

### **Breast Cancer and the Environment Research Centers**

### **Community Outreach and Translation Cores**

**Fox Chase Cancer Center (FCCC)** 

Michigan State University (MSU)

Bay Area (BA)

**University of Cincinnati (UC)** 



## **COTC Objectives**

- Ensure community voice is incorporated
  - Foster collaboration and trust between scientists and community groups
- Dissemination of research
  - Translate findings into meaningful information for the public and policymakers
  - Develop educational key messages based on research findings
- Evaluation of community involvement in BCERC



# COTC Collaborations With Biology and Epidemiology Projects

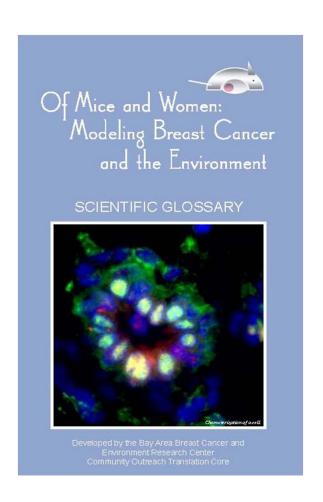
- Community input on selection and framing of research agenda
  - Prioritization of environmental exposures and input into questionnaire development
- Nine fact sheets on environmental exposures
- Advocates co-authored scientific publications
- Lay abstracts of scientific publications



## **COTC Collaborations With Biology**

- Hands-on Laboratory Training for Advocates
- DVD "Of Mice and Women"







# COTC Collaborations With Epidemiology

- Recruitment and retention of study participants
  - More than 90% retention at sites with heavy advocate involvement
- Communicate results and other health and chemical data to participants' families
  - PFOA
  - PBDEs
  - Phthalates/1,4-dichlorbenzene (moth balls)



## Recruitment and Retention **Tools/Activities**



#### The CYGNET Study: Part of a National Research Effort

#### **WELCOME BACK!**

It's been a delight and pleasure meeting each of you throughout the year, and we look forward to seeing you again. To keep you informed of our progress, we currently have 367 girls and their families enrolled in the study and hope to reach our study goal of 400 participants in the next couple of months.

With your enthusiastic participation, we've held CYGNET Study Tea Talks in Oakland and San Rafael, where participants learned about the purpose of the study and its broader implications. CYGNET girls had their own set of activities, which included a mini research project, collage art activities, and a hip hop class. Each girl left with a certificate and her own copy of "The Care and Keeping of You: The Body Book for Girls," published by

For participants unable to attend the Tea Talk, the discussion revolved around the normal variations in development of girls and what results in differences in age at onset of puberty and breast development. It also explained the CYGNET Study's relationship with the Bay Area Breast Cancer and the Environment Research Center. After meetings with leaders in the breast cancer advocacy community and scientists at the National Institutes of Health (NIH), it became clear that development of the breast, on a molecular or tissue level and in response to various environmental, lifestyle, or genetic exposures, was not wellunderstood. Thus, the NIH, through the National Institute of Environmental Health Sciences (NIEHS) and the National Cancer

and the Environment Research Centers (BCERCs). Please see the map on page 4 for center locations and other collaborating institutions.

Each center includes three key components: an animal study; an epidemiologic study, in which girls will be followed over several years to investigate what may influence age at onset of puberty; and a community outreach and translation core, which ensures that research activities in these centers are responsive to community concerns. The CYGNET Study is one of the epidemiologic studies. These Centers are organized to promote interactions among the investigators, the community members, and scientists at NIEHS and NCI. This is truly a cooperative effort, and your role as one of a projected 1,200 participating families nationwide is central to the overall success of this research program.

The importance of the CYGNET study has been recognized by the media. In late March, a photographer from National Geographic















Flavoring Your Family's Food

with Farmers' Market Fare 2

Summer Activities 3 & 4

Butterflies and Blood? 5

Yoga Pose of the Month 5

510-891-3884 510-891-3106, fax



# **Community Participation**



















# **Annual Conference: Early Environmental Exposures**

#### BREAST CANCER AND THE ENVIRONMENT RESEARCH CENTERS



#### Fourth Annual Early Environmental Exposures Meeting

November 8-9, 2007 Westin Hotel, Cincinnati, OH

#### **Conference Purpose**

Program

**Abstracts & Posters** 

Registration

**Program Committee** 

**Hotel & Travel** 

BCERC



**AVON Foundation** 

#### PROGRAM

	THURSDAY, NOVEMBER 8, 2007
7:00-	Continental Breakfast & Registration (Gibson Foyer, third level)
8:30-9:00	Welcome & Opening Remarks (Presidential Ballroom)
Session I:	Puberty and Normal Mammary Gland Development: Understanding Windows of Exposure Susceptibility and Opportunities for Intervention [ABSTRACTS] (Presidential Ballroom)
9:00-9:15	Moderator: Paul Yaswen, PhD, Lawrence Berkeley National Laboratory
9:15-9:45	Variations on a Common Theme: Progesterone Regulation of Normal Mammary Gland Development in Humans, Rats and Mice Sandra Z. Haslam, PhD, Michigan State University
9:45-10:15	Effects of Environmental Exposures on Mammary Stem cells Mary Helen Barcellos-Hoff, PhD, Lawrence Berkeley National Laboratory
10:15-10:30	Break
10:30-11:00	Puberty as a Window of Susceptibility to Environmental Toxins Frank Biro, MD, Cincinnati Children's Hospital Medical Center [video] and Mary Worlf, PhD, Mt. Sinai School of Medicine
11:00-11:30	Unlocking the Laboratory: Introducing Breast Cancer Advocates to Bench- Top Research Kathy Ball (UC) [video], Janice Barlow (UCSF) [video] & Ann Fonfa (FC) [video]
11:30-12:00	A & D
12:00-1:30	Lunch - Lunch with the Experts (Fountain Room, second level)
Session II:	Impacts of Everyday Stressors on the Development of Young Girls [ABSTRACTS] (Presidential Ballroom)
1:30-1:45	Moderator: Robert A. Hiatt, MD, PhD, University of California San Francisco
1:45-2:15	Psychosocial Studies of Girls and their Families in the Cincinnati Breast Cancer and the Environment Research Center Kim Dietrich, PhD, University of Cincinnati [video]
	Psychosocial Studies of Girls and their Families in the Breast Cancer and the Environment Research Center



Poster Session, Annual Meeting November 2007



Scientific Session, Annual Meeting November 2007

website: www.bcerc.org

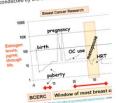
Julianna Deardorff, PhD, University of California San Francisco [video]



## Dissemination of Educational and **Outreach Materials**

### Onset of Puberty in Girls and Breast Cancer Research

Onset of Puberty in Girk and Breast Cancer Research
The National Institute of Environmental Health Sciences
(NEHS) and the National Cancer Institute (Kir) have funded
four national Breast Cancer and the Environment Research
four national Breast Cancer and the Environment Research
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that may predispose a womantal over 1200 young gifts of different racial/ethnic groups and server 1200 young gifts of different racial/ethnic groups and ges
6 - 7 who are being fordered prospectively for the environment of the property of the environment of the property of t



#### Why is early onset of puberty in girls a breast cancer in later years?

Early or premature puberty can expand the Early or premature puberty can expand the it a girl's breast budding (thelarche) and first it (menarche) and can expose a woman to grid extraogen over her infelime. This risk is of spenumerous studies are providing evidence it entering puberly (thelarche) up to 1 1/2 year have in past generations.



4340 Redwood Highway, Suit San Rafael, California 94 415.507.1949 • www.zerobreas

Zero Breast Cancer leads the Bay Area Breast Car Research Center Community Outreach and Zero Breast Cancer is dedicated to finding the cause community participation in the rese



The Bay Area Breast Cancer & the Environment Research Centr Community Outreach and Translation Core Use www.bcerc.org/cotc.htm

The Mind-Body Connection - Onset of Puberty in Girls

growth and development.

Puberty is the time period in a young girls life when a series of hormonal, physiological, cognitive, and socio-emotional changes are simultaneously taking place. This time period changes are simultaneously came



#### Mount Sinai Community **Health Bulletin**

Tuna Fish Facts

Staying Healthy in a Changing Environment #3 Are you pregnant, nursing, or thinking of becoming pregnant?

Do you have children under 7 years old?

Tuna Fish is Good for You, but...

\* Tuna fish is good for you. The nutrients found in tuna fish are important for \* Because of pollution in our oceans, canned tuna fish can contain very small amounts of something called methylmercury.



- Methylmercury is a substance that can be toxic in high doses. . Too much methylmercury can be harmful to developing bables and children
- \* Methylmercury can damage bables' nervous systems, leading to learning disabilities and problems with coordination.

What Can I Do?

· Children under 7 years old and women who are pregnant, nursing, or thinking of becoming pregnant, should follow these guidelines for tuna:



For more information, contact: Dr. Luz Claudio or Reeve Chace, (212) 241-1233, reeve.chace@mssm.edu or visit www.http://www.cfsan.fda.gov/~dms/admehg3.html

What are some examples of common everyday what are some examples of common everyaay exposures to phthalates and tips to avoid exposure? owaving food using plastic products.

cking or chewing soft plastic/vinyl produ ng or hewing soft plastic/ninyl products.

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plastic-frustrus, soil the manufacture. In
1998 the US Consumer Product splastic primission (c
requested plastic between the product of plastic plast

are products and vinyl clothing labels. If unsure, call the manufa

situations, is used in a wide range of medical devices, such as avenues (NV) tubing, blood bags, and cotheters. Ask in health knee provider to use phthalate. Ask i medical bags especially) and dialysis.

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the natural func tive and genital ne levels in adole it in adult males

docrine disruptor means that whe ter mimic or bloc hormones involv

Zero

(THAL-ates) What are pithholders?

What are see a family of man-made chemical compounds developed in the see family of man-made chemical compounds developed in the see and see that the see and see that the see a see

Ingestion, inhalation, skin above



Todos los plásticos no son iguales. Algunos son más seguros que otros. uando los plásticos hacen contacto con los alimentos y el agua, pueden escapars ciertas químicas. El Guía del Bolsillo para los plásticos de Creciendo Saludable puede ser usado mientras hace compras

Compruebe el símbolo en el fondo del artículo antes de comprar: Las opciones plásticas más seguras para alimentos y bebidas:













Plásticos que deben evitar:







Otros conceios para el uso de plásticos seguros:

- 1. Trate de no usar recipientes plásticos o Styrofoam en el microondas Si usted puede, es mas seguro usar recipientes de cristal o cerámica.
- Tenga cuidado al usar envolturas plásticas en el microondas.
   Una opción segura es papel encerado.
- 3. Trate de reducir el uso de PVC, vinilo o poliestireno o Styrofoam

Para mas información, contactar a: Dr. Luz Claudio o Reeve Chace, (212) 241-1233 reeve chace@mss

Mount Sinni Medical Center GCO# 03-0389





### **Communicating the Research**

### Dissemination Research

- News media and website analysis
- Focus groups with mothers and daughters
- Message testing
- Survey of study families
- Key Targeted Audiences
- Strategies for Dissemination



# **Evaluation of Community Involvement in BCERC**

### **Positive Effects of Community Involvement:**

 Increased community understanding and support of the scientific process

"I could really see the community benefit from what was found. What did they discover? Is it something we can work on, something that can be utilized for generations to come?" —Community Member

Heightened sensitivity and propriety of the research

"Is this appropriate for a 7-year-old girl? What's a mother going to think?"

— COTC Member



# **Evaluation of Community Involvement in BCERC**

### **Positive Effects of Community Involvement:**

 Improved communication and sharing of knowledge between scientists and community advocates

"The truth is scientists have expertise and skill that advocates don't. But advocates have insight and a perspective that scientists don't. And, it's really about mutual understanding. Having both perspectives is really valuable." -- BCERC researcher



## **Going Forward**

- Serve as a model for continued community involvement in research
- Keep study participants and their families informed
- Expand local targeted community dissemination to a national focus
- Strengthen relationships with local, regional, and national advocacy organizations



"If you want to go quickly go alone; if you want to go far go together."

African Proverb