



**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
Balajii 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

