



“Inter-Individual Variability in 1,3-Butadiene Metabolism in Human & Mouse Populations”



Gunnar Boysen, PhD

Associate Professor,
Environmental & Occupational Health,
University of Arkansas
for Medical Sciences

Wednesday, May 22nd

12:00 – 1:00 P.M.

Rollins School of Public Health
Claudia Nance Rollins Building, Room 2001

Dr. Boysen’s research interest is in lifestyle-exposure-gene-interactions (LEGI) and how these affect carcinogenesis. He has been studying DNA and protein adducts to understand the internal dose exposures and metabolism, as well as how this is determined by genetic background and modified by nutritional components. Dr. Boysen received his PhD in chemistry from University of Kaiserslautern Germany in 2002 in collaboration with the University of Minnesota Cancer Center in Minneapolis, MN, for work on DNA and protein adducts derived from PAH and tobacco-specific nitrosamines. He then pursued a post-doctoral fellowship at the University of North Carolina using several protein adducts to study species differences in biotransformation of 1,3-butadiene. During this time, he became interested in compound-compound interactions and the effects of co-exposures on carcinogen metabolism. He developed an adductomics tool to enable comprehensive profiling of reactive compounds in mixtures. More recently he has applied his exposures biomarkers to the Collaborative Cross mouse model to better understand inter-individual variability observed in pollution studies.

****Lunch will be served****

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