

Frontiers in Environmental Science and Health

June 2-8, 2024

Morehouse School of Medicine

June 2 th	Course Introduction (At Hotel)
4:45-5:15 pm	Welcome Remarks and Course Overview Winston Thompson, PhD, Morehouse School of Medicine
5:15-6:00 pm	Dinner (provided)
6:00-6:45 pm	Lecture : Health Disparities, Diversity and Inclusiveness Training Walter Conwell, MD, Morehouse School of Medicine
6:45-7:30 pm	Lecture: Responsible Conduct in Research and Scientific Ethics Jonathan K. Stiles, PhD, Morehouse School of Medicine

June 3 th	Obesity and Health Disparities (All lectures will be held in the Pavilion 220/222 AB & Labs B244)
9:00-9:30 am	Opening Remarks Dr. Rick Kittles, Senior VP for Research, Morehouse School of Medicine
9:30-10:00 am	Lecture : Can Genomic Advances Add Value to Public Health Promotion? The Case of Podoconiosis Colleen McBride, PhD, Emory University
10:00-10:30 am	Coffee break
10:30-11:00 am	Lecture : Dietary Patterns and Assisted Reproduction Outcomes Audrey Gaskins, Sc.D., Emory University
11:00-11:30 am	Lab Pre-Lecture : Measuring DNA methylation changes in sperm samples from rhesus macaque before and after irradiation therapy Chas Easley, PhD, University of Georgia
11:30-1:00 pm	Lunch (provided)
1:00-6:00 pm	Lab Session: Measuring DNA methylation changes in sperm samples from rhesus macaque before and after irradiation therapy



University of Georgia

6:00 pm Dinner on own

9:00-9:30 am

June 4 th	Air Pollution Impacts on Human Health (All lectures will be held in the Pavilion 220/222 AB & Labs B244)
9:00-9:30 am	Lecture: Traffic Pollution, Health, and the Theory of Everything: Molecular Approaches for Characterizing Air Pollution Exposure and Response Jeremy Sarnat, Sc.D., Emory University
9:30-10:00 am	Lecture: Pollution Disparities, Cancer, and Adverse Birth Outcomes in Louisiana Kimberly Terrell, PhD, Tulane University Gianna St. Julien, PhD, Tulane University
10:00-10:30 am	Coffee break
10:30-11:00 am	Lecture : Household Air Pollution and Respiratory Disease: Intervention Trials and Tribulations John McCracken, PhD, University of Georgia
11:00-11:30 am	Lecture : Mapping the Single-Cell Omics Landscape: New Insights into Exposure and Health Xin Hu, PhD, Emory University
11:30-12:30 pm	Lunch (provided)
12:30-1:00 pm	Lab Pre-Lecture: Single Cell Multiomics (RNAseq and ATACseq) Roja Kolluru, 10x Genomics
1:00-6:00 pm	Lab Session: Single Cell Mulitomics (RNAseq and ATACseq) Roja Kolluru, 10x Genomics
6:00 pm	Dinner on own
June 5 th	Ubiquitous Pollutants and Lifestyle Choices and Their Impacts on Human Health (All lectures will be held in the Pavilion 220/222 AB & Labs B244)



Lecture: Use of High-resolution Metabolomics for the Identification of

Metabolic Signals Associated with Ubiquitous Pollutants

	Zach Jerrell, PhD, Emory University
9:30-10:00 am	Lecture : In Vitro and In Vivo Techniques to Evaluate Neurotoxicity and Neurological Disease Michael Caudle, PhD, Emory University Rollins School of Public Health
10:00-10:30 am	Coffee break
10:30-11:00 am	Virtual Lecture: Impacts of THC use and male reproductive health Jamie Lo, MD, Oregon Health Sciences University
11:00-11:30 am	Virtual Lecture: The effects of preconception and prenatal THC use Jamie Lo, MD, Oregon Health Sciences University
11:30-12:30 pm	Lunch (provided)
12:30-1:00 pm	Lab Pre-Lecture: Exposure and toxicity Chas Easley, PhD, University of Georgia
1:00-6:00 pm	Lab Session: Exposure and toxicity Chas Easley, PhD, University of Georgia, Beth Waters, PhD Student University of Georgia
6:00 pm	Dinner on own

June 6 th	Pollution Impacts on Human Health (All lectures will be held in the Pavilion 220/222 AB & Labs B244)
9:00-9:30 am	Lecture: Water Quality and Human Health: Exploring Water Quality to Eliminate Environmental Injustice and Health Disparities Ethell Vereen, PhD, Morehouse
9:30-10:00 am	Lecture: Making Gender Visible in Global Water, Sanitation, and Hygiene (WASH) Research and Programming Bethany Caruso, PhD, Emory University
10:00-10:30 am	Coffee break
10:30-11:00 am	Lecture: Wastewater based epidemiology (WBE) Carter Coleman, PhD Student, University of Georgia
11:00-12:00 pm	Keynote Address: Exposomics: pursuing environmental health sciences at an -omic scale Gary Miller, PhD, Columbia University
12:00-1:00 pm	Lunch (provided)
1:00 pm	Free afternoon to explore Atlanta



June 7th Maternal/Fetal Health and Lifetime Exposure Effects on Human Health (All lectures will be held in the Pavilion 220/222 AB & Labs B244) **Lecture:** Environmental Exposures and Pathways to Adverse 9:00-9:45 am Pregnancy Outcomes in the Atlanta African American Maternal-Child Cohort Anne Dunlop, MD, Emory University 9:45-10:30 am Coffee Break 10:30-11:15 am Lecture: Soy isoflavones act as endocrine-disrupting chemicals in the male gonad Benson Akingbemi, DVM, PhD Auburn University 11:15-12:30 pm Lunch (provided) 12:30-2:30 pm Panel Discussion: Career planning and strategies for careers in Environmental Health Science, Mentorship Guidance in Career Development Winston Thompson, Morehouse School of Medicine, Yvonne Maddox, President and CEO TA Thornton Foundation, Gerald Schatten, University of Pittsburgh, and Charles Easley, University of Georgia Closing Ceremony Dinner (provided) at Hotel 6:00-8:00pm Certificate of Participation Winston Thompson, PhD-Morehouse School of Medicine, Gerald Schatten, PhD-University of Pittsburgh, and Charles Easley, PhD-

University of Georgia

June 8th Depart

