

Elizabeth Oesterling

BethOesterling@uky.edu

859-323-4933 x81376

EDUCATION

University of Kentucky – Lexington, Kentucky, Ph.D. in Toxicology

Expected Graduation: May 2008

Bucknell University – Lewisburg, Pennsylvania B.S. in Biochemistry

Graduated: May 2003

University of Auckland – Auckland, New Zealand, Spring 2002 Semester Abroad

AWARDS AND HONORS

- 4/07 Poster Award at 2007 Toxicology and Risk Assessment Conference in Cincinnati, OH
- 3/07 UK Graduate School Travel Award to 2007 Society of Toxicology
- 10/06 Poster Award at 2006 Central and Eastern European Conference on Health and Environment (CEECH) in Bratislava, Slovak Republic
- 10/06 Session Co-chair for Student Priority Session on Risk Assessment and Remediation at 2006 Central and Eastern European Conference on Environment and Health
- 10/06 Travel Award Recipient to CEECH 2006 to Bratislava, Slovak Republic
- 5/06 Awarded American Heart Association Predoctoral Fellowship, 2 years at \$21000: “Polycyclic Aromatic Hydrocarbon-Mediated STAT Signaling: Implications in Vascular Inflammation”
- 4/06 UK Graduate School Travel Award to 2006 EPA Science Forum
- 10/04 Poster Award at 2004 Central and Eastern European Environmental Health Conference: Health Sciences Solving Common International Problems in Prague, Czech Republic
- 10/04 UK Graduate School Travel Award to 2004 CEEHC
- 7/03-7/06 Ruth L. Kirschstein National Research Service Award and Training Grant Recipient (ES-07266)
- 05/02-09/02 Katherine Mabis McKenna Summer Environmental Internship Program Awardee, Bucknell University, Major Professor: Dr. Alison Draper

EXPERIENCE

- 9/03- present Enrolled in Ph.D. program at University of Kentucky Graduate Center for Toxicology, College of Medicine
Major Professor: Dr. Bernhard Hennig
- 9/01 – 5/03 Teaching Assistant for Introduction to Molecules and Cells Laboratory
Major Professor: Professor Karin Knisely
- 9/00- 5/03 Bucknell University: Environmental Toxicology and Chemistry Research Assistant
Major Professor: Dr. Alison Draper
- Research on the toxic effects of tire leachate on the survival of *Daphnia magna* and *Ceriodaphnia dubia*
 - Research on Chemical Analysis of an Organic Chelator of Zinc in Tire Particles using GC-MS and organic extractions
 - Research on Immunological Effects of Tire Particle on Human Alveolar Macrophages
- 5/01- 9/01 Community outreach and environmental lobbying research for Clean Water Action
Supervisor: Pamela Irvine
- 5/99- 9/00 Virginia Institute of Marine Science: Aquaculture Genetics and Breeding Technology Center Summer Aide
Major Professor: Dr. Stan Allen
- Acquired field experience in aquaculture, algal culturing, shellfish development and rearing
- 6/98- 8/98 Virginia Institute of Marine Science: Organic Chemistry Laboratory FIRST (Female Initiation into Research Science and Technology) Internship funded by NSF.
Major Professors: Dr. Elizabeth Canuel and Dr. Rebecca Dickhut

- Developed a method for extracting Polycyclic and Heterocyclic Aromatic Hydrocarbons from air samples
 - Studied the PAH and HAH concentrations in various automobile exhausts
- 10/96-5/98 Virginia Institute of Marine Science, College of William and Mary: Environmental Chemistry Laboratory
Major Professor: Dr. Rob Hale
- Independent Research: Interaction of Dissolved Organic Carbons, Malathion, and Copper Sulfate on the bioluminescence of *Vibrio fischeri*

PRESENTATIONS

- 4/07 Poster Presentation at 2007 Toxicology and Risk Assessment Conference in Cincinnati, OH: "Benzo[a]pyrene-Induced Vascular Endothelial Adhesion Molecule Expression Can Be Disrupted By Flavonoid Treatment: Implications in Cardiovascular Disease"
- 3/07 Poster Presentation at 2007 Society of Toxicology Meeting in Charlotte, NC: "Manufactured Nano-Sized Alumina Particles Induce Endothelial Cell Dysfunction: Implications in Vascular Disease"
- 12/06 Poster Presentation at 2006 Superfund Basic Research Program Annual Meeting in La Jolla, CA: "Manufactured Nano-Sized Alumina Particle Induced Endothelial Cell Dysfunction: Implications in Vascular Disease"
- 10/06 Poster Presentation at 2006 Central and Eastern European Conference on Environment and Health in Bratislava, Slovak Republic: "PCB-Induced Endothelial Cell Dysfunction: Implications in Atherosclerosis"
- 10/06 Poster Presentation 2006 Gill Heart Institute Research Day in Lexington, KY: "Manufactured Nano-sized Alumina Particles Induce Endothelial Cell Dysfunction: Implications in Vascular Disease"
- 6/06 Bernhard Hennig, X. Arzuaga, Z. Majkova, Eun-Jin Lim, Elizabeth Oesterling, E. Smart, M. Toborek "Endothelial Cell Dysfunction: Environmental Contaminants and Nutritional Implications" XIV International Symposium on Atherosclerosis in Rome, Italy
- 6/06 Poster Presentation 2006 UK Clinical and Translational Science Meeting in Lexington, KY: "Persistent Organic Pollutants and Endothelial Cell Dysfunction: Implications in Vascular Disease"
- 5/06 Poster Presentation at 2006 EPA Science Forum in Washington, DC: "Persistent Organic Pollutants and Endothelial Cell Dysfunction: Implications in Vascular Disease"
- 10/04 Poster Presentation at 2004 Central and Eastern European Environmental Health Conference: Health Sciences Solving Common International Problems in Prague, Czech Republic: "PCB-mediated inflammatory signaling: implications in atherosclerosis"
- 06/04 Poster Presentation at 2004 PCB Workshop at the University of Illinois: "Nutrient-Mediated Protection of PCB Toxicity in Endothelial Cells"
- 05/01 Poster Presentation at Society for Environmental Toxicology and Chemistry (SETAC) Hudson-Delaware Chapter Meeting

PUBLICATIONS

- 02/07 Environmental toxicity, nutrition, and gene interactions in the development of atherosclerosis. (2007) Bernhard Hennig, Elizabeth Oesterling, Michal Toborek. **Nutrition, Metabolism & Cardiovascular Diseases**: 17: 162-129.
- 06/05 Modification of Environmental Toxicity by Nutrients: Implications in Atherosclerosis. (2005) Bernhard Hennig, Gudrun Reiterer, Zuzana Majkova, Elizabeth Oesterling, Purushothaman Meerarani, Michal Toborek. **Cardiovascular Toxicology**: 5(2): 153-60.

PROFESSIONAL SOCIETIES

- 2007 Society of Toxicology

ACTIVITIES

- 2006 – present Internal Advisory Board Member for UK Superfund Basic Research Program
- 2005 – 2006 President of Toxicology Student Forum, Graduate Center for Toxicology, UK
- 2004 – 2005 VP of Toxicology Student Forum, Graduate Center for Toxicology, UK