



# Environmental Health in Africa: Opportunities to Expand Research Capacity in the H3Africa Consortium

Workshop Preceding the 12th Human Heredity and Health in Africa (H3Africa) Consortium Meeting

**Sunday, September 16, 2018**

**Kigali, Rwanda**

## AGENDA

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|---|---|-----------------|
| <b>8:00 – 8:15 a.m.</b>                                   | <b>Welcome</b><br><i>Gwen Collman, Director of NIEHS Division of Extramural Research and Training</i>   | <b>Room MH1</b> |
|   | <b>Charge of the Workshop</b><br><i>Kim McAllister and Bonnie Joubert, NIEHS</i>  |                 |
| <b>8:15 – 8:30 a.m.</b>                                   | <b>History and Directions of the H3Africa Consortium</b><br><i>Michelle Skelton, University of Cape Town</i>  |                 |
| <b>Global Environmental and Occupational (GEO) Health</b> |   | <b>Room MH1</b> |
| <b>8:30 – 9:00 a.m.</b>                                   | <b>The Michigan-West Africa GEOHealth Hub: Environmental Exposures Due to Informal E-waste Recycling Activities and the Health of Workers</b><br><i>Julius Fobil, University of Ghana</i><br><i>Exposure Focus: Electronic Waste</i>          |                 |
| <b>9:00 – 9:30 a.m.</b>                                   | <b>East Africa GEOHealth Hub (Ethiopia): Ambient Air Pollution Exposure and Child Respiratory Health in Ethiopia, Uganda, Rwanda, and Kenya</b><br><i>Abera Kumie, Addis Ababa University</i><br><i>Exposure Focus: Ambient Air Pollution</i> |                 |
| <b>Biomarkers and Mechanisms</b>                          |   | <b>Room MH1</b> |
| <b>9:30 – 10:00 a.m.</b>                                  | <b>Mycotoxin Biomarkers and Children's Health in Africa: Translation of Basic Research to Public Health Prevention</b><br><i>Joshua Smith, Johns Hopkins University</i><br><i>Exposure Focus: Mold</i>  |                 |
| <b>10:00 – 10:15 a.m.</b>                                 | <b>Break</b>  |                 |
| <b>10:15 – 10:45 a.m.</b>                                 | <b>Heavy Metal Exposure and Cardiometabolic Phenotypes</b><br><i>Cathrine Hoyo, North Carolina State University</i><br><i>Exposure Focus: Metals</i>  |                 |
| <b>10:45 – 11:15 a.m.</b>                                 | <b>Toxicodietary and Genetic Determinants of Susceptibility to Neurodegeneration in the Congo</b><br><i>Daniel Tshala-Katumbay, Oregon Health Sciences University</i><br><i>Exposure Focus: Nutrition</i>                                     |                 |



**Environmental Exposures and Infectious Disease**

**Room MH1**

**11:15 – 11:45 a.m. Indoor Residual Spraying for Malaria Control and Child Development in the South African VHEMBE Birth Cohort**  
*Jonathan Chevrier, McGill University, ISEE Africa Chapter*  
**Exposure Focus: Pesticides**

**11:45 a.m. – 12:15 p.m. Trace Elements and Risk of Severe Malaria and Neurodevelopmental Impairment**  
*Chandy John, Indiana University*  
**Exposure Focus: Biomarkers of Exposure and Inflammation**

**12:15 – 1:30 p.m. Lunch (On Your Own)**  
**Poster Presentations**

**Foyer 1C**

**Research Needs**

**Room MH1**

**1:30 – 1:50 p.m. Report Back From Workshop Participant Survey; Aims for Breakout Group Discussions**  
*Bonnie Joubert and Kim McAllister, NIEHS*

**1:50 – 2:00 p.m. Transition to Breakout Group Rooms**

**2:00 – 3:15 p.m. Breakout Group Discussions**  
*Electronic Waste . . . . . Room AD4*  
*Ambient and Indoor Air Pollution (including Tobacco Smoke) . . . . . Room MH1*  
*Metals and Mycotoxins. . . . . Room AD11*  
*Pesticides and Nutrition/Toxicodietary Exposures . . . . . Room AD10*  
*Biomarkers of Chemical Exposures and Infectious Disease . . . . . Room AD12*

**3:15 – 3:30 p.m. Break and Transition Back to Main Room**

**Panel Discussion with Report Back From Breakout Groups**

**Room MH1**

**3:30 – 5:00 p.m. Panelists and Breakout Group Leads**  
*Mark Nicol, University of Cape Town*  
*Michele Ramsay, Wits University*  
*Kiros Berhane, University of Southern California*  
*Brenda Eskenazi, University of California, Berkeley*  
*Adrie Steyn, Africa Health Research Institute*

**5:00 – 5:10 p.m. Closing Remarks**  
*Gwen Collman, NIEHS*