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Chemistry

Dr. D. Bhattachareyya
Chemicals & Materials Engineering

Dr. Lisa Cassis
Nutritional Sciences

Dr. Sylvia Daunert
Chemistry

Dr. Lisa Gaetke
Nutrition and Food Science

Dr. Bernhard Hennig,
Program Director
Toxicology

Dr. Lindell Ormsbee
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Dr. Arnold Stromberg
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Dr. Michal Toborek
Neurosurgery

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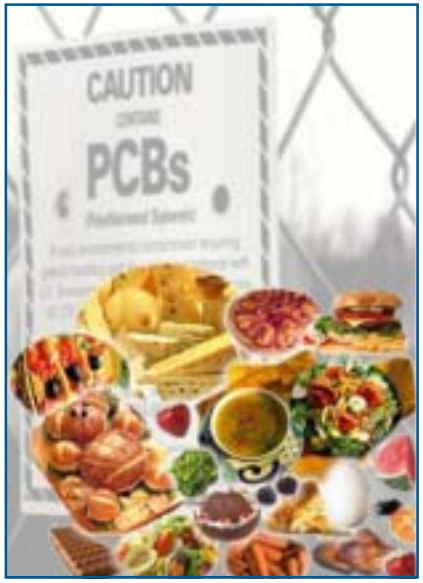
Nutrition & Chemical Toxicity



Superfund

Basic Research Program

at

UNIVERSITY OF KENTUCKY

Nutrition and Superfund Chemical Toxicity

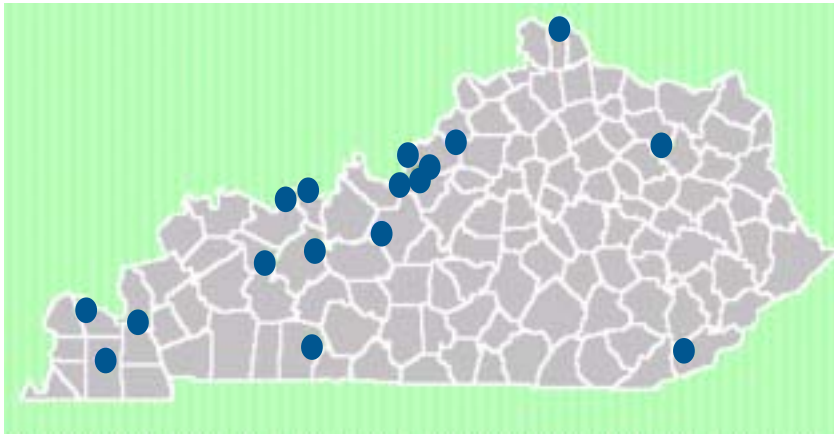
The National Institute of Environmental Health Sciences' Superfund Basic Research Program was created in 1986 as a University-based program of basic research and training grants for Superfund-related projects. The program's mission is to promote research that will reduce the burden of human illness and dysfunction from environmental causes.

First funded in the late-1990's, the University of Kentuck's Superfund Basic Research Program (UK-SBRP) explores the idea that nutrition can modify Superfund chemical effects and improve health and disease outcomes associated with Superfund chemical exposure.

Current UK-SBRP research projects investigate the adverse health effects of Superfund chemicals known as chlorinated organic compounds, such as PCBs and TCE.

Some projects are creating novel techniques for detection and removal of these pollutants from the environment.

Other projects use these pollutants to examine their negative impacts and to determine how health effects of exposure can be reduced by such factors as genetics and nutrition.



Kentucky is home to numerous Superfund National Priority List sites.

UK-SBRP Research Projects

- Superfund Chemicals, Nutrition and Endothelial Cell Dysfunction
- Vascular Mechanisms of PCB-Induced Brain Metastasis
- The Impact of Obesity on PCB Toxicity
- Sensing Superfund Chemicals with Recombinant Systems
- Chloro-Organic Degradation by Nanosized Metallic Systems and by Chelate-Modified Hydroxyl Radical Reaction

In addition to UK-SBRP Research Projects, NIEHS supports Research Translation and Community Outreach programs. These cores work closely together to communicate research findings and their applications to many different audiences, including the general public, policymakers, and health professionals.