Mammary Gland Evaluation and Risk Assessment Workshop

November 16-17, 2009
Waterfront Plaza Hotel, Oakland, CA

Following the National Academy of Science's publication, *Toxicology in the 21st Century*, everyone in the toxicology field seems to be talking about how we will transform our biology-based science into the molecular and mechanism-based science of the future, but these are not our only challenges. We also need to understand the implications of specific chemically-induced biological changes for human health, and translate biological observations to risk assessment for many classes of compounds that we are exposed to every day.

This Mammary Gland Evaluation and Risk Assessment workshop will facilitate progress in evaluating the effects of early life chemical exposure on mammary gland development, function, and carcinogenesis in animal models and translating those effects to human health risk.

Conference Goals:

- Improve research translation
  - Inform risk assessors and screening and testing entities about mammary gland development in animal models and humans, as well as potential implications of disruptions to this development on functional effects such as cancer, lactation, and puberty.
  - Inform mammary gland biologists and toxicologists working in this area about study design considerations that would facilitate use of their data to evaluate chemical risk.
- Develop and publish standardized protocols for evaluating effects of early life exposures on mammary gland development.
- Recommend mammary gland endpoints to be included in toxicology study designs.
- Identify and prioritize data gaps and future research needs.

The proposed conference represents a novel program of translational research between basic scientists studying effects of chemical exposures on mammary gland development; toxicologists, risk assessors, and regulators who consider these studies in developing chemicals testing protocols, human exposure guidelines and environmental regulations; and epidemiologists studying relevant endpoints in humans (lactation, puberty, breast cancer).

This workshop is supported by the US Environmental Protection Agency, the National Institute of Environmental Health Sciences, and the California Breast Cancer Research Program; and is being planned and coordinated by Dr. Suzanne Fenton (US EPA), in collaboration with Ruthann Rudel (Silent Spring Institute). Attendance at the workshop is limited to invited participants and a small number of registered observers.

Please contact Laura Perovich (617-332-4288 x215 or perovich@silentspring.org) at Silent Spring Institute for additional information.