



CALIFORNIA  
Breast  
Cancer  
Research  
PROGRAM

# CBCRP Bulletin

News from the California Breast Cancer Research Program

Summer 2003  
Volume 7, Number 2

## New Career Dimensions – Nola Hylton, Ph.D.

Sandy Walsh, California Breast Cancer Research Council

**O**FTEN BASIC SCIENTISTS, CLINICIANS, EPIDEMIOLOGISTS, and public health experts do not speak the same language, and investigators from these diverse disciplines do not have the opportunity to interact. The Career Enrichment award provides this opportunity on a one-on-one basis, not just to understand the language of another discipline, but to have hands-on experience in the new field. Whether it

full professor, and as an established investigator, she felt that this was an ideal point in her career at which to make this transition. Although she had previous training in the basic sciences and had purchased books to teach herself the language and gain an understanding of the molecular methods, she realized that the only way to truly learn the language and the

*Continued on page 11*

“*Collaborations like this can play an instrumental role in achieving the translation of the results of basic, molecular research into the clinic.*”

is a breast cancer scientist exploring a new area or a scientist from another area of study expanding to breast cancer, the result is new ideas and applications that may provide innovative new insights into breast cancer problems.

This year a Career Enrichment award has been granted to a physicist, an MRI expert who will spend a year in the laboratory of a basic cancer biologist. Nola M. Hylton, Ph.D., is a professor of radiology at UC San Francisco. For the last ten years she has been working on the application of MRI to the detection, diagnosis, and staging of breast cancer as a part of the UCSF Breast MRI Research Group. She has a solid record of accomplishments, and when she began doing preliminary work using a mouse model, found a new need for the further development of her career. Dr. Hylton found it desirable to move beyond anatomical imaging to being able to look at physiological changes. She realized that to expand her work into molecular imaging, linking research in imaging and molecular biology, she needed further training in cancer biology. After her recent appointment to

### From the Director's Desk

## CBCRP - A Decade of Progress

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

**A**S THE 10<sup>TH</sup> ANNIVERSARY OF THE PASSAGE of the Breast Cancer Act of 1993 (the legislation that created CBCRP) draws near, we find ourselves immersed in an array of activities that not so long ago were no more than visions:

- ❖ Our 9<sup>th</sup> cycle of grant funding has just been awarded. With this cycle of funding, we have come closer than ever to our goal of funding a well-balanced spectrum of truly innovative research in critical and under-supported areas. With this funding of 48 new research projects and 2 conference awards, the CBCRP has invested a total of nearly \$150 million in breast cancer research over the past nine years, funding 569 projects at 62 different institutions across the state. Look for our Compendium of Awards soon, or visit our Web site to read about these exciting new research projects.
- ❖ We are in final preparations for the CBCRP's fourth Symposium, being held

*Continued on page 10*

### IN THIS ISSUE:

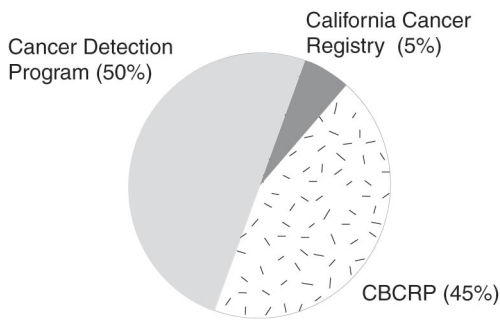
|                          |      |
|--------------------------|------|
| Cancer Detection Program | p. 2 |
| New CBCRP Course         | p. 3 |
| Course Faculty           | p. 3 |
| CBCRP Fundraising        | p. 4 |
| Executive Team           | p. 5 |
| Meeting Review           | p. 5 |
| Newly Funded Awards      | p. 6 |
| In Memoriam              | p. 9 |
| Tax Check-off Awards     | p. 9 |
| Council Members          | p. 9 |

# The Cancer Detection Program: Every Woman Counts – Reducing Breast Cancer in California...from Research to Innovative Programs

Debra Oto-Kent, California Breast Cancer Research Council

**T**HE 1993 CALIFORNIA BREAST CANCER ACT successfully increased the tobacco tax by two cents per pack to raise funds to reduce the burden of breast cancer among California women. The Breast Cancer Act funded three major components. First, research, in the form of the CBCRP, which receives 45% of the funds generated through the legislation. The second component, the California Cancer Registry, receives 5% of program funds. The remaining 50% of the revenues raised through this unique law supports the California Department of Health Services' *Cancer Detection Programs: Every Woman Counts* (CDP:EWC – formerly known as the state-funded Breast Cancer

**1993 Breast Cancer Act Funds Distribution**



Early Detection Program, and the federally funded Breast and Cervical Cancer Control Program). This broad public health program provides California's low-income, medically underserved women with screening and early breast and cervical cancer detection services.

The upcoming CBCRP symposium, **From Research to Action—A Decade of Progress**, will feature several excellent concurrent breakout sessions on Saturday, September 13, 2003, in San Diego. We invite you to attend **Session I - Breast Cancer Control in California: Progress through Collaboration, Public Health Practice, and Research**, which will be held from 11:00 a.m. to 12:30 p.m., and will highlight the decade of progress of California's unique, innovative breast cancer public health approach for underserved women. Later in the day partners from the CDP:EWC will display evaluation and research projects during the afternoon's poster sessions, slated for 3:30 p.m. to 5:30 p.m., and will host displays in the Conference's Exhibitor Area.

We are fortunate that in Breakout Session I former legislator Barbara Friedman, author of

the Breast Cancer Act of 1993 and the current Executive Director of The Burn Foundation, will provide a historical perspective of the evolution and dimensions of the legislation which started the program.

Georjean Stoodt, M.D., M.P.H., Chief of the California Department of Health Services' Cancer Detection Section, will review California's public health model for achieving breast cancer early detection through public education and outreach, professional education, screening, tracking, follow-up and case management, quality assurance and improvement, coalitions and partnerships, surveillance, and evaluation. Highlights of achievements over the past 10 years as well as collaborative research opportunities with data sets available to California researchers will be discussed.

Henry Etta Waters, R.N., P.H.N., M.N., Vice-Chair of California's Breast and Cervical Cancer Advisory Council, will discuss future directions for breast cancer prevention and control, highlighting the California Plan to Prevent and Control Breast and Cervical Cancer. She will also explore the critical need for eliminating disparities and possible research questions to advance the body of knowledge for breast cancer prevention and control in California.

Finally, Carol Somkin, Ph.D., Research Scientist for Kaiser-Permanente, Division of Research will discuss her research project, "African American Women and Breast Cancer, What Works?" that uses data collected for implementation and evaluation of CDP:EWC programs. Dr. Somkin will talk about her experience and the potential for future collaborative research efforts between the Cancer Detection Section and outside researchers.

Please join us at this informative session. We hope to spur future research applications that will embody collaboration among practitioners and researchers and utilize California's rich data sets on breast cancer services for underserved women.



**From Research to Action: A Decade of Progress**



## CBCRP Hosts a New Course with a Comprehensive View of Breast Cancer

Sue Rochman and Katherine McKenzie, Ph.D., CBCRP Biomedical Research Administrator

ON MARCH 26-27, 2003, THE CBCRP joined The Susan Love MD Breast Cancer Research (SLMD) Foundation in hosting their first-ever Breast Cancer Course for Researchers: An Interdisciplinary Review of the State of the Science. The course gave the more than 100 researchers, including basic scientists, physicians, and epidemiologists, who attended the conference a unique opportunity to learn about and discuss breast cancer science from an array of research perspectives.

The goal of the course reflected the goals of the CBCRP — to generate new research ideas by bringing together disparate groups who can develop a new way to address the breast cancer

---

“*... if the surgeons don't know what the basic scientists are doing, or the epidemiologists don't know what the radiologists have learned, we're never going to solve the breast cancer puzzle ...*”

---

issues. “This program was important to us because the goals of the Breast Cancer Course for Researchers are the same as those of our program: to eliminate breast cancer by leading innovation in research, communication, and collaboration,” said CBCRP Director Marion Kavanaugh-Lynch, M.D., M.P.H. “I feel confident that the researchers who attended this conference will use the information they gained to improve their own research and to advance what we know about breast cancer.”

The course developed from a think tank meeting at the SLMD Foundation. “It was becoming increasingly clear to me that many researchers weren't aware of how breast cancer science was approached in fields outside of their own,” says Susan Love, M.D., the foundation's president. “And if the surgeons don't know what the basic scientists are doing, or the epidemiologists don't know what the radiologists have learned, we're never going to solve the breast

cancer puzzle. The idea was to bring people together so that they could learn from each other and better understand how their own work fits into the broader field of breast cancer research.”

Prominent breast cancer experts served as Breast Course Faculty and gave state-of-the-art overviews of the epidemiology, basic science, and clinical aspects of breast cancer—to provide the “whole picture” of this disease. The four sections included in the program were (1) Normal Biology of the Breast—What We Know and Don't Know, (2) The Epidemiology of Breast Cancer, (3) Hormones and the Breast, and (4) Clinical Breast Cancer: What We Know and Don't Know. The schedule was structured to encourage attendees to participate, both in a group forum and to interact with each other.

The exchange of information was lively, enlightening, and most importantly, provided the groundwork for new collaborations and fresh ways of approaching research questions in breast cancer.



### Breast Cancer Course for Researchers Faculty:

The Normal Breast – What We Know and Don't Know  
Mary Helen Barcellos Hoff, Ph.D., Lawrence Berkeley National Laboratory  
Roy Jensen, M.D., Vanderbilt University

The Epidemiology of Breast Cancer  
Steven Cummings, M.D., University of California, San Francisco  
Sue Hankinson, Sc.D., Harvard Medical School

Hormones and the Breast  
Steffi Oesterreich, Ph.D., Baylor College of Medicine  
Richard Santen, M.D., University of Virginia  
Douglas Yee, M.D., University of Minnesota

Clinical Breast Cancer: What We Know and Don't Know  
Daniel Hayes, M.D., University of Michigan  
Funmi Olopade, M.D., University of Chicago

## Update on CBCRP Fundraising Activities

Betsy Krugliak, The Pacific Group

AS PART OF THE CBCRP FUNDRAISING AND marketing campaign, many new activities were recently launched in order to generate new opportunities for support and participation. Activities are targeted towards segments of the general public that would have a natural interest in women's issues and breast cancer, as well as companies that would be likely partners for events and promotions.

The CBCRP's network for support now reaches many Californians through new community relationships, our Executive Team, and our Community Partners Program. Here are some highlights.

### United Way of The Bay Area

For the first time in the CBCRP's history, it is now listed with the United Way of the Bay Area as a certified agency that is approved to participate in the annual Community Campaign. That means that this fall, when the Community Campaign kicks off, anyone who participates in their company's or organization's workplace campaign can donate to the CBCRP through the interactive

online giving tool on United Way's Web site, or by designating the CBCRP for a contribution on the forms distributed to all employees. In addition, representatives from the CBCRP will have the opportunity to make presentations at company gatherings and encourage employees to earmark their donations for our organization.

To give you an idea of the impact of the United Way of the Bay Area, it is the largest private funder of health and human services in Northern California, serving seven counties. The agency's mission is to partner with contributors to build healthy and safe communities. It brings together individuals, community leaders, non-profit agencies, government, businesses, and schools to create an exchange of ideas and strategies, and to promote four core issues:

education, health, safe communities, and self-sufficiency.

You can join the CBCRP in spreading the word about the United Way's Community Campaign. Let your friends in the Bay Area know about the CBCRP and encourage them to contact us regarding a presentation at their place of work at campaign time or for updates that can be used in company newsletters. All contributions to the CBCRP are greatly appreciated. To lend support, please contact our fundraising staff via email at [madelyn@talmus.com](mailto:madelyn@talmus.com).

*“ ... anyone who participates in their company's or organization's workplace campaign can donate to the CBCRP through the interactive online giving tool ... or by designating the CBCRP for a contribution on the forms distributed ... ”*

### Executive Team

On another front, the CBCRP Executive Team met in Los Angeles this spring to review activities and discuss future planning. The session also offered participants an inside look at CBCRP funding in action, thanks to a presentation by Sanford H. Barsky, M.D., one of our grant recipients. Dr. Barsky, an investigator from the Department of Pathology, UCLA School of Medicine, reviewed his work concerning the lymphovascular tumor embolus and shared findings with the Team.

### Cause To Run

A new opportunity surfaced to generate new awareness and support for our Community Partners Program when the CBCRP was designated a beneficiary of the *San Francisco Chronicle's* 5K run, Cause To Run, which took place in July. In addition to advertising, people learned about the event through a new email marketing effort and direct mail.

Outreach efforts depend on the participation of a variety of people. We encourage you to join us and help spread the word about the CBCRP by referring us to high profile activities and events in your area. Please contact [madelyn@talmus.com](mailto:madelyn@talmus.com) with your ideas and suggestions.



United Way of the Bay Area



## Community Partners Executive Team

**Sherry L. Lansing, chair:** chairman and CEO, Paramount Pictures' Motion Picture Group

**Ron Burkle:** founder and managing partner of TheYucaipa Companies

**Sharon Davis:** First Lady of California

**Gary Erickson:** president, CEO, The Erickson Group

**Faith Fancher:** journalist, breast cancer survivor

**Linda Griego:** president, Griego Enterprises

**Judith H. Guggenheim:** philanthropist

**Barbara Hopper:** real estate associate

**Dr. Cornelius Hopper:** emeritus vice president for Health Affairs, University of California

**Dr. Susan Love:** president, Susan Love MD Breast Cancer Research Foundation

**Lucy McCoy:** partner, Garcia McCoy & Lee Consulting

**Dr. Maria C. Pellegrini:** program director, W.M. Keck Foundation

**Dr. Marilyn Rosenwein:** physician, educator, and activist

**Steve Soboroff:** president, Playa Vista



## Learning about the Breast from the Inside Out

*Laurence Fitzgerald, Ph.D., CBCRP Biomedical Research Administrator*

**T**HE SUSAN LOVE MD BREAST CANCER Research Foundation hosted their 3<sup>rd</sup> Symposium on the Intraductal Approach to Breast Cancer on March 27-30. The intraductal approach is an emerging field to detect and study the earliest stages of breast cancer. It includes such techniques as ductal lavage, ductal endoscopy, and analysis of nipple aspirate fluid to analyze, detect, and treat breast cancer. It is an outstanding area for clinicians and basic scientists to combine their skills. Researchers are employing state-of-the-art technologies in cancer genetics, proteomics (protein profiling), and cytology/histology. The intraductal approach seems ideal for providing an extra level of cancer and pre-neoplasia detection for "high risk" women.

The CBCRP awarded a \$25,000 Joining Forces Conference Award to Dr. Love to partially support the organization and costs associated with this meeting. The Symposium sessions consisted of 33 invited speakers and 20 presentations by scientists/clinicians seeking pilot grant support from The Susan Love MD Breast Cancer Research Foundation. There was excellent participation by California-based breast cancer researchers and advocates as attendees, speakers, and grant applicants. Three of the 10 newly awarded pilot grants at the Symposium were given to Californians.

You can find the program proceedings for both of these conferences at The Susan Love MD Breast Cancer Research Foundation Web site

[www.susanlovemdfoundation.org](http://www.susanlovemdfoundation.org).



Join us in San Diego for our symposium celebrating the 10th anniversary of the CBCRP, September 12 -14, 2003

## Newly Funded CBCRP Awards

THE CALIFORNIA BREAST CANCER RESEARCH Program is proud to announce the funding of 48 research grants for a total of \$11,458,884 dollars. These projects address different facets of the fight against breast cancer: from investigating what makes a normal breast cell become a cancer cell to determining how we

can detect the change; from identifying elements that increase the risk of developing breast cancer to devising ways to eradicate the risk factors; from discovering new drugs using traditional or alternative medicine to finding ways to optimize the accessibility of breast cancer treatments that we already have.

### Community Impact of Breast Cancer: The Social Context

#### Health Policy and Health Services

- ❖ *The Cost of Breast Cancer in California*  
Wendy Max  
University of California, San Francisco  
Request for Applications

#### Racial/Ethnic Differences

- ❖ *Correlates of Lymphedema Severity and Access to Intervention*  
Diane Estrin, Linda Wardlow and Rani Eversley  
Women's Cancer Resource Center, Charlotte Maxwell Complementary Clinic and University of California, San Francisco  
Community Research Collaboration - Pilot
- ❖ *Lifestyle Factors & Breast Cancer Prognosis in Asian Americans*  
Anna Wu  
University of Southern California  
Request for Application
- ❖ *Racial Disparity in Breast Cancer Mortality*  
Rebecca Smith-Bindman  
University of California, San Francisco  
Request for Applications
- ❖ *Reducing Disparities Among Korean Women*  
Soo-Young Chin and Annette Maxwell  
Korean Health, Education, Information and Research Center and University of California, Los Angeles  
Community Research Collaboration - Pilot

#### Sociocultural, Behavioral, and Psychological

- ❖ *'Art for Recovery': Expanding Access for the Underserved*  
Kate Collie  
Stanford University  
Postdoctoral Fellowship

- ❖ *Assessing the Impact of Shame and Guilt in Recovery*  
Janine Giese-Davis  
Stanford University  
IDEA
- ❖ *BCT.org: Feasibility of a Clinical Trial Matching Tool*  
Morton Lieberman and John Park  
University of California, San Francisco  
Translational Research Collaboration - Pilot
- ❖ *Interplay of Family Context and Ethnicity in BRCA1/2 Testing*  
Beth Glenn  
University of California, Los Angeles  
Postdoctoral Fellowship
- ❖ *Late Cognitive and Brain Changes After Breast Cancer Therapy*  
Helen Rebecca Rausch  
University of California, Los Angeles  
STEP
- ❖ *Latinas and DCIS: Treatment Decisions and Quality of Life*  
Celia Kaplan  
University of California, San Francisco  
Request for Applications

#### Community Research Collaboration Supplement Award (CRCAS)

- ❖ *A Network Based Intervention for Chamorros in Southern California*  
Mentor Group: Guam Communications Network  
Trainee Group: Chamorro Community Council of California

## Prevention and Risk Reduction: The Environment of the Disease

### Etiology

- ❖ *Epstein-Barr Virus in Breast Cancer Tissues*  
Sally Glaser  
Northern California Cancer Center  
STEP
- ❖ *Genetics, Obesity, and Breast Cancer Risk*  
Catherine Carpenter  
University of California, Los Angeles  
Request for Applications
- ❖ *Prolactin and Breast Cancer Risk in a Multiethnic Cohort*  
Brian Henderson  
University of Southern California  
IDEA
- ❖ *The Hygiene Hypothesis and Breast Cancer Risk*  
Christina Clarke Dur  
Northern California Cancer Center  
New Investigator

### Prevention

- ❖ *Common Genetic Variation & Breast Cancer: A Genomic Approach*  
Christopher Haiman  
University of Southern California  
New Investigator
- ❖ *Preventing Breast Cancer with Ginseng*  
Michael DeGregorio  
University of California, Davis  
STEP
- ❖ *Studying the Interaction of an Essiac Tea and Food Mutagen*  
Kristen Kulp  
Lawrence Livermore National Laboratory  
STEP
- ❖ *The IGF Pathway & Breast Cancer Risk in African Americans*  
Susan Neuhausen  
University of California, Irvine  
Request for Application

## Diagnosis and Treatment: Delivering Clinical Solutions

### Earlier Detection

- ❖ *Combined Optical and Ultrasound Imaging for Breast Cancer*  
Sean Merritt  
University of California, Irvine  
Dissertation

### Innovative Treatment Modalities

- ❖ *Chinese Herb/Chemotherapy Interactions in Breast Cancer*  
Michael Campbell  
University of California, San Francisco  
STEP
- ❖ *Cryptic Peptides-Based Vaccines for Breast Tumor Treatment*  
Joseph Lustgarten  
Sidney Kimmel Cancer Center  
STEP
- ❖ *Dietary Indole Analogs Inhibit Breast Cancer Cell Invasion*  
Ling Jong  
SRI International  
STEP

- ❖ *Inhibition of Breast Cancer Cell Invasion by Natural Indoles*  
Christine Brew  
University of California, Berkeley  
Postdoctoral Fellowship
- ❖ *Inhibitors of Myc: Novel Drugs for Breast Cancer*  
Peter Vogt  
Scripps Research Institute  
STEP
- ❖ *Lactulosamines: Novel, Non-toxic Therapies for Breast Cancer*  
Margaret Huflejt  
Sidney Kimmel Cancer Center  
IDEA
- ❖ *Novel I3C Regulated Cell Cycle Factor in Breast Cancer Cells*  
Gary Firestone  
University of California, Berkeley  
STEP
- ❖ *Pilot Studies of Breast Cancer Immunophototherapy*  
Edward Nelson  
University of California, Irvine  
IDEA

## Biology of the Breast Cell: The Basic Science of the Disease

### Biology of the Normal Breast

- ❖ *Alternative pre-mRNA Splicing in Mammary Epithelial Cells*  
John Conboy  
Lawrence Berkeley National Laboratory  
IDEA
  - ❖ *Dissection of Signaling Events in the Mammary Gland in vivo*  
Yuehai Ke  
The Burnham Institute  
Postdoctoral Fellowship
  - ❖ *Does Disregulation of Centrosomes Cause Breast Cancer?*  
Kimberly McDermott  
University of California, San Francisco  
Postdoctoral Fellowship
  - ❖ *Early Transitions in Breast Cancer*  
Thea Ilsty  
University of California, San Francisco  
STEP
  - ❖ *Role of FGF10 in Early Mouse Mammary Gland Development*  
Saverio Bellusci  
Childrens Hospital, Los Angeles  
Request for Applications
  - ❖ *Functional Analysis of BORIS, A Novel DNA-binding Protein*  
Paul Yaswen  
Lawrence Berkeley National Laboratory  
STEP
  - ❖ *Identification of BRCA1 Ubiquitylation Targets*  
Peter Kaiser  
University of California, Irvine  
IDEA
  - ❖ *Translational Proteomics of Normal to Benign Breast Disease*  
Armando Giuliano, Dave Hoon, and Lori Wilson  
John Wayne Cancer Institute  
Translational Research Collaboration - Pilot
- Pathogenesis
- ❖ *Activity Based Profiling of Breast Cancer Xenografts*  
Nadim Jessani  
Scripps Research Institute  
Dissertation
  - ❖ *Angiogenesis in Hyperplasia to In-Situ Breast Cancers*  
Min-Ying Lydia Su  
University of California, Irvine  
STEP
  - ❖ *Characterization of Circulating Tumor Cells in Breast Cancer*  
Verena Kallab  
University of California, San Francisco  
Postdoctoral Fellowship
  - ❖ *Molecular Analysis of BRCA1 Function*  
Quan Zhu  
Salk Institute for Biological Studies  
Postdoctoral Fellowship
  - ❖ *Molecular Analysis of Neoplastic Progression in Mouse Model*  
Ruria Namba  
University of California, Davis  
Postdoctoral Fellowship
  - ❖ *Mechanism of Estrogen Receptor Loss in Breast Cancer*  
Keon Wook Kang  
University of California, Irvine  
Postdoctoral Fellowship
  - ❖ *Novel Genes in Mammary Gland Development and Cancer*  
Euan Slorach  
University of California, San Francisco  
Postdoctoral Fellowship
  - ❖ *Overcoming Tamoxifen-resistance in breast cancer*  
Kristiina Vuori  
The Burnham Institute  
STEP
  - ❖ *Role of Oxidative DNA Damage to Breast Tumor Progression*  
Paul Henderson  
Lawrence Livermore National Laboratory  
New Investigator
  - ❖ *SRC Signaling in Breast Cancer*  
Steven Martin  
University of California, Berkeley  
IDEA
  - ❖ *Study of the Apoptotic Phenotype as a Hallmark of Malignancy*  
Nola Hylton  
University of California, San Francisco  
Career Enrichment

- ❖ *Understanding Herceptin Resistance with Dual Function Array*  
Tsui-Ting Ching  
University of California, San Francisco  
Postdoctoral Fellowship



## In Memoriam

**W**E ARE VERY SAD TO REPORT THE DEATH of Andrea Ravinett Martin (1946-2003) who passed away August 6th following a two year struggle with brain cancer. Andrea was a passionate breast cancer advocate who fought for the creation of the California Breast Cancer Research Program in the early 1990's and served on our advisory Council during the first few years of the program. She founded The Breast Cancer Fund in San Francisco and devoted her life to women's health advocacy. Our deepest sympathies to her family and loved ones.



**Andrea Ravinett Martin**  
(1946-2003)

## Tax Check-off Awards

**E**VERY YEAR CALIFORNIANS HAVE THE opportunity to give to the California Breast Cancer Research Program through the voluntary tax check-off option on their state income tax form. We thank those who have contributed to this fund for their generous support. Your contributions this year supported the following awards:



### Tax Check off Awards:

- ❖ *Characterization of Circulating Tumor Cells in Breast Cancer*  
Verena Kallab  
University of California, San Francisco  
Postdoctoral Fellowship Award
- ❖ *Genetics, Obesity, and Breast Cancer Risk*  
Catherine Carpenter  
University of California, Los Angeles  
Request for Applications
- ❖ *Overcoming Tamoxifen-resistance in Breast Cancer*  
Kristiina Vuori  
The Burnham Institute  
STEP Award
- ❖ *Translational Proteomics of Normal to Benign Breast Disease*  
Armando Giuliano, Dave Hoon, and Lori Wilson  
John Wayne Cancer Institute  
TRC Pilot Award
- ❖ *Racial Disparity in Breast Cancer Mortality*  
Rebecca Smith-Bindman  
University of California, San Francisco  
Request for Applications



## Breast Cancer Research Council Members

**T**O CONTINUE TO FUND INNOVATIVE research, the California Breast Cancer Research Project (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.



## Director's Desk

*continued from page 1*

in San Diego. We expect several hundred scientists, advocates, clinicians, and others to gather for 3 days of exciting research reports and stimulating exchanges. Highlights include a Keynote Address by Sarah Weddington, a Plenary Session on the Environment and Breast Cancer Prevention,

---

“  
... these efforts will  
lead us to the day  
when breast cancer  
is no longer a  
threat... ”

---

and an Art Exhibition that brings the very human elements of breast cancer to the forefront of the Symposium. We hope you will join us!

- ❖ The CBCRP's new Development Program continues to grow. The CBCRP was the chosen featured beneficiary of the *San Francisco Chronicle* 5K Cause to Run last month. Through marathon materials and our presence at the 3-day Health Expo, the word about the CBCRP's work is spreading even further. For information on other activities and on how you can help, see the story on

page 4 and visit our Web site at [www.cbcrp.org/support](http://www.cbcrp.org/support).



- ❖ The CBCRP is broadening its reach through collaborations with other organizations that help us educate breast cancer researchers and stimulate new collaborations and ground-breaking research. In March, we partnered with the Susan Love MD Breast Cancer Research Foundation to produce "Breast Cancer Course for Researchers: An In-Depth Interdisciplinary Review of the State of the Science." (see story on page 3). We also sponsored the 3<sup>rd</sup> International Symposium on the Intraductal Approach to Breast Cancer (see story on page 5). Coming up is the 24th Congress of the International Association for Breast Cancer Research - Advances in Human Breast Cancer Research: Preclinical Models, to be held November 1-5 in Sacramento.

We know that these efforts will lead us to the day when breast cancer is no longer a threat to women's health, but so much more remains to be done.

A handwritten signature in cursive script that reads "Mel Kawanaugh-Lynch".

## Announcement

The CBCRP has awarded a \$25,000 Joining Forces Conference Award to Dr. Robert Cardiff from UC Davis to partially support an international conference on November 1-5, 2003. *The 24th Congress of the International Association for Breast Cancer Research* includes both advances in human breast cancer research and preclinical models for breast cancer research. The meeting is being held at the Sacramento Convention Center and Sheraton Grand Hotel, Sacramento. Detailed program information and registration for this conference can be found at: <http://cme.ucdavis.edu/iabcr.htm>. The CBCRP will be supporting advocacy participation as session moderators and events to facilitate collaborations between California scientists. Our staff will be present to meet you and answer any questions, and we will be displaying our 2004 Call for Applications.

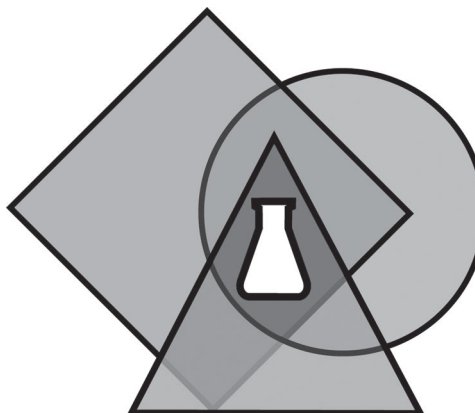
## New Career Dimensions

continued from page 1

techniques, so that they would be “second nature,” was to have hands-on training under the tutelage of an expert.

The laboratory of Gerard Evan, Ph.D., the Gerson & Barbara Bass Bakar Distinguished Professor of Cancer Biology in the Department of Cellular and Molecular Pharmacology at UC San Francisco, is studying the molecular processes that underlie the formation of tumors, tumor progression, and the maintenance of tumors. His laboratory has developed a series of mouse models of human cancer in which the formation of tumors can be turned on or off. Dr. Hylton will spend her time during the next year in his laboratory utilizing the animal models and the molecular techniques available. These models will provide an excellent means to evaluate the use of a variety of imaging strategies to study the stages of cancer. This is a perfect combination of disciplines and will allow Dr. Hylton to gain expertise in the language, tools, and scientific methods of cancer biology and will allow her to use these new tools to understand biologic processes using multiple modalities to interpret studies. Application of these newly developed techniques to her own laboratory studies of breast cancer imaging could open exciting and fertile new areas of breast cancer research. Collaborations like this can play an instrumental role in achieving the translation of the results of basic, molecular research into the clinic.

Career enrichment can also be described as career transition. It can allow the opportunity for clinicians/scientists to make a transition into another area of emphasis. This could be an area such as public policy that may interest a physician as a step toward “semi-retirement”. Community physicians could also develop expertise in conducting clinical trials and by doing this could make it possible for expanded participation in clinical trials. For information or assistance concerning the Career Enrichment Awards, contact the CBCRP. Research administrators will be glad to help you.



### DIVERSITY | INTERACTION

**ENRICHMENT:** to make rich or richer especially by the addition or increase of some desirable quality, attribute, or ingredient; to make more fertile; to process so as to add or increase the proportion of a desirable ingredient

Does this sound like something you would like to do to your career? If so the Career Enrichment award may be for you. This award serves several purposes. It allows a breast cancer investigator or clinician to expand his/her area of expertise to a new, completely different discipline, or it can bring to breast cancer research a cross disciplinary approach to studies that may open new insights into the disease.

For more information, contact Dr. Katherine McKenzie at 888-313-BCRP (2277).



### Recent CBCRP Publications

(These and all other publications are available on the CBCRP Web site.)

Cycle IX 2003 Awards

2003 Grant Administration Manual

"From Research to Action: A Decade of Progress" Research Symposium Program

2002 Advances in Breast Cancer Research

### CBCRP 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

Brenda Dixon-Coby

Lyn Dunagan

Eric Noguchi

Sharon Simms, M.P.A.

#### Staff

Steven Baratz

Mary Daughtry

Maurice Matthews

Vy Pham

Joyce Price

Roslyn Roberts

### 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-Putnam, *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*

## What is the California Breast Cancer Research Program?

The California Breast Cancer Research Program (CBCRP) was established pursuant to passage by the California Legislature of the 1993 Breast Cancer Act (i.e., AB 2055 (B. Friedman) [Chapter 661, Statutes of 1993] and AB 478 (B. Friedman) [AB 478, Statutes of 1993]). The program is responsible for administering funding for breast cancer research in the State of California. The mission of the CBCRP is to eliminate breast cancer by leading innovation in research, communication, and collaboration in the California scientific and lay communities.

### 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 569 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.

### CBCRP Bulletin

1949

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

PRE-SORTED  
FIRST CLASS  
U.S. POSTAGE  
**PAID**  
University of  
CALIFORNIA

CBCRP Bulletin is a publication of the California Breast Cancer Research Program

University of California, Office of the President  
300 Lakeside Drive, 6th Floor  
Oakland, CA 94612-3550

Phone: (510) 987-9884

Toll-free: (888) 313-BCRP (2277)

FAX: (510) 587-6325

E-mail: cbcrcp@ucop.edu

Web site: www.cbcrcp.org



Printed with soy-based ink on recycled, chlorine-free paper