JOINT SEMINAR ANNOUNCEMENT

from the
Department of Pharmacology and Chemical Biology
and the
Cancer Epidemiology & Prevention Program
of the University of Pittsburgh Cancer Institute

Thursday, January 21, 2016
12:00 - 1:00 pm

UPMC Cancer Pavilion - Herberman Conference Center, Room 202A

“Prevention Trials with Broccoli: Lessons from the Field”

Jed W. Fahey, ScD
Assistant Professor, Johns Hopkins University
School of Medicine
   Medicine, Division of Clinical Pharmacology
   Pharmacology and Molecular Sciences
Bloomberg School of Public Health
   International Health, Center for Human Nutrition

Director, Cullman Chemoprotection Center

Dr. Fahey’s current research addresses the induction by phytochemicals, of cytoprotective, anti-inflammatory, and antioxidant responses in mammalian systems. This work draws on elements of natural product chemistry, enzymology, nutritional epidemiology and clinical research to develop nutritional strategies for chronic disease prevention in humans. Many of these studies deal with the glucosinolates and isothiocyanates found primarily in cruciferous vegetables and in the tropical drumstick tree or Moringa oleifera. He discovered that broccoli sprouts are an exceptionally rich source of inducers of the enzymes that detoxify carcinogens, and developed techniques to detect these inducers and assess their metabolism in humans. More recently, he determined that two of these inducers (sulforaphane from broccoli and another isothiocyanate from Moringa) have potent antibiotic activity against Helicobacter pylori, a causative agent of peptic ulcer disease and stomach cancer. His team discovered that sulforaphane inactivates urease (a major pathogenesis factor of H. pylori) by an apparently independent mechanism. They have developed, characterized, and supplied preparations rich in specific phytochemicals for a large number of animal and clinical studies.

Hosted by: Drs. Thomas Kensler & Jian-Min Yuan
LIGHT REFRESHMENTS PROVIDED
Contact Person: Brooke Spencer
412-864-7861 or spencerbd@upmc.edu