

## Windows of Susceptibility to Environmental Risks for Breast Cancer: Translating Research Findings

**Date:** October 25, 2013

**Time:** 2:30-4:00 p.m. ET

Please register at: [http://bit.ly/PEPH\\_BC](http://bit.ly/PEPH_BC)

(registration required)

**Description:** The Breast Cancer and the Environment Research Program (BCERP) was first established in 2003 to create a multidisciplinary network of scientists and community partners to examine the effects of environmental exposures that may predispose a woman to breast cancer. A key focus of the BCERP program is understanding specific time periods when the developing breast may be more vulnerable to environmental exposures, referred to as “windows of susceptibility.” The purpose of this webinar is to provide a general overview on potential “windows of susceptibility” for breast cancer risk across a woman’s lifetime and to highlight two examples of how projects supported through the BCERP are translating research findings around this concept.

### Pregnancy, Obesity, and Breast Cancer Subtypes

Melissa Troester, Ph.D., University of North Carolina – Chapel Hill



Pregnancy and obesity have complex relationships with breast cancer risk. The period following a pregnancy may be one critical time in a woman’s life when changes in body weight have significant effects on breast cancer risk. However, it is also important to consider the type of breast cancer because some breast cancers are more strongly linked with changes in adiposity than others. This talk will address how human studies, animal studies, and cell line studies, taken together, can yield important information about mechanisms of breast carcinogenesis.

### Interpretation & Translation of Research (Scientific Information) into Other Languages

Pang Vang, CHES, M.Ed., R.N., University of Wisconsin – Milwaukee

Symma Finn, Ph.D., NIEHS



Pang Vang



Symma Finn

This presentation will familiarize the audience with the UWM House of Peace Community Nursing Center’s women’s health initiative and will discuss successes and challenges the center encounters when translating/interpreting research or scientific information into other languages (with a focus on Hmong). The presentation also will explore a research translation toolkit.

### Animal Studies with Real-World Human Exposures

Susan Teitelbaum, Ph.D., Icahn School of Medicine – Mount Sinai



This presentation will provide an overview of an NIEHS/NCI-funded translational research project: “Breast Cancer Genomics in Windows of Susceptibility to Endocrine Disruptors.” Most animal studies use exposure doses that are far greater than real-world human exposures. This study was designed to use existing human data to guide exposure experiments in animals, thus allowing researchers to identify exposure doses that could be used in future animal experiments so as to mimic the levels commonly experienced in the general population. The results of the animal experiments will be used to guide further research in a breast cancer epidemiologic study.



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### PEPH Webinar Series

The Partnerships for Environmental Public Health (PEPH) program established the PEPH Webinar Series to promote interactions among PEPH grantees and to increase awareness of common issues and approaches. The webinars facilitate consideration of emerging issues. While the primary audience is grantees within the PEPH network, anyone interested in environmental public health is welcome to register.

If you have any questions about this webinar, please contact Liam O’Fallon ([ofallon@niehs.nih.gov](mailto:ofallon@niehs.nih.gov), 919-541-7733).

Individuals with disabilities who need accommodation to participate in this event should contact Liam O’Fallon ([ofallon@niehs.nih.gov](mailto:ofallon@niehs.nih.gov), 919-541-7733). TTY users should contact the Federal TTY Relay Service at 800-877-8339. Requests should be made at least 5 business days in advance of the event.

