ENVIRONMENTAL SIGNALING IN MEDICINE 2017

Thurs Jan 5, 9:45 AM- Noon
Introduction/Organization/Scope (Collaborative Learning)
Systems Theory/Systems Thinking (External/Internal; Open/Closed)

Mon Jan 9, 1:00-3:00 PM
Signaling and Gene Networks
Environmental Signaling and Epigenetics (Endocrine Disruption as Case study)
Birth Defects/Teratology/And Developmental Origins of Adult Disease

Jan 16 MLK holiday

Mon Jan 23, 1:00 PM
Physiological Signaling and Environment (Sarah Lindsey TUSOM)
Cellular Signaling and Environment

Mon Jan 30, 1:00 PM
Dose Response and Mechanism of Chemical Actions (Charles Miller TUSPHTM)
Metals (Sources/Consequences/Mechanisms)

Mon Feb 6. No class. Exams during the afternoon.

Mon Feb 13, 1:00 PM
Metals and Halogens in water (Sources/Consequences/Mechanisms) (Adrienne Katner LSUSPH)
Fluoridation Movie

Mon Feb 20, 1:00 PM
Structure Activity Relationships in Endocrine Disrupting Chemicals and Signals (Thomas Wiese XU)
Statin Nation

Mon Feb 27 No Class (Lundi Gras Holiday)

Mon March 6, 1:00 PM
DNA repair and mutagenesis (Zachary Pursell TUSOM)
Environment and Microbiome

Mon March 13, 1:00 PM
Environmental and Occupational Medicine (Joseph Lasky TUSOM)
Pharmaceuticals and Pesticides in Water/Drug resistant bacteria/ Dietary Supplements/Folk Remedies

Mon March 20, 1:00 PM
Emerging Infectious Diseases (Dawn Wesson TUSPHTM)
Global Change (Torbjorn Tornqvist TUSSE)

Mon March 27 No class - the day before an exam

Mon April 3, 1:00 PM
Social Determinants of Disease
Trauma and other Environmental Signals and the epigenome
Lead mapping results with students/Environment and Health Brainstorming Plans

Mon April 10, 1:00 PM
Global Change and Human Health/ Emerging Diseases: Environmental Contributions?
(Class facilitated brainstorming)

Tues April 18, 9:45 AM
Summary – Environmental Signaling and Health – Elevator talks by each student (Class)