Certificate Program in Environmental Health Sciences

Blanca Himes, PhD

Environmental Health Sciences Core Center: P30 ES013508-18 Translational Research Training Program in Environmental Health Sciences: T32 ES019851-12

http://ceet.upenn.edu/



"What is there that is not poison?

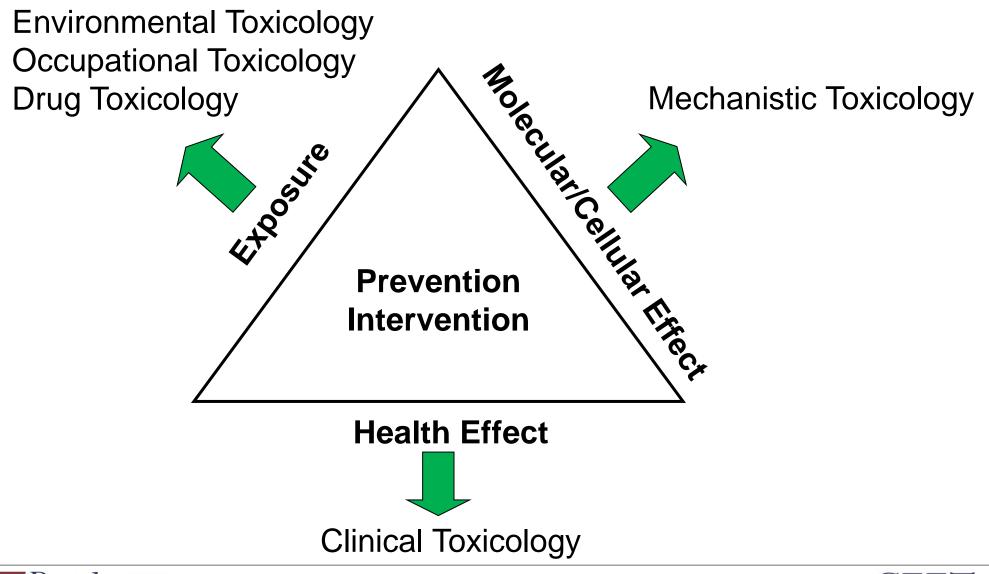
All things are poison and nothing (is) without poison. Solely the dose determines that a thing is a poison."

(Paracelsus 1493-1541)





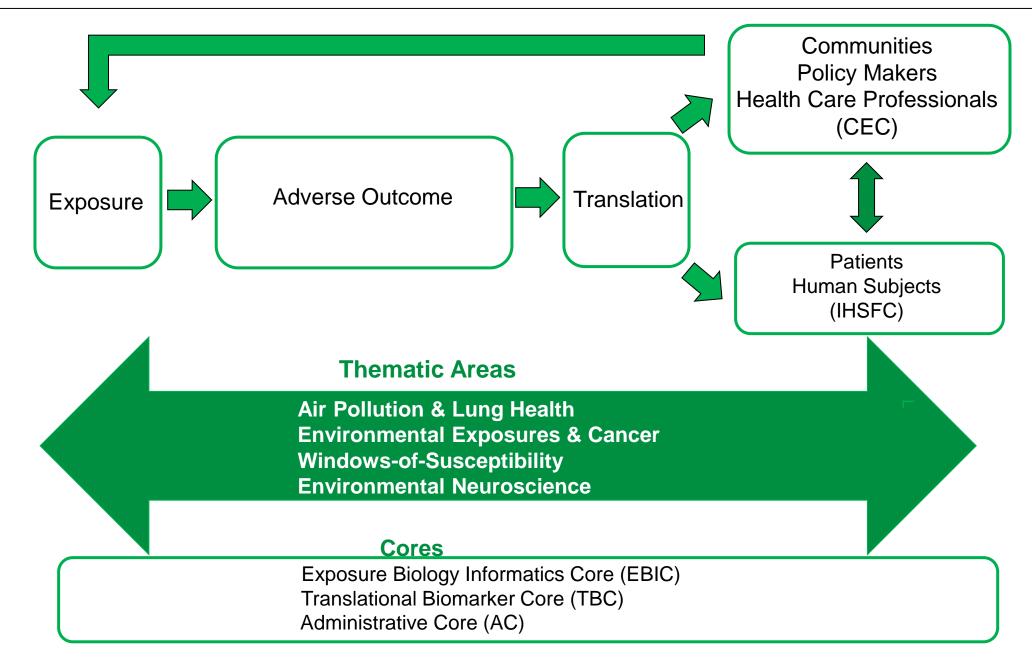
Branches of Toxicology



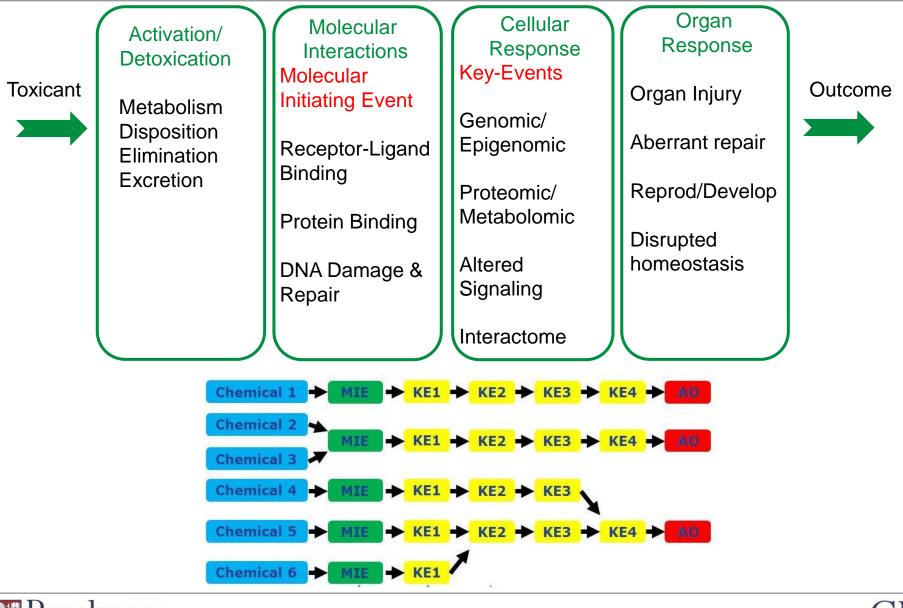




Center of Excellence in Environmental Toxicology (CEET)



Adverse Outcome Network Framework







Exposures and Human Health Studied by CEET



Air Pollution & Lung Health



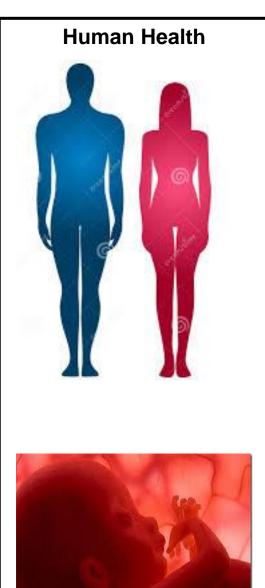


Environmental Exposures & Cancer





Windows-of-Susceptibility



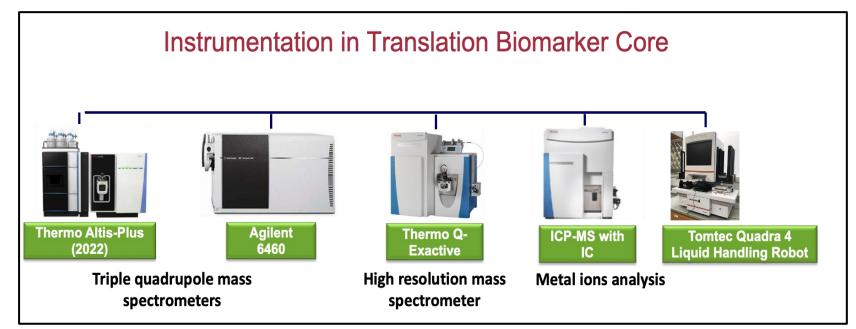




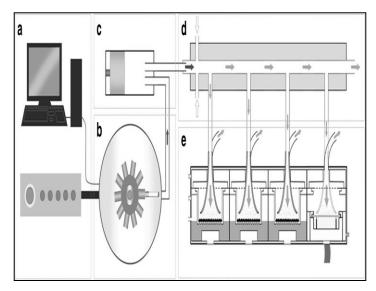
Lead Poisoning & Cognition Environmental Neuroscience



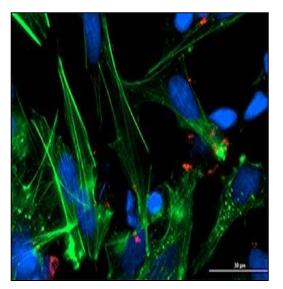
Asbestos Waste Ambler, PA Environmental Exposures & Cancer



Integrative Health Sciences Facility Core





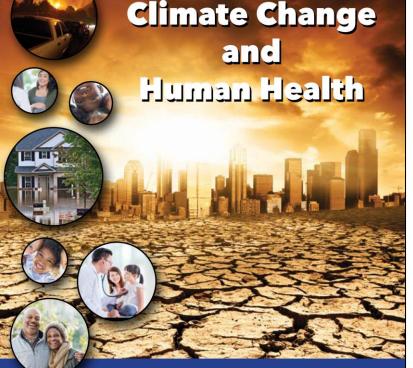


Smoking Machine

Cytation BioTeK Plate Reader

Certificate Program in Environmental Health Sciences







Perelman School of Medicine National Institute of Environmental Health Sciences Abramson Cancer Center Penn Center for Public Health Institute for Translational Medicine and Therapeutics Penn Environmental Innovations Initiative Center for Science, Sustainability, and the Media

SPONSORS

Annual CEET Symposium – 2022

- **Cell Biology** (BGS Requirement)
- **Foundations in Statistics** (BGS Requirement)
 - **Experimental Genome Science** (GCB 5340/PHRM 5340)
 - Molecular Toxicology (PHRM 5900)
- **Environmental Epidemiology** (EPID 7110)
 - Data Science for Biomedical Informatics (BMIN 5030)
 - **CEET-Seminar Series and Symposium**
- Research in Progress Monthly Meeting
- Teen Research & Education in Environmental Science (TREES)
- Course Requirements for Diplomat American Board Toxicology
 - **T32** Training Grant in EHS (T32-ES019851) internships available with EPA, Silent Spring, Research Institute for Fragrance Materials
- □ Three Rotations in EHS, one Community-Based Experience (over 40 faculty across BGS)

Recent Alumni



Nicole Robles Matos



Isabelle Lee



- B.S Chemistry, University of Puerto Rico, Río Piedras
- Matriculated in August 2017
- Created education materials in Spanish about lead exposure in Latino households in partnership with *Puentes de Salud*
- Inclusion, Diversity, Equity and Learner (IDEAL) Research Fellow
- PhD Awarded August 2023
- Elucidating the Epigenetic Mechanisms Involved in the Origins of Adult Metabolic Outcomes Following in utero Di(2-ethylhexyl)phthalate (DEHP) Exposure
- Biologist Air Toxics Assessment Group, EPA
- B.S. Biochemistry, Virginia Polytechnic & State University
- Matriculated in August 2014
- Infographic on Health Disparities Chester Environmental Partnership with Linda Birnbaum (Former Director NIEHS)
- Summer Internship at US EPA Washington, DC
- PhD Awarded November 2019
- The Role of Polycyclic Aromatic Hydrocarbon (PAH) Metabolites in Endometrial Cancer
- Senior Scientist, The Research Institute for Fragrance Materials, Inc. (RIFM)



How to apply?

Certificate Program in Environmental Health Sciences

Administrative Contact

Jenn Kuklinski: jkuklins@pennmedicine.upenn.edu

Training Grant Directors

Blanca Himes, PhD: <u>bhimes@pennmedicine.upenn.edu</u> Trevor Penning, PhD: <u>penning@upenn.edu</u> Becky Simmons, MD: <u>rsimmons@pennmedicine.upenn.edu</u>



