HEEDS EDC-North Carolina Working Group
Fourth Annual Scientific Meeting
Friday, March 22, 2024
Rodbell Auditorium, National Institute of Environmental Health Sciences

8:30 am  Welcome and Introduction
Jerry Heindel, Director, Healthy Environment and Endocrine Disruptor Strategies (HEEDS)

8:35 am  Keynote: Joseph Bundy, EPA
Artificial intelligence: The good, bad and ugly

9:15 am  Session I: EDCs and the Placenta (15 minute presentations and 5 min discussion)
Session Chair: Erin McNell, NIH
Anastasia Natalie Freedman, UNC: Two is not better than one: Exploring the effects of coexposure to inorganic arsenic and manganese on placental trophoblasts
Balaji Rao, NCSU: In vitro models for human placental development: The devil is in the details
Bevin Blake, EPA: Transcriptomic and pathway alterations in mouse placenta following exposure to PFAS

10:15 am  Break

10:40 am  Session II: EDCs and Disease/Dysfunction
Session Chair: Diana Pacyga, UNC
Ciro Amato, NIEHS: Anti-androgen exposure derails chromatin accessibility and gene expression in the developing mouse penis
Mary Gilbert, EPA: Thyroid system disruption: Filling the gaps from in vitro screens to developmental neurotoxicity in a mammalian system
Emily Werder, UNC: Early life phthalate exposures and child brain development before age five

11:45-1:45 Lunch (box lunches provided, NIEHS cafeteria) and Poster Session
12-12:45 Poster session A: Posters 1-20
12:45-1:40 Poster session B: Posters 20-40
1:45 pm  **Session III: PFAS Toxicity**  
Session Chair: Schaza Gaballah, Duke  
**Jessie Buckley, UNC:** Developmental PFAS exposure and bone health: mixtures and modifiers  
**Hannah Starnes, NCSU:** Coupling in vitro machine learning methods to evaluate albumin binding of PFAS  
**Brittany Ricard, UNC:** photochemical targeting of PFAS-induced platinum resistance in ovarian cancer  

2:45 pm  **Break**  

3:10 pm  **Session IV: Metabolism Disruptors and Obesity**  
Session Chair: Andrew Newell, NCSU  
**Bingshen Shang, UNC:** Sex-specific transgenerational effects of preconception exposure to arsenic  
**Danielle Stevens, NIEHS:** Environmental phenols and growth in infancy  
**Thomas Jackson, EPA:** Exploring maternal and developmental toxicity of perfluoroalkyl ether acids using hepatic transcriptomics and serum metabolomics  

4:45 pm  **Announcement of poster awards**  

5:00 pm  **Joint Social Hour With SOT-NC:**  
JOIN US FOR FREE FOOD AND DRINKS  
Tobacco Wood Brewing, 2500 Meridian Parkway, Durham