenesis

Zhiyong Wang
The Salk Institute for Biological Studies, San Diego

F-01

Mood in Women Treated for Early Stage Breast

Friday
September 12, 2003

E-11

The Potential Role of a New LIM Factor, LMO4, in Breast Cancer

Bogi Andersen

University of California, Irvine

Poster Presenter:

Ning Wang

E-12

Growth Inhibitory and Growth Promoting Signals in Breast Epithelial Cells

Cindy A. Wilson

University of California, Los Angeles

20

E-13

Novel Synthetic Analogs of Green Tea Catechins and their Biological Activity

Nurulain T. Zaveri

SRI International, Menlo Park

E-14

A Novel Approach for Killing Breast Cancer Cells

Xiao-kun Zhang

The Burnham Institute, La Jolla

E-15

Muc4 Modulation of ErbB Receptor Signaling

Colleen Sweeney

University of California, Davis

Poster presenter:

Melanie Funes-Duran

Stress Reduction and Improving Access (3:00pm–5:00pm)

▶ **Room 31**

Discussant: David Spiegel, M.D., Stanford University

Cancer is Associated with Psychological and Physical Symptoms—Not Cancer-Related Variables

Wayne A. Bardwell
University of California-San Diego, Psychiatry

Roshan Bastani
University of California, Los Angeles
Poster Presenter:
Guadalupe Gonzalez

F-02

Cultural Response to Breast Cancer Early Detection Messages

Yewoubdar Beyene
University of California, San Francisco

F-07

Alternative Support for Rural and Isolated Women in an HMO

Cheryl Koopman
Stanford University, Palo Alto
Mary Anne Kreshka
Sierra College, Nevada City

F-03

Risk Notification for Women at High Risk for Breast Cancer

Susan L. Stewart
Northern California Cancer Center
Joan R. Bloom
University of California, Berkeley
Marion Lee
University of California, San Francisco

F-08

Expressing Negative Emotions in BC Internet Support Groups; Comparing Professional and Lay Led Groups

Morton A Lieberman
University of California, San Francisco
Mitch Golant
The Wellness Community, Santa Monica

F-04

Children's Stress during Mothers' Treatment for Breast Cancer

Dalia G. Ducker
California School of Professional Psychology, Alameda
Ellen G. Levine
California Pacific Medical Center, San Francisco

F-09

Women's Experiences with Metastatic Breast Cancer—Construction of Meaning and Stress

Jill Mitchell
University of California, Los Angeles

F-05

Increasing Community Awareness of Clinical Trials: A Collaborative Approach

Patricia Ganz
University of California, Los Angeles
Kathleen Brown
Association of Black Women Physicians, Los Angeles
Poster Presenter:
Melissa Farmer

F-10

A Network-Based Intervention for Chamorros in Southern California

Sora Park Tanjasiri
University of California, Irvine
Lola Sablan-Santos
Guam Communications Network, Long Beach
Poster Presenter:
Lourdes Quitugua

F-06

Defining Social Support among Spanish-Speaking Women with Breast Abnormalities Suspicious for Cancer

F-11

Structure for Breast Cancer Care: A Conceptual Framework

Katherine L. Kahn

POSTER DISCUSSION SESSION F

Friday
September 12, 2003

University of California, Los Angeles
Poster Presenter:
Diana M. Tisnado

CBCRP Listens (5:00pm–6:00pm)

▶ Room 32

Symposium participants will have the opportunity to talk directly with CBCRP Council members and the program director, Mhel Kavanaugh-Lynch.

We encourage comments and opinions about:

- ◆ the most urgent and unanswered questions about breast cancer
- ◆ the greatest opportunities to making an impact on the burden of breast cancer in California
- ◆ any other issues that are important to discuss with CBCRP Council members and the director

This open forum will encourage participants to speak directly with those charting the future of CBCRP's funding priorities.

Come let us know where you think the CBCRP should be heading!

CHECK IT CHECK IT OFF OUT



FUND BREAST CANCER RESEARCH

California
Breast
Cancer
Research
Program

**Make a voluntary contribution to the
California Breast Cancer Research Program
on line 56 of your
California state income tax form.**

Made
Possible
By You.

Support grants to prevent, treat, and cure breast cancer

Today's research could lead to discoveries that help save the lives of
4,200 California women who die of breast cancer each year.

RECEPTION

Friday
September 12, 2003

Networking Reception (6:00pm–8:00pm)

▶ **Ballroom 20B-D**

In 2003, the CBCRP awarded approximately \$11.5 million to fund 48 new projects. The reception will give attendees the opportunity to learn about the newest research being funded by the CBCRP. The art exhibit will allow attendees to rediscover the reasons why it is so crucial that the research move us closer to eliminating this devastating disease. Newly CBCRP-funded investigators will be on hand to discuss their projects, and symposium artists will be available to share the work they have created.

Friday
September 12, 2003

Curatorial Statement

The diverse perspectives in this exhibition reflect the far-reaching impact of breast cancer. The exhibition includes work from individuals diagnosed with breast cancer, their family members, and dear friends. Works range from the political to the personal, from the celebration of life to the processing of profound loss. Some of the participants are seasoned, award-winning artists while others have newly discovered the transformative power of art, employing it as a vehicle for healing and growth for the first time. With each unique perspective comes extraordinary vision and courage. These works collectively contribute to the chorus of voices of those impacted by the disease and continue the legacy of bringing the very human elements of breast cancer to the forefront of the symposium.

—Catherine Saiki

Artist Biographies

African American Task Group and Contra Costa Breast Cancer Partnership

The Contra Costa Breast Cancer Partnership's African American Task Group responded to an urgent need to reach African American women with early detection, screening, survivorship, and community resource information. The calendar project, "Celebrate! Reflections Beyond Surviving," is a culturally competent breast cancer education project designed to encourage and inspire African American women to perform monthly breast self-exams, to have annual clinical breast exams or mammograms, and to access community services. The twenty-one month calendar features African American breast cancer survivors depicted as role models, leading active, productive, and healthy lives because of early detection and access to community resources.

26



"Personal Touch", Aminah Bakeer Abdul-Jabbaar

Aminah Bakeer Abdul-Jabbaar

"Personal Touch" is the story of a young woman's memory of her mother's experience with breast cancer. The film is a bold peek into the often-silent world of the daughters of women who have passed away from breast cancer. Aminah Abdul-Jabbaar decided to make this film after she found a lump in her own breast as way to confront her own fears surrounding a potential diagnosis, and to help her cope with her mother's death. The film won the Liddel Art Award from the Ann Arbor Film Festival in 2000 and has appeared on PBS's Fine Cut Series. In 2002, the film screened in the LUNAFEST Breast Cancer Tour. Abdul-Jabbaar currently teaches broadcasting and cinema courses at West LA College.

Nell Angelo

In 1998 Nell Angelo underwent a mastectomy. One year later, she began experiencing anniversary-related reactions and was inspired to begin a series of works, which would explore the impact of having been diagnosed with, and treated for, breast cancer. While initially concerned with the more formal elements of her photography, the barriers soon gave way to more personal work, infused with emotion and saturated with color. She was keenly aware of the multi-layered nature of each image; for example, many could simultaneously be seen as deadly serious, comical, and lushly beautiful. As she further acclimated to life following diagnosis, her focus broadened to include more general body image issues. The photograph of her friend and collaborator, Kay, entitled, "Kay With Oranges" is a portrait from this series.



"Prayer", Stefanie Atkinson

Stefanie J. Atkinson

Stefanie Atkinson is a professional photographer with a background in motion graphic design and art direction for television and film. She is the recipient of an Emmy Award and numerous Broadcast Design Association awards. In 2002 Atkinson met Angela Padilla, Angela's partner, Amy, and their recently adopted baby, Bella. Angela had just been diagnosed with breast cancer and she asked Atkinson to document her journey through treatment to recovery. For the past year, Atkinson has been a quiet witness to intimate, frightening, and precious moments of Angela's journey, including the celebration of Bella's first birthday. The photograph "Trinity" is a glimpse of Angela with her family before surgery. "Prayer," was taken at Glide Church in between chemotherapy treatments, and "Reflection" is an image of Angela following radiation treatment, facing herself and her fear that the cancer may return.

Anne Bement

"I remember the day as though it was yesterday. After months of meditating and healing following my mastectomy, I felt I was able once again to meet the world...not without fear, but with the knowledge that each day would be more valuable than any day that came before I learned I had breast cancer. It is that moment of intense, private recog-

ognition that I wanted to express in this photograph; I was rejoining the outer world with optimism and hope." It is with a keen eye and careful application of oils, dyes, inks, and acrylics onto the surface of silver prints that Anne Bement has achieved her highly individualized style. She has exhibited locally, as well as nationally, and her work resides in numerous private and public collections, including the San Francisco Public Library.

Sally Blevins

Sally Blevins began painting "ENOUGH!!" when she counted and realized that over thirty of her friends had been diagnosed with breast cancer, and most had undergone mastectomies. The painting served as an outlet for Blevins' frustrations and anger surrounding breast cancer and its ravaging effects. The woman in the painting is holding her hand up both in defiance of the disease and also as a plea for help to end the epidemic. "Her other hand," according to Blevins, "covers where her breast once was, but which now is merely her wounded heart". After the completion of the painting, Sally learned of the unexpected loss of yet another close friend from breast cancer. In frustration, Blevins returned to the painting and added the blood pouring from the wound in her own heart as well as that of the woman portrayed in the painting.

Breast Art, courtesy of CBCRP, Denise Dalton, and contributing artists

Unique pieces of wearable "Breast Art" are on display and worn by cancer survivors attending the exhibition. The artwork, worn over places of trauma, represents a symbol of courage and life. The original project, conceived of by co-curators Denise Dalton, a breast cancer survivor, and Roxanne O'Brien, was developed to raise money for breast cancer research and to open new doors of self-expression for women diagnosed with the disease. These works were created to be part of a woman's attire as a fashion accessory, adornment, and statement. Frankie Hansbearry, one the original participating artists, created "Hand and Heart". The work of art was created in the shape of a hand to express self-nurturing and vulnerability. Hansbearry

Friday
September 12, 2003

mused that while the sculpture was an exercise in patience (it is meticulously covered with a design using brilliant, indigo-blue beads) it was a work of art that truly evolved on its own.

Anita Bowen

Nava Frank invited Anita Bowen into her life when she was first diagnosed with Stage IV breast cancer. Nava's mother died of the same disease when she was an infant. Bowen's role was to act as a witness to her struggle and also to provide a creative outlet for her experiences with breast cancer. Nava would call Bowen with an idea and off they would go with camera in tow. Together they explored themes such as body image, sexuality, spirituality, and illness. Later, as her illness progressed, she asked Bowen to join her during the numerous hospital visits. Bowen writes, "I felt extremely honored and privileged to record and witness Nava's life...If the photograph can act as a vehicle for growth or understanding, especially in the human endeavor to survive, I could not wish for anything more."

Sofia Carmi

Sofia Carmi was born in Jerusalem and moved to the United States when she was 6 years old. Knowing very early on that she wanted to pursue art professionally, she earned her B.A. from Ontario College of Art in Toronto. She is a strong believer in the healing power of artistic expression, and sees creativity as magic of the soul. "Musical Torso" captures both the joy of living and the sorrow of physical pain that can often accompany life. It draws inspiration from her relationship with her mother, who was diagnosed and treated for breast cancer. Carmi has exhibited in the United States and Europe.

Rosalie Ann Cassell

Rosalie Ann Cassell worked on these watercolor and ink images to keep herself calm and hopeful during her intense and terrifying period of diagnosis and treatment for breast cancer in 1989. Although she never envisioned that anyone else would see these personal works, they have been widely exhibited and published. She is continually amazed at the response they have received. Cassell has found that when times get tough, confusing, and frightening, working artistically is invaluable not only as part of the healing process, but as a journey in and of itself.

Lauren Davies

In 2001, Lauren Davies was diagnosed with a recurrence of breast cancer. "Sampler", a record of her personal and trying journey is a contemporary version of the old style needlepoint sampler that typically featured inspirational quotes or affirmations surrounded by decorative flowers. Her contemporary sampler presents a quote from writer Edna O'Brien that resonates with her own experience, "*The body contains the life story just as much as the brain.*" Surrounding the text are rosettes made from her hospital bandages. Dried, dark red bloodstains left on the bandages are suggestive of rose blossoms. Created initially for her eyes only, "Sampler" remains the only piece that Lauren has created about her experience with breast cancer."

Amelia Davis

Amelia Davis is a professional photographer based in San Francisco. Her work has been featured in magazines, textbooks and numerous solo and group exhibitions. *The First Look* is a bold collection of portraits of, and essays by, women living, postoperatively, with breast cancer. It has won two awards since it was published in 2000. Davis embarked upon the project in honor of her mother's journey through breast cancer treatment. The photographs, capturing the resilience of the human spirit, empower women facing surgery with a direct and honest look at life after diagnosis.

Victoria Andrea Doria

In "The Goddess of Heart", Victoria Andrea Doria explores the beauty, vitality, and voluptuousness of a woman who has undergone a mastectomy. She considers the piece to be a modern interpretation of the Greek classic sculpture. The mosaic work decorating the figure was created using a reverse application process; rather than placing the glass pieces on top, they are carefully embedded as part of the original casting. Using a complex process involving gypsum, resins, Italian glass, and patina, Doria uses the human figure to portray expressions of comfort, abundance and love.



Above: "New Body", Marilee Ford

Marilee Ford

When Marilee Ford was diagnosed with breast cancer, she was in the midst of obtaining her masters degree at JFK University. The focus of the program was on the transformative power of art. Externalizing her experiences through creative means (painting, sculpting, and writing among them) enabled her to heal from the trauma of it. As a Hospice Nurse, she also offers classes to health care personnel who wish to explore alternative means of healing. "New Body" reflects the post-operative changes that her body has undergone, "I am now a member of the one-breasted warrior clan. There is beauty there, and in that beauty can be found healing."

Sylvia Colette Gehres

Sylvia Colette Gehres started her first life-drawing class two years before breast cancer diagnosis. Despite undergoing a series of treatments—a lumpectomy followed shortly by a mastectomy, then chemotherapy and radiation—she remained committed to creating her art. It

was during support meetings at The Wellness Community that she realized art was her true passion. She is grateful that these years have provided her with the needed time to create these works of art. She acknowledges that, in a strange way, cancer was the catalyst for the gift of art in her life. Gehres has since exhibited nationally, as well as internationally, participating in shows as far reaching as Hong Kong.

Susan Gray

The name of the work, "Raging Light", is taken from the Dylan Thomas poem that ends, "Do not go gentle into that goodnight... Rage, rage against the dying of the light." The lightning shapes in the center panel represent both the raging path of breast cancer through so many innocent lives, as well as the healing energy that flows through and around us as we struggle with this disease. The names on the quilts represent individuals who have fought valiantly to keep cancer from extinguishing the light of their spirits. "Sunrise Summit" commemorates the Breast Cancer Fund's climb of Mt. Fuji in Japan in August 2000. Gray was a member of the climbing team and took "Raging Light"—and the spirits of all whose names are present on the panels—to the top of the mountain. "The climb was a simple metaphor—we struggle to conquer breast cancer because we have to; we conquer mountains like Mt. Fuji because we can!"



"Sunrise Summit",
Susan Gray



Friday
September 12, 2003



Above: *"Target"*, Judy Hiramoto

Judy Hiramoto

Judy Hiramoto is an interdisciplinary artist utilizing ceramics, photographs, digital imagery, and mixed media installations. Hiramoto began the nuclear culture series in 1995 to commemorate fifty years of the nuclear age. She draws parallels between radiation exposure and increased breast cancer risk. Hiramoto noted that after dropping the first atomic bombs on Japan during World War II, the United States subsequently began an undeclared war on its own

citizens when it relentlessly tested bombs in Nevada, spreading radioactive fallout over its own people. Hiramoto has participated in over two-hundred exhibitions in the United States, Canada, Japan, Taiwan and France.

Toby Jones

Toby Jones began the Fiberglass Busts Project to process the pain surrounding the loss of his mother to breast cancer. With each new sculpture, he experimented with stronger and more durable materials—ultimately incorporating Kevlar, a material used in the creation of bulletproof vests. It was then that he realized he was subconsciously attempting to create breasts that were impervious to breast cancer. What began as an art project grew into a metaphorical fight against the disease. The luster and strength of the materials involved pays tribute to the beauty and resiliency of the human spirit. The end result was the gift he wanted to give his mother.

Arlene Linder

In May of 1994, Arlene Linder discovered that her daughter, Michelle, had breast cancer. Linder's family was informed that it was moving so quickly that Michelle would be lucky to live six months. What followed was a year of agonizing treatments. Linder was able to make it through the experience by drawing her daughter during the different stages of the treatments. Each work was drawn in a sketchpad while Linder sat by her daughter's bedside at UC Medical Center. Eleven years have passed and Michelle is doing great. Linder writes, "The world is out there, and she is going to live every minute to the max." Michelle is currently working on producing a movie, entitled "Surviving the Cure", a realistic portrayal of surviving breast cancer treatment and beating breast cancer. She is donating a percentage of the proceeds to breast cancer research.



"Sunburn", Kit Morris

Kit Morris

To Kit Morris, photography is a form of storytelling. With twenty-five years of experience in commercial photography, she considers her recent involvement in photographing people who have survived challenging health battles as the most rewarding. With her own diagnosis of breast cancer in 1996, she used the visual therapy of photography to arrive at an understanding of the disease. Morris' latest project, "Beauty Bared" is a series of portraits of vibrant and courageous women who have undergone treatment for breast cancer. The project was developed both to confront the stigma surrounding breast cancer treatment, as well as to help newly-diagnosed women navigate the often-overwhelming journey through treatment. Her international clientele in-

cluded Roche, Hewlett Packard, and Visa, as well as the Addy Award winning work for Levi Strauss & Co. In addition numerous national publications have featured her editorial photography, including *Interior Design*, *Metropolitan Home*, *Elle*, and *The New Yorker*.

Art Myers

In addition to being a fine art photographer, Art Myers is a physician specializing in preventative medicine and public health. Although largely self-taught in photography, he has studied in workshops with Annie Liebovitz, Arnold Newman, Larry Fink, Sally Mann, and Joyce Tenneson, among others. An award winning and nationally exhibiting artist, Myers draws inspiration from having lost his sister to breast cancer as well as from his wife's subsequent diagnosis with the disease. This series addresses the resilience of a woman's beauty, strength, and femaleness in all of its complexity, even after the transforming experience of breast cancer.

Merideth Bowen Shamszad

Upon turning fifty, Merideth Bowen Shamszad joined a guided process-painting group. Three years later, she was diagnosed with breast cancer. As she went through diagnosis, treatment, and recovery, painting and sharing with the art group became an extraordinary source of support and healing. She sees her paintings during that period as a visual diary of her journey. Many of these works can be viewed in her recently published book, *s*. She believes that life-threatening illness strips away pretense and falseness, leaving the heart open to what is true and real in one's life. Shamszad views creativity as a vehicle to share universal truths and to open one's heart to healing.

Ana Smulian

"I read in the newspaper that a local doctor/researcher had stated that since seven out of eight women don't get breast cancer, it's a rare disease! Creating this piece helped me deal with the rage I felt about this man's words. The figures, though similar, are different—as each of us is different. The eighth piece is torn apart, signifying what happens when you find out that you have breast cancer. The tearing apart of yourself, along with your loved ones, is visiting hell and coming back alive—at least for now. On the eighth figure, an X marks the spot where cancer was detected; the inside is painted red, signifying the blood and pain following diagnosis. A fragmented mirror reflects that this one woman out of eight can be any one of us."



"Seven Out of Eight Don't",
Ana Smulian

Friday
September 12, 2003

Nonprofit groups from around California will share practical knowledge about what you can do to confront breast cancer in your community.

American Cancer Society

Black Women for Wellness

Breast Cancer Action

Breast Friends—MemorialCare Breast Center at Long Beach

Breast Health Access for Women With Disabilities (BHAWD)
Alta Bates Summit Medical Center Rehabilitation Department

California Breast Cancer Organizations, CABCO

California Department of Health Services—Cancer Detection Section

California Health Collaborative

Cancer Detection Program Every Woman Counts
Statewide Consumer 800 number

National Cancer Institute's Cancer Information Service

Cancer Information Service—California Region

Charlotte Maxwell Complementary Clinic

Desert Sierra Partnership: Promoting Breast and Cervical Health

Guam Communications Network

Health Education Council

Hoag Cancer Center

MemorialCare Breast Center—Orange Coast Memorial

Merced **C**ounty **B**reast **C**ancer **P**roject

Orange **C**ounty **A**sian and **P**acific **I**slander **C**ommunity **A**lliance

Orange **C**ounty **C**ancer **D**etection **P**artnership

Raging **L**ight **P**roject

Scripps **P**olster **B**reast **C**ancer **C**enter

Sister's **N**etwork—San Francisco Chapter

WIN **A**gainst **B**reast **C**ancer

Women of **E**ssence

Y-Me—San Diego

YWCA **E**ncore **P**lus—Orange County

Special Research Programs:

California **B**reast **C**ancer **R**esearch **P**rogram (**CBCRP**)

Tobacco-**R**elated **D**isease **R**esearch **P**rogram (**TRDRP**)

Universitywide **A**IDS **R**esearch **P**rogram (**UARP**)

MEET THE EXPERTS BREAKFAST SESSION

Saturday
September 13, 2003

7:15am–8:00am
▶ Ballroom 20B-D

Symposium attendees will be able to join highly interactive discussions about breast cancer topics that have implications for performing research and living with the disease. Informal small group discussions will be led by experts in the field.

Bradley Arrick, M.D., Ph.D.

Risk Assessment and Genetic Testing for Breast Cancer

Bradley Arrick is the Medical Director of the Familial Cancer Program at the Norris Cotton Cancer Center, Dartmouth Hitchcock Medical Center, and a practicing breast cancer oncologist. One of his research interests is the function of the breast cancer ovarian susceptibility gene, BRCA1. He will lead a discussion on the opportunities and pitfalls in genetic testing and in determining breast cancer risk.

Barbara Brenner

Making Your Voice Heard—Breast Cancer Advocacy

Barbara Brenner has been an activist since her diagnosis of breast cancer at 41. She is the Executive Director of Breast Cancer Action, a national education and advocacy organization committed to carrying “the voices of people affected by breast cancer to inspire and compel the changes necessary to end the breast cancer epidemic.” Ms. Brenner will lead a discussion about how advocacy can inform research and turn issues of concern to the communities into political action.

Beverley Burns, M.S., L.Ac.

Approaches for Researching Alternative Medicines

Beverly Burns is a practitioner of TCM (traditional Chinese medicine) and co-founded the Charlotte Maxwell Complementary Clinic, which provides services to low income women. She is also part of a multidisciplinary team performing breast cancer research at UCSF Cancer Center. She will lead a discussion about alternative medicines and how they can be realistically analyzed for effectiveness.

Catherine Carpenter, Ph.D.

Exercise and Breast Cancer

Catherine Carpenter is an Assistant Professor of Medicine at the University of California, Los Angeles, who co-authored a pivotal paper about the influence of exercise and body weight on the development of breast cancer. She will lead a discussion on the scientific basis and practical issues of using exercise to reduce breast cancer risk.

Mhel Kavanaugh-Lynch, M.D., M.P.H.

CBCRP, The Next Decade

Mhel Kavanaugh-Lynch has been the director of CBCRP for eight years. She will be available to discuss the current goals and the future directions of CBCRP in the next decade, or any other issues you bring to her.

MEET THE EXPERTS BREAKFAST SESSION

Saturday
September 13, 2003

Malcolm Pike, Ph.D.

Hormones and Breast Cancer

Malcolm Pike is a professor at the University of Southern California. He has researched the regulation of hormones and their relationship to the development and prevention of breast cancer. He will lead a discussion of the influence of hormones produced by and introduced into the body on breast cancer cause and risk reduction.

Hope Rugo, M.D.

Current Breast Cancer Clinical Trials

Hope Rugo is a practicing breast cancer oncologist and clinical researcher at the University of California, San Francisco. Dr. Rugo is the principal investigator of several regional and national clinical trials focusing on using novel agents, combinations of agents, or vaccines to treat advanced breast cancer. She will lead a discussion on the promising clinical trials that are being undertaken to combat the disease.

Anne Wallace, M.D.

Clinical Trial Recruitment—the National Surgical Breast and Prevention Trial

Anne Wallace is the director of UCSD Cancer Center's Breast Care Unit. She is a practicing breast cancer surgeon and a principal investigator on the National Surgical Breast and Prevention trial (NSABP), which among other accomplishments led to the establishment of lumpectomy plus radiation over radical mastectomy as the standard surgical treatment for breast cancer. She will lead a discussion on the experience of the NSABP and issues involved in clinical trial recruitment.

WELCOME

Saturday
September 13, 2003

8:15am–8:30am
▶ Ballroom 20A

Mistress of Ceremonies:

Holly J. Mitchell, CEO
Crystal Stairs, Inc.

Speakers

Mhel Kavanaugh-Lynch, M.D., M.P.H.
Director, California Breast Cancer Research Program

Anna M. Wu, Ph.D.
University of California, Los Angeles, and California Breast Cancer Research Council Chair (2002-2003)



Holly J. Mitchell, CEO

Crystal Stairs, Inc.

Holly Mitchell is the Chief Executive Officer (CEO) of Crystal Stairs, the largest private nonprofit child care development agency in California. In her previous role as Crystal Stairs' Vice President of External Affairs, Ms. Mitchell contributed to the growth and community leadership of the agency. She created a fund development plan resulting in the most lucrative fund raising year in Crystal Stairs' history. Her team has championed a public agenda that has significantly increased Crystal Stairs' profile among government agencies, local media, as well as other community-based organizations.

In addition to her duties at Crystal Stairs, Ms. Mitchell is active in other child care and human services related organizations. These include her roles on the Public Policy Committees of the Los Angeles County Child Care Alliance and the California Resource and Referral Network, the Welfare Reauthorization Task Force of the National Association of Child Care Resource & Referral Agencies (NACCRA), the Advisory Board and Children's Health Sub-committee of the State Department of Health Services' California Health Information Survey (CHIS), and as a Board Member for the Insure the Uninsured Project (ITUP). Ms. Mitchell has served on numerous boards and committees, including the Governor's Women's Health Advisory Council and California Breast Cancer Research Council.

Ms. Mitchell's public advocacy career began in the office of State Senator Diane Watson, where she advised members of the legislature on issues related to quality child care as the senior policy analyst for the Senate Health and Human Services Committee. Before joining Crystal Stairs, Ms. Mitchell was a Legislative Advocate for the Western Center on Law and Poverty where she coordinated with other advocates on health policy issues affecting low-income communities. Prior to this, she was the Executive Director of the California Black Women's Health Project where she interfaced with community-based agencies, policy makers, government agencies, grant makers, and health care professionals on current trends and data on the status of women's health.

A graduate of the University of California, Riverside, and the Coro Foundation's Public Affairs Fellowship, Ms. Mitchell is the proud mother of 3-year old Ryan.

PLENARY SESSION: ENVIRONMENT AND BREAST CANCER PREVENTION

Saturday
September 13, 2003

8:30am–10:30am

▶ Ballroom 20A

What do we know so far about the environmental causes of breast cancer and what questions need to be asked and answered to finally settle the question? Our panel will not only discuss the difficulties inherent in researching the environmental causes of breast cancer and in translating what we do know into rational public policy, but will also discuss the steps needed to overcome these difficulties. These distinguished leaders in the field have both theoretical and hands-on experience, and our hope is that this discussion will result in an outline for action in the laboratory, in the field, and in our own lives.

Moderator:

M. Ellen Mahoney, M.D, F.A.C.S.

California Breast Cancer Research Council

Panelists:

Julia Brody, Ph.D.

Executive Director, Silent Spring Institute & Principal Investigator, Cape Cod Breast Cancer and Environment Study

Marion Moses, M.D.

Director, Pesticide Education Center

John Peterson Myers, Ph.D.

United Nations Foundation and Commonwealth

Peggy Reynolds, Ph.D.

California Department of Health Services

PLENARY SESSION SPEAKERS

Saturday
September 13, 2003



Julia G. Brody, PhD.

Dr. Julia G. Brody is executive director of Silent Spring Institute, a scientific research organization dedicated to studying the links between the environment and women's health, especially breast cancer. She is the principal investigator of the Cape Cod Breast Cancer and Environment Study, now in its ninth year. The Cape Cod Study is investigating exposures to endocrine disruptors and mammary carcinogens from air and water pollutants and common products such as pesticides, detergents, and plastics. Innovative methods include testing for 86 chemicals in women's homes and historical exposure mapping using a geographic information system. Collaborating investigators include researchers at Boston University, Harvard, Tufts, and the US Centers for Disease Control and Prevention. US EPA recognized Silent Spring Institute's research with an Environmental Merit Award 2000. Dr. Brody presented one of the Distinguished Lectures in Occupational and Environmental Cancer at the National Cancer Institute last year and has taught and lectured at the University of Texas at Austin, Tufts University, Harvard University, MIT, Boston University, and elsewhere. She serves on scientific advisory committees for the National Breast Cancer Coalition, Breast Cancer Action, The Breast Cancer Fund, Marin County Health Department, and others. She has conducted environmental health studies in a context of active community involvement on issues of deep public concern for several states, federal agencies, and the World Bank. She served in senior environmental policy positions as Deputy Commissioner of the Massachusetts Department of Environmental Management and earlier at the Texas Department of Agriculture.

environmental Cancer at the National Cancer Institute last year and has taught and lectured at the University of Texas at Austin, Tufts University, Harvard University, MIT, Boston University, and elsewhere. She serves on scientific advisory committees for the National Breast Cancer Coalition, Breast Cancer Action, The Breast Cancer Fund, Marin County Health Department, and others. She has conducted environmental health studies in a context of active community involvement on issues of deep public concern for several states, federal agencies, and the World Bank. She served in senior environmental policy positions as Deputy Commissioner of the Massachusetts Department of Environmental Management and earlier at the Texas Department of Agriculture.



M. Ellen Mahoney, M.D., F.A.C.S.

M. Ellen Mahoney is a practicing breast surgeon in Arcata and Clinical Assistant Professor of Surgery at Stanford. She is the co-founder of the Community Breast Health Project in Palo Alto. Her work there resulted in extensive knowledge of current breast cancer literature and of the questions and problems faced by patients and families. She has used this knowledge to support other nonprofit breast cancer organizations, including the Breast Cancer Fund and the Humboldt Community Breast Health Project. She helps Susan Love M.D. in the maintenance of the Personal Guidance service on www.susanlovemd.com. Her goal is that all patients have the latest concepts and knowledge available in language they can understand. She describes herself as "passionate about the need to improve our knowledge about breast cancer and our

care of all whose lives are affected by this disease."

PLENARY SESSION SPEAKERS

Saturday
September 13, 2003



Marion Moses, M.D.

Marion Moses is a physician board certified in Public Health and Preventive Medicine (Occupational Medicine). She is director of the Pesticide Education Center in San Francisco, founded in 1988 to educate workers, consumers, and the public about the hazards and health effects of pesticides.

Her interest in pesticides began with her work with Cesar Chavez and the United Farm Workers union, beginning in 1966, first as a nurse and then as a doctor. She was Cesar Chavez' personal physician.

She has served on many government committees and task forces, and is a contributing editor to the American Journal of Industrial Medicine and the Archives of Environmental Health, and has held past university appointments. She is the author of "Designer Poisons, How to Protect Your Health and Home from Toxic Pesticides" for the general public and "Harvest of Sorrow", videos and training manuals for farm workers.

John Peterson Myers, Ph.D.

With a doctorate in the biological sciences from the University of California, Berkeley, Pete Myers is Senior Advisory to Commonwealth on environmental threats to children's health and to the United Nations Foundation and the Turner Foundations for their programs in energy, national security, and the environment. From 1990 through the end of 2001, Myers served as Director of the W. Alton Jones Foundation in Charlottesville, Virginia, guiding the foundation's philanthropic support of work to reduce the risks of nuclear war and protect the global environment. Prior posts include Senior Vice President for Science at the National Audubon Society in New York and research scientist at the Academy of Natural Sciences of Philadelphia. Along with co-authors Dr. Theo Colborn and Dianne Dumanoski, he wrote *Our Stolen Future*, a book (1996) that explores the scientific basis of concern for how contamination threatens fetal development. Myers now writes, edits and publishes a companion Web site for their book, www.OurStolenFuture.org, which tracks changes in science and policy that have followed the book's publication.

Dr. Myers has served on the boards of the Consultative Group for Biological Diversity (Chairman 1995-1997), a consortium of 40-plus foundations working to enhance the maintenance of biological systems and their contributions to human prosperity, and the National Audubon Society (1991-1995). In 1992 he was appointed by the Governor of Virginia to a 4-year term on the Virginia Pesticide Control Board. Currently he is on the board of the Hubbard Brook Research Foundation and the National Environmental Trust.

PLENARY SESSION SPEAKERS

Saturday
September 13, 2003



Peggy Reynolds, Ph.D.

Peggy Reynolds is a cancer epidemiologist in the California Department of Health Services' Environmental Health Investigations Branch, and currently serves as the chief of the Environmental Epidemiology Section. She received her Ph.D. in Epidemiology from the University of California, Berkeley, and spent several years as an epidemiologist for the California Tumor Registry and San Francisco Bay Area SEER (Surveillance, Epidemiology and End Results) program. She has conducted a number of cancer epidemiology studies, with a particular focus on environmental risk factors. Her research is currently focused on female breast cancer and on cancers in children. Dr. Reynolds has served as the principal investigator for a study of regional variations in breast cancer in California, a study of body burden levels of endocrine disruptors in breast cancer patients, a study of breast cancer incidence

in flight attendants, and a statewide study of patterns of childhood cancer.

Breast Cancer Control in California: Progress through Collaboration, Public Health Practice, and Research (11:00am–12:30pm)

▶ **Room 33**

The historical evolution and development of the California Breast Cancer Early Detection program will be described, as will the program components of the California public health approach to breast cancer control. A list of achievements in breast cancer control in California over the past 10 years and future directions in California breast cancer control will be discussed in order to increase awareness among researchers about breast cancer control and facilitate connections between researchers and practitioners.

Moderator:

Debra Oto-Kent, M.P.H.
Health Education Council

Speakers

Barbara Friedman
Author, California Breast Cancer Act

Georjean Stoodt, M.D., M.P.H.
California Department of Health Services

Carol Somkin, Ph.D.
Kaiser Permanente Division of Research

Henry Etta Waters, R.N., P.H.N., M.N.
Vice Chair, California Breast and Cervical Cancer Advisory Council

**Emerging Topics in Breast Cancer Biology
(11:00am–12:30pm)**▶ **Room 31**

Improved analysis of how cells behave has uncovered a mosaic of interactions between different cell types and genetic pathways that has expanded our understanding of the roots of breast cancer development. The session will describe the new paradigms researchers are investigating to learn how breast cancer cells are controlled by their environment, how proteins regulate tumor growth, and the role of DNA damage and repair in breast cancer.

Moderators:

Mina Bissell, Ph.D.
Lawrence Berkeley National Laboratory

Barbara Parker
Breast Cancer Coalition of North Carolina

Speakers

Breast Stromal Genes Act as Early Markers of Malignancy
Thea Tlsty, Ph.D.
University of California, San Francisco

Protein Profiles in Breast Cancer—Why are They Important?
Benjamin Cravatt, Ph.D.
The Scripps Research Institute

How Does DNA Damage Influence Breast Cancer?
James Ford, M.D.
Stanford University

KEYNOTE LUNCH

Saturday
September 13, 2003

**Ten-Year Anniversary Celebration—A Decade of Progress
(12:30am–2:00pm)
▶ Ballroom 20B-D**

Mistress of Ceremonies:

Holly J. Mitchell
CEO, Crystal Stairs, Inc.

Achievement Award:

Barbara Friedman
Author of the Breast Cancer Act
Presented by Charles L. Gruder, Ph.D., Executive Director of Special Research Programs

Catherine Quinn
Executive Director, California Health Collaborative
Presented by Mhel Kavanaugh-Lynch, M.D., M.P.H., Director, California Breast Cancer Research Program

Cornelius L. Hopper Poster Award Presentations:

Cornelius L. Hopper, M.D.

Mhel Kavanaugh-Lynch, M.D., M.P.H.
Director, California Breast Cancer Research Program

Keynote Address:

After the Cancer Dance—The Leadership Path Against Breast Cancer
Sarah Weddington, J.D.
The Weddington Center

KEYNOTE LUNCH

Saturday
September 13, 2003



Sarah Weddington, J.D.

Sarah Weddington is a nationally-known attorney and spokesperson on public issues and leadership, and has been a long-time advocate for women. In 1972, she became the first woman elected from Austin, the state capital, to the Texas House of Representatives. Ms. Weddington served three terms during which she helped reform Texas rape statutes, passed an equal credit bill for women, passed a pregnancy leave bill for teachers, and led successful efforts to block all anti-abortion legislation. She was also instrumental in changing Texas law to provide equal consideration for mothers and fathers in custody disputes.

From 1978 to 1981, she served as Assistant to the President of the United States. While working with President Jimmy Carter, she assisted in the selection of women for federal judiciary and other top federal appointments, co-chaired the 1980 U.S. delegation to the United Nations Mid-Decade Conference on Women in Copenhagen, and established other programs to ensure the equal treatment of women in the military in securing business loans and in social programs. In her first book, *A Question of Choice*, she detailed the landmark *Roe vs. Wade* case, which she successfully argued before the United States Supreme Court in 1973. She is thought to be the youngest person ever to win a case in the U.S. Supreme Court. Ms. Weddington is particularly well known for her work on issues affecting women and through her many roles, including attorney, legislator, Presidential assistant, professor, and expert called upon by the national media, and has received numerous honors and awards.

Dr. Weddington is a recent breast cancer survivor and is active in raising awareness and funds for groups fighting cancer.



Barbara Friedman

Assembly Member Barbara Freedman was elected to the California Assembly in a special election on July 31, 1991, and left office in 1996 as a result of term limits. During her three terms in the Assembly, Ms. Friedman targeted her legislative efforts to remedy issues impacting the health and well-being of women and children. As the author of the legislation that created and funded both the California Breast Cancer Research Program and California Detection Program-Every Woman Counts, she led the advocacy efforts that established the most far-reaching breast cancer programs ever launched by a state. After leaving the legislature, Ms. Friedman directed the Community Benefits Department of L.A. Care Health Plan, a public sector plan that arranges health care services for low-income families. She is currently the Executive Director of the Children's Burn Foundation. Barbara Friedman

has a long history of community and public service. Prior to her election, she served as a Chief Deputy to Los Angeles City Controller Rick Tuttle and worked as a senior aide for Assembly Member Burt Margolin. Ms. Friedman graduated from the University of California, Berkeley, where she earned her Bachelor of Arts degree in history. Her daughter, Annie, is ten years old.

Saturday
September 13, 2003

New Treatment Strategies (2:00pm–3:30pm)

▶ **Room 33**

The ultimate goal in treating cancer is to develop therapies that are more effective, cancer specific, and less toxic. This session will describe several approaches for improving breast cancer therapy such as identifying targets that can be used to sensitize tumors to chemotherapy or cut off their blood supply as well as ways to incorporate alternative medicine into the cache of breast cancer treatments.

Moderators:

Bradley Arrick, M.D., Ph.D.
Dartmouth Medical School

Selma Morris, M.Ed.
Breast Health Initiative

Speakers

Refining Chemotherapeutic Drugs

John Reed, M.D., Ph.D.
The Burnham Institute

Targeting Breast Cancer Blood Vessels

Jan Schnitzer, M.D.
The Sydney Kimmel Cancer Center

Alternative Therapies for Breast Cancer

Hope Rugo, M.D.
University of California, San Francisco

**Diet and Breast Cancer
(2:00pm–3:30pm)**▶ **Room 31**

The link between diet and breast cancer has been under investigation for many years. The presentations in this session will examine the extent of the role of diet in cancer development and modulating estrogen levels. It will also explore approaches to developing components of the diet into agents to reduce breast cancer risk.

Moderators:

Jerianne Heimendinger, Sc.D., M.P.H., R.D.
AMC Cancer Research Center

Barbara Andreozzi
American Cancer Society

Speakers

Fiber, Estrogen and Breast Cancer
Malcolm Pike, Ph.D.
University of Southern California

Role of Body Size and Fats in Breast Cancer
Catherine Carpenter, Ph.D.
University of California, Los Angeles

Breast Cancer Prevention with Phytoestrogens in Grape Juice
Shuian Chen, Ph.D.
Beckman Research Institute

*Are you uncomfortable
or unfamiliar with
poster presentations of
scientific research?*

If so, Advocate Guides have come from across the state and around the country to help. All of the Advocate Guides at the "From Research to Action Symposium—A Decade of Progress" have reviewed grant applications for CBCRP and other organizations and are able to bridge the language barrier between scientists and the general public.

Advocate Guides will:

- lead you through the poster sessions
- orient you to the concept of poster displays of scientific projects
- facilitate discussions between poster presenters and poster viewers

CBCRP Poster Viewing Sessions

▶ Ballroom 20B-D

CBCRP investigators will display their research results in the form of posters. Posters will be available for viewing all day, but will be attended by researchers from 3:30-5:30. Advocate guides will be available during this session to lead groups through the posters and to facilitate discussions between scientists and audience.

CBCRP investigators will attend their posters at the following viewing times:

3:30pm–4:30pm	Sessions A, B, C
4:30pm–5:30pm	Sessions D, E, F

Saturday
September 13, 2003

Tumor Environment, Invasion, and Metastasis (3:30pm–4:30pm)

▶ **Ballroom 20B-D**

A-01

The Impact of Irradiated Stroma on The Tumorigenic Potential Of Tp53 Null Mammary Outgrowths

Mary Helen Barcellos-Hoff
Lawrence Berkeley National Laboratory, Berkeley

A-03

β -arrestin-dependent Sequestration of MAPK to Leading Edge of Polarized Cells is Involved in Protease-Activated Receptor-2 Induced Chemotaxis

Kathryn DeFea
University of California, Riverside

A-04

Importance of the Id-1/Id-2 Ratio in Normal and Cancerous Breast Cells

Pierre Yves Desprez
California Pacific Medical Center, San Francisco

A-05

Matrix Metalloproteinases in Mouse Mammary Carcinoma

Mikala Egeblad
Department of Anatomy, University of California, San Francisco

A-06

Reduced Breast Cancer Metastasis by Dietary Conjugated Linoleic Acid

Kent L. Erickson
University of California, Davis

A-07

The Development of E-cadherin Mutants to Examine Matrix-Metalloproteinase-Mediated Epithelial-to-Mesenchymal Transition in Mammary Epithelial Cells

Jimmie E. Fata
Lawrence Berkeley National Laboratory, Berkeley

A-08

FKBP Genes Possess Anti-Tumor Functions Against Breast Cancer

Robert Debs
California Pacific Medical Center
Poster Presenter: Sylvia Y. Fong

A-09

Activity Based Protein Profiling of Active Metalloproteases in Breast Cancer

Arul Joseph
The Scripps Research Institute, La Jolla

A-10

Effects of Aging Stroma on Breast Tumorigenesis

Ana Krtolica
Lawrence Berkeley National Laboratory, Berkeley

A-11

Novel Extracellular Heparin-Degrading Endosulfatases and Breast Cancer

Steven D. Rosen
Department of Anatomy, University of California, San Francisco

A-12

Effect of Extracellular Matrix Signaling on Double-Strand Break Repair

Aylin Rizki
Lawrence Berkeley National Laboratory, Berkeley

A-13

Clotting Breast Cancer

Michael Samoszuk
University of California, Irvine

A-14

Proteomic Mapping, Targeting, and Imaging of the Breast Tumor Neovasculature and its Caveolae

Jan E. Schnitzer
Sidney Kimmel Cancer Center, San Diego

AA-1

HOX Transcriptional Regulation of Angiogenesis

Aubri Charboneau, Ph.D.
University of California, San Francisco

AA-2

The Function and Regulation of Epimorphin in Mammary Gland Development

Jamie L. Bascom
Lawrence Berkeley National Laboratory

AA-3

The Lymphovascular Tumor Embolus—The Story of the Ship in the Bottle

Sanford H. Barsky
Department of Pathology, UCLA School of Medicine, Los Angeles

AA-4

Effects of Breast Cancer Apoptosis-Inducing Agents on Blood Vessel Cells

Marcia I. Dawson
The Burnham Institute, La Jolla

Saturday
September 13, 2003

Gene Regulation and Targeted Therapies (3:30pm–4:30pm)

► Ballroom 20B-D

B-01

End Sequence Profiling (ESP): A Sequence-Based Approach to Structural Analysis of Tumor Genomes

Colin Collins
UCSF Comprehensive Cancer Center,
San Francisco

B-02

Enhanced HER2-Directed Liposomal Therapeutics

Daryl C. Drummond
California Pacific Medical Center Research Institute,
San Francisco

B-03

IGF-1 Receptor Inhibitors in the Treatment of Breast Cancer

Jack Youngren
University of California, San Francisco
Poster Presenter: Karissa Gable

B-04

Tumor Suppression by a p14ARF/p53 Bicistronic Adenovirus

Ruth A. Gjerset
Sidney Kimmel Cancer Center, San Diego

B-05

Roles of BRCA2 in Homologous Recombinational Repair

Yi-Ching Lio
Lawrence Berkeley National Laboratory, Berkeley

B-06

A New Genetic Vaccine Therapy for Breast Cancer

Edward L. Nelson
University of California, Irvine

B-07

Whole Gland Analysis of Cancer Initiation and Progression in the Mouse Mammary Gland

Carlos Ortiz de Solorzano
Lawrence Berkeley National Laboratory, Berkeley

B-08

Locating Novel Breast Cancer Genes using DNA Microarrays

Jonathan Pollack
Stanford University School of Medicine, Palo Alto

B-09

Modulation of MKP-1 in Response to Chemotherapeutic Agents

Clifford G. Tepper
University of California, Sacramento

B-10

Functional Characterization of the ZNF217 Oncogene Amplified and Overexpressed in Human Breast Cancers

Paul Yaswen
Lawrence Berkeley National Laboratory, Berkeley

B-11

Characterization of ATR's DNA Binding Activity

Dawn Yean
Stanford University, Palo Alto

B-12

Regulation of EGFR Signaling Through Alternative Splicing

Cheryl Van Buskirk
California Institute of Technology, Pasadena

BB-1

Molecular Study of BAG Domains: A New Motif in Breast Cancer

Klara Briknarova
The Burnham Institute, La Jolla

BB-2

IKK α and Breast Cancer

Michael Karin
Yixue Cao
University of California, San Diego

BB-3

Structural Studies of the Bcl2 Family Proteins in Lipid Environments

Francesca M. Marassi
The Burnham Institute, La Jolla
Poster presenter :
Jungyuen Choi

BB-4

Regulation of the Checkpoint Proteins Rad1 and Hus1 in Response to DNA Damage

Patrick Lupardus
Stanford University, Palo Alto

BB-5

BRCA1-dependent Ubiquitin Ligase Activity in Breast Cancer

Yan Xia
The Salk Institute for Biological Studies, San Diego

Saturday
September 13, 2003

Breast Cancer Detection and Treatment (3:30pm–4:30pm)

▶ **Ballroom 20B-D**

C-01

What Do Young Patients Want to Know About the Ovarian Toxicity of Chemotherapy?

Lucy Berlin
Young Moms with Breast Cancer, San Jose
Lynn Westphal
Stanford University, Palo Alto
Hope Rugo
University of California, San Francisco

C-02

Mechanisms of Radiation-Induced Fatigue

Julienne E. Bower
University of California, Los Angeles

C-03

Protein Markers in Nipple Aspirates for Cancer Detection

Helena Chang
University of California, Los Angeles

C-04

Herba Scutellaria Barbatae for Metastatic Breast Cancer (MBC)

Hope Rugo
University of California, San Francisco

C-06

Patient-Individualized Chemotherapy in Breast Cancer

Daniel H. Silverman
University of California, Los Angeles
Poster Presenter:
Amanda L. Kesner

C-07

Prospective Evaluation of Cognitive Effects of Adjuvant Chemotherapy in Patients with Breast Cancer

Rebecca Rausch
University of California, Los Angeles

C-08

Combining Patient and Research Priorities: Lessons Learned in a Community Research Collaboration Design of a Clinical Trial

Hope S. Rugo
University of California, San Francisco
Lucy Berlin
Young Moms with Breast Cancer, San Jose

C-09

Clinical Utility of Breast Cancer DNA Markers in Serum and Bone Marrow Aspirates

Dave S.B. Hoon
John Wayne Cancer Institute, Santa Monica
Poster Presenter:
Bret Taback

C-10

New Imager to Improve Specificity in Breast Cancer Detection

Kai Vetter
Christine Hartmann-Siantar
Lawrence Livermore National Laboratory
Gerald DeNardo
University of California, Davis

C-11

Selective Targeting of Breast Cancer with Radioiodide in Nude Mice

Irene Wapnir
Stanford University, Palo Alto

C-12

2D Correlated MR Spectroscopy and Multivariate Analysis of Breast Cancer

M. Albert Thomas
Nathaniel Wyckoff
University of California, Los Angeles

CC-1

Breast CT: System Design and Evaluation

John M. Boone
Karen K. Lindfors
University of California, Davis

CC-2

Biologic Strategies to Enhance Adjuvant Therapy for HER-2-Overexpressing Breast Cancers

Richard J. Pietras
University of California, Los Angeles
Poster Presenter:
Hsiao-Wang Chen

CC-3

Early Detection of Breast Cancer and Its Recurrence

Syed Ashraf Imam
Huntington Medical Research Institute, Pasadena
Poster Presenter:
B. Saha

Saturday
September 13, 2003

Cancer Detection Program—Every Woman Counts (3:30pm–4:30pm)

▶ **Ballroom 20B-D**

The scientific posters to be displayed will highlight California cancer control framework and depict components of a comprehensive breast cancer control program in order to encourage collaboration among practitioners and researchers. The presenters will attend their poster from 3:30–4:30pm.

Coalitions and Partnerships

CDS-C1

Using a Culturally Competent Framework to Increase Annual Breast Cancer Screening Rates Among Low-Income Latinas: A Case Study of the Orange County Detection Partnership

Raúl A. Sobero

Gloria P. Giraldo

Orange County Cancer Detection Partnership

Quality Assurance and Improvement

CDS-Q1

Using Medical Record Abstraction Data to Identify Quality Assurance Issues and Develop Professional Education Strategies

Robert Benroth

Lynnette Ryan

San Diego State University

Public Education & Outreach

Screening, Tracking, Follow-up, and Case Management

CDS-S1

Case Management to Improve Adherence for Abnormal Cancer Screen Follow-up: Project SAFE (Screening Adherence Follow-up)

Kathleen Ell

University of Southern California, Los Angeles

Betsy Vourlekis

University of Maryland

CDS-P1

Healthy Lifestyles and Low-Income Latinas: Developing a Culturally Appropriate, Clinic-Based Health Education Program

Gale D. Spears

Health Education Council

Poster Presenter:

Nina L. Cossy

CDS-P2

Cancer Detection Programs: Every Woman Counts Tell A Friend Implementation-1999-2002

Mary Strobe

California Department of Health Services, Cancer Detection Section

CDS-S2

Mammography Adherence Among Ethnically Diverse, Low-Income Women: Individual, Clinician, and Health Care System Factors

Regina Otero-Sabogal

Jacqueline M. Golding

Desi Owens

University of California, San Francisco

CDS-P3

Healthy Lifestyle Curriculum in Reducing the Risk for Breast Cancer

Malati Chenik

Cancer Detection Section Program: Every Woman Counts

Surveillance & Evaluation

CDS-SE1

A Method to Estimate the Low-Income, Uninsured/Underinsured Population Eligible for Cancer Detection Section's Program Services in California Counties

Kirsten Knutson

California Department of Health Services, Cancer Detection Section

CDS-SE2

Evaluation of Cancer Detection Section's 800 Number in California

Farzaneh Tabnak

California Department of Health Services, Cancer Detection Section

CDS-SE3

Predictors of Timely Follow-up of Abnormal Breast Cancer Screening Results in Medically Underserved California Women

Farzaneh Tabnak

California Department of Health Services

Hans-Georg Müller

University of California, Davis

CDS-SE4

How Can the Concept "Underinsured" be Translated to Available Data in Order to Best Estimate the Underinsured Population Eligible for Public Health Program Services?

Kirsten Knutson

California Department of Health Services, Cancer Detection Section

Poster Presenter:

Weihong Zhang

Saturday
September 13, 2003

Breast Cancer Risk and Incidence (4:30pm-5:30pm)

▶ **Ballroom 20B-D**

D-01

Chronic Respiratory Illness during Pregnancy and Risk of Maternal Breast Cancer

Barbara A. Cohn
Public Health Institute, Berkeley
Poster Presenter:
Piera M. Cirillo

D-02

Can Placental Factors Explain Race Patterns of Breast Cancer?

Barbara A. Cohn
Public Health Institute, Berkeley

D-03

The Role of Community Risk Factors and Resources on Breast Cancer Outcomes

Pamela L. Davidson
Roshan Bastani
University of California, Los Angeles
Poster Presenters:
Terry Nakazono
Daisy Carreon

D-04

Quantifying Breast Composition for Breast Cancer Risk using X-ray Absorptiometry

John A. Shepherd
University of California, San Francisco
Poster Presenter:
Lionel Herve

D-05

Dietary Fat, Fat Metabolizing Genes and Breast Cancer Risk

Sue Ann Ingles
University of Southern California
Poster Presenter:
Jun Wang

D-06

Breast Cancer Screening in Hmong Women Pre and Post Intervention Study

Marjorie Kagawa Singer
UCLA - School of Public Health and Asian American Studies, Los Angeles
Mary Anne Foo
Orange County Asian and Pacific Islander Community Alliance

D-07

Polymorphism in the Androgen Receptor and Mammographic Density

Elizabeth Lillie
University of Southern California, Los Angeles

D-08

Regression Analysis of Pesticide Use Data and Breast Cancer Incidence in California Latinas

Paul K. Mills
Cancer Registry of Central California, Fresno
University of California Fresno Medical Education Program, San Francisco

D-09

Molecular Marker Expression, Adjuvant Therapy and Breast Cancer Mortality

Michael Press
University of Southern California, Los Angeles
Shelley M. Enger
Kaiser Permanente Southern California, Pasadena

D-10

The Higher Expressing MPO Genotype Is Associated With Reduced Tumor Size and Less Lymph Node Involvement in Breast Cancer

Wanda F. Reynolds
Sidney Kimmel Cancer Center, San Diego

D-11

Breast Cancer Risk Factors in a High Risk Population

Georgiana Farren
Marin Breast Cancer Watch, San Rafael
Margaret Wrench
University of California, San Francisco

D-12

Green Tea, Soy, and Risk of Breast Cancer in Asian Americans

Anna H. Wu
University of Southern California, Los Angeles

D-13

Genetic and Environmental Modifiers of Risk to Breast Cancer

Argyrios Ziogas
University of California, Irvine

DD-1

Regional Variations in Breast Cancer Incidence among Members of the California Teachers Study Cohort

Peggy Reynolds
California Department of Health Services, Oakland

Saturday
September 13, 2003

Cell Growth Regulation and Drug Development (4:30pm–5:30pm)

▶ Ballroom 20B-D

E-01

Apoptosis of Breast Cancer Cells by Combination of Retinoids and Chemotherapeutic Agents

Nathalie Bruey-Sedano
The Burnham Institute, La Jolla

E-02

In Vivo Effects of Chinese Herbal Extracts on Breast Cancer

Michael J. Campbell
University of California, San Francisco

E-03

Role of Coactivator ACTR/AIB1 in Breast Cancer Cell Proliferation

Hongwu Chen
University of California Davis Cancer Center, Sacramento
Poster Presenter:
Maggie C. Louie

E-04

Dietary Indole Effect on Estrogen Urinary Metabolites

Kathie Dalessandri
Stanford University, Palo Alto
Gary Firestone
Leonard Bjeldanes
University of California, Berkeley

E-05

SR13668: A Promising Dietary Indole Analog for Breast Cancer Therapy

Ling Jong
SRI International, Menlo Park

E-06

Conjugated Linoleic Acid can Alter Proliferation of Mammary Tumor Cells Independent of Eicosanoid Metabolites

Kent L. Erickson
University of California, Davis
Poster Presenter:
Jung-Hyun Kim

E-07

The Use of *In Vitro* and Animal Models to Study the Consequence of Essiac Tea Exposure on the Mammary Gland

Kristen S. Kulp
Lawrence Livermore National Laboratory, Livermore

E-08

Method of Measuring Breast Epithelial Cell Turnover in Humans

Marc Hellerstein
University of California, Berkeley
Poster Presenter:
Lisa Misell

E-09

Breast Cancer Prevention with Estrogen: Microarray Analysis

Satyabrata Nandi
University of California, Berkeley
Poster Presenter:
Rajkumar Lakshmanaswamy

E-10

Roles of p160 Transcriptional Coactivators in Mammary Gland Development and Tumorigenesis

Zhiyong Wang
The Salk Institute for Biological Studies, San Diego

E-11

The Potential Role of a New LIM Factor, LMO4, in Breast Cancer

Bogi Andersen
University of California, Irvine
Poster Presenter:
Ning Wang

E-12

Growth Inhibitory and Growth Promoting Signals in Breast Epithelial Cells

Cindy A. Wilson
University of California, Los Angeles

E-13

Novel Synthetic Analogs of Green Tea Catechins and their Biological Activity

Nurulain T. Zaveri
SRI International, Menlo Park

E-14

A Novel Approach for Killing Breast Cancer Cells

Xiao-kun Zhang
The Burnham Institute, La Jolla

E-15

Muc4 Modulation of ErbB Receptor Signaling

Colleen Sweeney
University of California, Davis
Poster presenter:
Melanie Funes-Duran

EE-1

Indene Ligands as Novel Probes of Estrogen Receptor Signaling

Nicola J Clegg
University of California, San Francisco

EE-2

Bcar1/Cas and Tamoxifen Resistance in Breast Cancer

Kathryn R. Ely
The Burnham Institute, La Jolla

EE-3

Cellular Events Mediating Mammary Tumor Suppression by Orlistat, a Fatty Acid Synthase Inhibitor

Lynn M. Knowles
The Burnham Institute, La Jolla

EE-4

Regulation of SXR and Drug Resistance in Breast Cancer

Jennifer Murray
Beckman Research Institute, City of Hope National Medical Center

Saturday
September 13, 2003

Stress Reduction and Improving Access (4:30pm–5:30pm)

▶ **Ballroom 20B-D**

F-01

Mood in Women Treated for Early Stage Breast Cancer is Associated with Psychological and Physical Symptoms—Not Cancer-Related Variables

Wayne A. Bardwell
University of California-San Diego, Psychiatry

F-02

Cultural Response to Breast Cancer Early Detection Messages

Yewoubdar Beyene
University of California, San Francisco

F-03

Risk Notification for Women at High Risk for Breast Cancer

Susan L. Stewart
Northern California Cancer Center
Joan R. Bloom
University of California, Berkeley
Marion Lee
University of California, San Francisco

F-04

Children's Stress during Mothers' Treatment for Breast Cancer

Dalia G. Ducker
California School of Professional Psychology, Alameda
Ellen G. Levine
California Pacific Medical Center, San Francisco

F-05

Increasing Community Awareness of Clinical Trials: A Collaborative Approach

Patricia Ganz
University of California, Los Angeles
Kathleen Brown
Association of Black Women Physicians, Los Angeles
Poster Presenter:
Melissa Farmer

F-06

Defining Social Support among Spanish-Speaking Women with Breast Abnormalities Suspicious for Cancer

Roshan Bastani
University of California, Los Angeles
Poster Presenter:
Guadalupe Gonzalez

F-07

Alternative Support for Rural and Isolated Women in an HMO

Cheryl Koopman
Stanford University, Palo Alto
Mary Anne Kreshka
Sierra College, Nevada City

F-08

Expressing Negative Emotions in BC Internet Support Groups; Comparing Professional and Lay Led Groups

Morton A Lieberman
University of California, San Francisco
Mitch Golant
The Wellness Community, Santa Monica

F-09

Women's Experiences with Metastatic Breast Cancer—Construction of Meaning and Stress

Jill Mitchell
University of California, Los Angeles

F-10

A Network-Based Intervention for Chamorros in Southern California

Sora Park Tanjasiri
University of California, Irvine
Lola Sablan-Santos
Guam Communications Network, Long Beach
Poster Presenter:
Lourdes Quitugua

F-11

Structure for Breast Cancer Care: A Conceptual Framework

Katherine L. Kahn

University of California, Los Angeles

Poster Presenter:

Diana M. Tisnado

Session Highlights (5:30pm–6:00pm)

▶ **Ballroom 20B-D**

Breakout session moderators will summarize the highlights of their sessions.

Moderator:

Holly J. Mitchell, CEO
Crystal Stairs, Inc.

Sessions:

Breast Cancer Control in California: Progress through Collaboration, Public Health Practice, and Research
Debra Oto-Kent, MPH
Health Education Council

Emerging Topics in Breast Cancer Biology
Mina Bissell, Ph.D.
Lawrence Berkeley National Laboratory

Barbara Parker
Breast Cancer Coalition of North Carolina

New Treatment Strategies
Bradley Arrick, M.D., Ph.D.
Dartmouth Medical School

Selma Morris, M.Ed.
Breast Health Initiative

Diet and Breast Cancer
Jerianne Heimendinger, Sc.D., M.P.H., R.D.
AMC Cancer Research Center

Barbara Andreozzi
American Cancer Society

Ready for a change?

Apply for a **Career Enrichment Award**

from the California Breast Cancer Research Program!

66

Purpose: To support training for established breast cancer clinicians and researchers in a new area or setting.

Grants: Up to one year (start date can be delayed up to one year).

Funding: Full salary support, plus up to \$100,000 for travel, research supplies, and housing.

Awards: May be associated with any of CBCRP's nine priorities:

- Sociocultural, Behavioral and Psychological Issues
- Health Policy and Health Services
- Prevention and Risk Reduction
- Biology of the Normal Breast
- Racial/Ethnic Differences
- Innovative Treatment
- Earlier Detection
- Pathogenesis
- Etiology

For more information, please contact Dr. Katherine McKenzie
katherine.mckenzie@ucop.edu • 1-888-313-BCRP • www.cbcrp.org



Navigating the CBCRP Application Process (9:00am–12pm)

▶ Plaza AB (at the Westin Horton Plaza)

Session Leaders:

Walter Price, Dr.P.H.

Laurence Fitzgerald, Ph.D.

Katherine McKenzie, Ph.D.

In this workshop, we will open up the CBCRP application, review, and funding process to give you a good look inside. Armed with a better understanding of what we are trying to accomplish and the details of how we are trying to accomplish it, you can use your existing skills to maximize your chances of funding success.

The goals of this workshop are to enable workshop participants to:

- 1) gain a better understanding of the 2004 Call for Applications, including our highest research priorities, changes from the previous year, and what the results from the last year might mean for you
- 2) understand how to achieve the best fit between the priority issues and award types we offer and your research knowledge, skills, and experience
- 3) understand the relative importance of CBCRP's scientific and programmatic review criteria
- 4) understand our scientific review process and how this should affect the applications you write (including revised applications)
- 5) understand the programmatic (post-scientific) review process and its importance
- 6) become familiar with how the CBCRP's future Calls might change based on our priority setting process

Specific topics to be covered will include:

- ◆ Our general philosophy: why this matters when you apply
- ◆ Results from the 2003 Application Process
- ◆ The 2004 Call and changes from previous years
- ◆ What we look for in our various award types and priority issues
- ◆ Applications we are eager to fund; also, how to see “what’s out there”
- ◆ Breaking down the scientific review process—how our committees are formed, how we evaluate and score
- ◆ Why our forms (most of them) are not just “hoops to jump through”
- ◆ A history of scientific Do's and Don'ts & other Grantsmanship issues
- ◆ Feedback: the application evaluation (or pink sheet)
- ◆ To revise or not to revise?
- ◆ The programmatic review
- ◆ How to get your money as soon as possible
- ◆ How we set priorities

The session will include handouts, visual presentations, and time for questions and answers with all of our program staff and interaction with other potential and past applicants.

Sunday
September 14, 2003

Community Research Collaboration (9:00am–2:00pm)

▶ **Library—1st Floor (at the Westin Horton Plaza)**

Session Leader:

Marj Plumb

This workshop will bring together Community Research Collaboration (CRC) Award recipients, past and present, as well as those interested in applying for a CRC, to discuss strategies for applying for and conducting community-based participatory research in breast cancer. All interested researchers and community members are encouraged to attend!

- 9:00am–9:15am **Welcome**
Mhel Kavanaugh-Lynch, M.D., M.P.H., *Director, California Breast Cancer Research Program*
- 9:15am–9:30am **CRC Award Application Process**
Marj Plumb, Participatory Research Consultant
- 9:30am–10:30am **Successfully Applying for a CRC Pilot**
Lessons learned in developing partnerships, working together on the Concept Paper and Application, and reviewing and using reviewer feedback.
Lucy Berlin, *Young Moms with Breast Cancer*
Hope Rugo, M.D., *UCSF Medical Center*
Priscilla Banks, *African American Advisory Council*
Carol Somkin, Ph.D., *Kaiser Foundation Research Institute*
- 10:30am–11:00am **From Pilot to Full**
Lessons learned in taking a pilot to a full research project including maintaining partnerships, getting the work done, and finishing the study.
Georgie Farren, M.D., *Marin Breast Cancer Watch*
Margaret Wrensch, Ph.D., *University of California San Francisco*
- 11:00am–11:30am **Impacting Policy**
Using CRC research to impact public and private policies, funding priorities, and/or program development.
Marj Plumb, Participatory Research Consultant
- 11:30am–12:00pm **Q & A**
- 12:00pm–2:00pm **Lunch and Small Group Discussions**



Community Research Collaboration Awards

FUNDED PROJECTS

1997

PILOT AWARDS

- "A Community-Based Workbook for Helping Rural Cancer Patients"
SIERRA NEVADA MEMORIAL HOSPITAL CANCER CENTER & STANFORD UNIVERSITY
- "Increasing Annual Recall in State Early Detection Programs"
CHG FOUNDATION & SAN DIEGO STATE UNIVERSITY FOUNDATION
- "Breast Cancer Risk Factors: Lesbian & Heterosexual Women"
LYON MARTIN WOMEN'S HEALTH SERVICES & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- "The Efficacy of a Retreat for Low-Income Women with Breast Cancer"
CHARLOTTE MAXWELL COMPLEMENTARY CLINIC & CALIFORNIA PACIFIC MEDICAL CENTER RESEARCH INSTITUTE
- "Breast Screening Program in the Hmong American Community"
ORANGE COUNTY ASIAN & PACIFIC ISLANDER HEALTH ALLIANCE & UNIVERSITY OF CALIFORNIA, LOS ANGELES

1998

PILOT AWARDS

- "Marin County Breast Cancer Study of Adolescent Risk Factors"
MARIN BREAST CANCER WATCH & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- "Study of Inadequate Follow-up of Mammography Abnormalities"
BAY VIEW-HUNTER'S POINT HEALTH CARE TASK FORCE, SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

FULL AWARDS

- "Samoans and Breast Cancer: Evaluating a Theory-based Program"
NATIONAL OFFICE OF SAMOAN AFFAIRS & UNIVERSITY OF CALIFORNIA, IRVINE
- "Breast Cancer Risk Factors: Lesbian and Heterosexual Women"
LYON MARTIN WOMEN'S HEALTH SERVICES & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

- "Increasing Breast Health Access for Women With Disabilities"
ALTA BATES FOUNDATION & NORTHERN CALIFORNIA CANCER CENTER
- "Do Community Cancer Support Groups Reduce Physiologic Stress?"
THE WELLNESS COMMUNITY-NATIONAL & STANFORD UNIVERSITY

1999

PILOT AWARD

- "Returning to Work and Quality of Life after Breast Cancer"
WOMEN'S CANCER RESOURCE CENTER & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

FULL AWARDS

- "Marin County Breast Cancer Study of Adolescent Risk Factors"
MARIN BREAST CANCER WATCH & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- "Breast Health Project for Hmong Women and Men"
ORANGE COUNTY ASIAN & PACIFIC ISLANDER HEALTH ALLIANCE & UNIVERSITY OF CALIFORNIA, LOS ANGELES
- "A Support Group Alternative for Rural and Isolated Women"
SIERRA COLLEGE & STANFORD UNIVERSITY

2000

PILOT AWARD

- "Does a Peer Navigator Improve Quality of Life at Diagnosis?"
WOMENCARE & STANFORD UNIVERSITY

2001

PILOT AWARDS

- "Breast Cancer Prevention and Control Among Deaf Women"
GREATER LOS ANGELES COUNCIL ON DEAFNESS, INC. & UNIVERSITY OF CALIFORNIA, LOS ANGELES
- "Efficacy of a Community Program in Increasing Access to STAR"
ASSOCIATION OF BLACK WOMEN PHYSICIANS & UNIVERSITY OF CALIFORNIA, LOS ANGELES

FULL AWARDS

- "Effectiveness of Internet vs. Face to Face Support Groups"
THE WELLNESS COMMUNITY-NATIONAL & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- "Return to Work after Breast Cancer Surgery"
WOMEN'S CANCER RESOURCE CENTER & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- "A Network-Based Intervention for Chamorros in Southern CA"
GUAM COMMUNICATIONS NETWORK, INC. & UNIVERSITY OF CALIFORNIA, IRVINE
- "Does a Peer Navigator Improve Quality of Life at Diagnosis?"
WOMENCARE & STANFORD UNIVERSITY

2002

PILOT AWARDS

- "Chemotherapy-Induced Ovarian Damage: Prevention and Impact"
YOUNG MOMS WITH BREAST CANCER, STANFORD UNIVERSITY & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
- "African American Women and Breast Cancer: What Works?"
AFRICAN AMERICAN ADVISORY COMMITTEE & KAISER FOUNDATION RESEARCH INSTITUTE

2003

PILOT AWARDS

- Reducing Disparities among Korean-American Women
KOREAN HEALTH, EDUCATION, INFORMATION AND RESEARCH CENTER (KHEIR) & UNIVERSITY OF CALIFORNIA, LOS ANGELES
- Correlates of Lymphedema Severity and Access to Intervention
WOMEN'S CANCER RESOURCE CENTER & UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

Breast Cancer Facts

- ◆ On the average, every two hours a California woman dies of breast cancer
- ◆ Nearly 200,000 California women are living with the disease
- ◆ Some 80% of women who develop breast cancer have no family history
- ◆ Breast cancer can affect women of all ages and races; older women have an increased risk of breast cancer
- ◆ In California, more than 4,200 women die of breast cancer every year
- ◆ Breast cancer is a varied and highly complex disease. It is a puzzle made up of millions of pieces. As the research supported by the CBCRP examines the pieces of this puzzle, we are putting some of them together to use the picture that emerges to teach us how to prevent, treat and cure breast cancer.

The Breast Cancer Research Program

- ◆ The CBCRP is the largest state-funded research effort in the nation and is administered by the University of California, Office of the President
- ◆ The CBCRP is funded through the tobacco tax, voluntary tax check-off on personal income tax forms, and individual contributions
- ◆ The tax check-off, included on the personal income tax form since 1993, has drawn over \$4 million for breast cancer research
- ◆ The revenue is used to make grants for California scientists and community researchers to find better ways to prevent, treat and cure breast cancer
- ◆ Since 1994, the California CBCRP has awarded nearly \$150 million in 568 grants to 62 institutions across the state

The CBCRP supports innovative breast cancer research—cow viruses, Tibetan herbs, snake venom—that might otherwise go unfunded. With continued investment, the CBCRP will work to find better ways to prevent, treat and cure breast cancer.

Breast Cancer Research Council Members

To continue to fund innovative research, the California Breast Cancer Research Program (CBCRP), the largest state-funded breast cancer research effort in the nation, must rely on an advisory committee. The committee, the Breast Cancer Research Council (BCRC), is responsible for tracking the trends and opportunities for progress that arise in the breast cancer community, making funding recommendations, and planning future directions of the CBCRP. The BCRC is made up of 15 people selected to represent those affected by breast cancer and the institutions that can help find a solution.

Staff

Director

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

Research Administrators

Laurence Fitzgerald, Ph.D.

Katherine McKenzie, Ph.D.

Walter Price, Dr.P.H.

Coordinator of Special Projects

Janna Cordeiro, M.P.H.

Analysts

Sharon Simms, M.P.A.

Lyn Dunagan

Staff

Steven Baratz

Mary Daughtry

Brenda Dixon-Coby

Maurice Matthews

Eric Noguchi

Vy Pham

Joyce Price

Roslyn Roberts (Assistant to the Director)

2002–2003

Breast Cancer Research Council

Chair, Anna M. Wu, Ph.D., *scientist/clinician*

Vice Chair, Sandy Walsh, *advocate*

A. Elaine Ashby, M.D., *scientist/clinician*

Dorothy Bainton, M.D., *scientist/clinician*

Vicki Boriack, *advocate*

Diana Chingos, *advocate*

Michael Figueroa, M.D., *medical specialist*

I. Craig Henderson, M.D., *private industry representative*

Janet Howard-Espinoza, *advocate*

Robert M. Kaplan, Ph.D., *scientist/clinician*

Irene Linayao-Putman, *nonprofit health organization representative*

M. Ellen Mahoney, M.D., F.A.C.S., *nonprofit health organization representative*

Debra Oto-Kent, M.P.H., *advocate*

Jacqueline Papkoff, Ph.D., *private industry representative*

Georjean Stoodt, M.D., M.P.H., *DHS member ex-officio*

NOTES

10 A Decade of Progress



From Research to Action: A Decade of Progress

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University of California, Office of the President
300 Lakeside Drive, 6th Floor
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