

Abbreviated CV (2012-present)

NAME: Bernhard Hennig, Professor
DOE: Research 90; Instruction 10

NEW APPOINTMENTS:

2003-present; DIRECTOR, University of Kentucky Superfund Research Center

PROFESSIONAL STATUS AND ACTIVITIES:

HONORS AND AWARDS:

University of Kentucky Wyatt Award (Morris, Hennig, Pearson) 2014

Fulbright Specialist Roster member, 2013-2018

Featured in NIH/NIEHS *Environmental Factor*, "Hennig receives prestigious professorship at the University of Kentucky", 2013

2013 Hazel K. Stiebeling Lecturer, Florida State University

University of Kentucky Research Professorship Award, 2013

Featured in NIH/NIEHS *Environmental Factor*, "Does diet alter damage from environmental exposures". 2012

EDITORIAL BOARDS:

Editor-in-Chief, Journal of Nutritional Biochemistry, 2001-present

Revista Colombiana de Ciencias Pecuarias, 2009-present

Nutrition Research, 2003-present

Current Nutrition & Food Science, 2004-2012

Journal of the American College of Nutrition, 1991-2012

EXTERNAL ADVISORY BOARDS

University of Louisville, Department of Medicine, Pharmacology and Toxicology, Louisville, 2006-present.

University of Iowa Superfund Basic Research Program, University of Iowa, Iowa City, Iowa, 2005-present.

Department of Nutrition, Food and Exercise Sciences, Florida State University, Tallahassee, Florida, 2006-present.

ORGANIZER AND CHAIRPERSON OF CONFERENCES, SYMPOSIA AND WORKSHOPS:

"Developmental/Reproductive Toxicities" (Session Chair), at The 33rd International Symposium on Halogenated Persistent Organic Pollutants and POPs in Daegu, Korea (2013)

AD HOC JOURNAL REVIEWER FOR:

In addition to reviewing all incoming manuscripts for the Journal of Nutritional Biochemistry (about 15 per week), I review manuscripts for other journals at least twice a month.

PROFESSIONAL ORGANIZATIONS:

NATIONAL:

Society of Toxicology, 2001-present

American Society for Nutrition, 1987-present

STATE/LOCAL:

Kentucky Dietetic Association, 1985-present

Bluegrass Dietetic Association, 1988-present

UNIVERSITY SERVICE:

UNIVERSITY:

Member; Toxicology Training Grant Steering Committee, 2009-present

Member; Kentucky Water Resources Research Competitive Grant Review Committee, 2005-present

Member; Nutritional Sciences Graduate Program Committee, 2004-present

RESEARCH GRANTS:

Bold indicates Principal Investigator.

FUNDED - EXTRAMURAL:

NIH (P42): “Nutrition and Superfund Chemical Toxicity” (Competing Renewal). Program Director: B. Hennig; \$12,211,905; 4/1/14-3/31/19.

NIH/NIEHS; “Conference Supplement, Superfund”; **P.I.: B. Hennig**; \$49,500; 4/1/11-3/31/12.

NIH (SEPA-R25): “Fighting with Food: Battling Chemical Toxicity with Good Nutrition” (Collaborative proposal with Miami University). PIs: S. Hershberger, M.B. Genter, K. Dietrich. Co-Investigators: B. Hennig, L. Ormsbee, L. Gaetke. Subcontract: \$176,353; 7/1/11-1/31/16.

NIH; “Implications of caveolae in Tat signaling and integrity of brain endothelium”. P.I.: M. Toborek; Co-Investigators: B. Hennig; E. Smart; H. Zhu; \$1,758,002; 4/1-08-3/31/13.

NIH; “Nutrition and Superfund Chemical Toxicity”. **Program Director: B. Hennig**; \$10,296,028; 4/1/08-3/31/14.

PUBLICATIONS:

REFEREED ARTICLES (in print and in press):

1. Zheng Y, Morris A, Sunkara M, Toborek M, Hennig B. EGCG stimulates Nrf2 and heme oxygenase-1 via caveolin-1 displacement. *J Nutr Biochem*, 23: 163-8, 2012.
2. Han SG, Han SS, Toborek M, Hennig B. EGCG protects endothelial cells against PCB 126-induced inflammation through inhibition of AhR and induction of Nrf2-regulated genes. *Toxicol Appl Pharmacol*, 261: 181-188, 2012.
3. Hennig B, Ormsbee L, McClain C, Watkins BA, Blumberg B, Bachas L, Sanderson W, Thompson C, Suk WA. Nutrition can modulate the toxicity of environmental pollutants: Implications in risk assessment and human health. *Environ Health Perspect*, 120: 771-774, 2012.
4. Zhang B, Chen L, Choi JJ, Hennig B, Toborek M. Cerebrovascular toxicity of PCB153 is enhanced by binding to silica nanoparticles. *J Neuroimmune Pharmacol*, 7: 991-1001, 2012.
5. Park M, Hennig B, Toborek M. Methamphetamine alters occludin expression via NADPH oxidase-induced oxidative insult and intact caveolae. *J Cell Mol Med* 16: 362-375, 2012.
6. Chen L, Choi JJ, Choi YJ, Hennig B, Toborek M. HIV-1 Tat-induced cerebrovascular toxicity is enhanced in mice with amyloid deposits. *Neurobiol Aging* 33: 1579-1590, 2012.
Manuscript featured in the SNIP Newsletters, An Official Newsletter from the Society on NeuroImmune Pharmacology, Winter/Spring 2012.
7. Rashid, CS, Carter LG, Hennig B, Pearson KJ. Perinatal polychlorinated biphenyl 126 exposure alters offspring body composition. *J Pediatr Biochem*, 3: 47-53, 2013.
8. Han SG, Newsome B, Hennig B. Titanium dioxide nanoparticles increase inflammatory responses in vascular endothelial cells. *Toxicology*, 306: 1-8, 2013.
9. Newsome B, Petriello M, Han SG, Murphy MO, Eske KE, Sunkara M, Morris AJ, Hennig B. Green tea diet decreases PCB 126-induced oxidative stress in mice by upregulating antioxidant enzymes. *J Nutr Biochem*, 2: 126-135, 2014
10. Petriello MC, Newsome B, Hennig B. Influence of nutrition in PCB-induced vascular inflammation. *Environ Sci Pollut Res Int* (in press)
11. Eske K, Newsome B, Han SG, Murphy M, Bhattacharyya D, Hennig B. PCB 77 dechlorination products modulate proinflammatory events in vascular endothelial cells. *Environ Sci Pollut Res Int* (in press)
12. Petriello M, Newsome B, Dziubla TD, Hilt JZ, Bhattacharyya D, Hennig B. Modulation of persistent organic pollutant toxicity through nutritional intervention: emerging opportunities in biomedicine and environmental remediation. *Sci Total Environ* (in press)
13. Hofe C, Feng L, Stromberg A, Hennig B, Gaetke L. Fruit and vegetable intake, as reflected by serum carotenoid concentrations, predicts reduced probability of PCB-associated risk for type 2 diabetes: NHANES 2003-2004. *Nutr Res* (in press)
14. Petriello MC, Han SG, Newsome BJ, Hennig B. PCB 126 toxicity is modulated by cross-talk between caveolae and Nrf2 signaling. *Toxicol Appl Pharmacol* (in press)

INVITED SEMINARS AND PRESENTATIONS:

INTERNATIONAL:

“Influence of Nutrition in Mechanisms of PCB Toxicity. The Seventh PCB Workshop, Arcachon, France (2012)

“Nutritional modulation of POP toxicity and implications in risk assessment”. The 33rd International Symposium on Halogenated Persistent Organic Pollutants and POPs in Daegu, Korea (2013)

“Nutritional modulation of the toxicity of Environmental Pollutants”. Satellite Symposium to DOHaD 2013, 8th World Congress on Developmental Origins of Health and Disease in Suntec City, Singapore (2013)

NATIONAL:

“Nutritional Modulation of Environmental Toxicity: Implications in Atherosclerosis”. University of Michigan, Ann Arbor, Michigan (2012)

The Hazel Stiebeling Lecture: “Nutritional Modulation of Environmental Insults: Implications in Inflammatory Diseases”. Florida State University, Tallahassee, Florida (2013)

STATE/LOCAL:

“Dietary Practices and Vulnerability to Environmental Toxicity”. Kentucky Department for Environmental Protection Seminar Series. Frankfort, KY. (2012)

INSTRUCTIONAL ACTIVITIES:

COURSES TAUGHT:

NFS 311

RESEARCH SUPERVISED:

RESEARCH ASSOCIATE:

Dr. S.G. Han, 2010-2013

DOCTORAL STUDENTS:

Michael Petriello (Graduate Center for Toxicology). 2011-present

Received 2-year AHA grant (predoctoral fellowship) in 2013

Received pre-doctoral traineeship (NIH T32ES007266-22) in 2011

Received travel award to attend the SETAC North America 34th Annual Meeting from 17-21 November 2013, in Nashville, TN

Received Graduate Student Travel Support Award from the Society of Toxicology to attend the 53rd Annual SOT Meeting in Phoenix, AZ (2014)

Brad Newsome (Chemistry). 2011-present

Received Integrative Graduate Education and Research Traineeship, The National Science Foundation (2007– Present)

Margaret Murphy (Graduate Center for Nutritional Sciences). 2009-2014

Received OVSOT Charles River Laboratories Best PhD Student Poster Presentation Award in 2011

Katryn Eske (Graduate Center for Nutritional Sciences). 2009-2013

Recipient of Pfizer Predoctoral Fellowship for 2013 (at Annual Experimental Biology Meeting)