

Symposium Theme:

“Human Genomic Diversity and Medicine: Challenges and Solutions to Reduce Health Disparities”

Co-Sponsored by the Center for Global Genomics & Health Equity and the Institute for Biomedical Informatics at the University of Pennsylvania Perelman School of Medicine

Monday, May 22 and Tuesday, May 23, 2023 at 12:00PM to 4:30PM

Smilow Center for Translational Research Auditorium, 3400 Civic Center Boulevard, Philadelphia, PA 19104

Monday, May 22 (Day 1): Patterns of Genetic Diversity and Implications for Disease Risk

12:00 – 12:45PM

Lunch

12:45 – 12:50PM

Welcome and Introduction: J. Larry Jameson, MD, PhD, Executive Vice President at the University of Pennsylvania Health System, and Dean of the Perelman School of Medicine

12:50 – 1:00PM

Sarah Tishkoff, PhD, Introduction to the Center for Global Genomics & Health Equity at Penn

1:00 – 2:00PM

Speakers: Moderator, M. Susan Lindee, PhD

Theme 1: History of Racial Classifications and Challenges of Use in Genomics Research

- **1:00 – 1:20PM**, Dorothy E. Roberts, JD, (UPenn), *“Ending the Legacy of Race and Racism in Genomics Research”*
- **1:20 – 1:40PM**, Vence L. Bonham, Jr., JD, (NHGRI, NIH), *“Population Descriptors in Genomics Research: Translation to Clinical Care”*
- **1:40 – 2:00PM**, Sandra Soo-Jin Lee, PhD, (Columbia University) *“The Ethics of Inclusion: Conceptions of Diversity in Genomics”*

2:00 – 2:30PM

Discussion

2:30 – 3:00PM

Break/coffee

3:00 – 4:00PM

Speakers: Moderator, Sarah Tishkoff, PhD

Theme 2: Patterns of Genetic Diversity, Genetic Ancestry, and Implications for Research in Complex Disease

- **3:00 – 3:20PM**, Iain Mathieson, PhD, (UPenn), *“What is ancestry?”*
- **3:20 – 3:40PM**, John Novembre, PhD, (UChicago), *“Patterns and implications of geographic structure in human genetic variation”*
- **3:40 – 4:00PM**, Li-San Wang, PhD, (UPenn), *“Asian Cohort for Alzheimer's Disease (ACAD)”*

4:00 – 4:30PM

Discussion

4:30PM

Reception

Tuesday, May 23 (Day 2): The Role of Genetics and Environment on Health Disparities

12:00 – 12:45PM

Lunch

12:45 – 12:50PM

Introduction: Jonathan A. Epstein, MD, Executive Vice Dean and Chief Scientific Officer at the Perelman School of Medicine, and Senior Vice President and Chief Scientific Officer at the University of Pennsylvania Health System

12:50 – 1:00PM

Marylyn D Ritchie, PhD, FACMI, Introduction to the Institute for Biomedical Informatics at Penn

1:00 – 2:00PM

Speakers: Moderator, Marylyn D. Ritchie, PhD, FACMI

Theme 3: The Role of Genetics and Environment on Health Disparities

- **1:00 – 1:20PM**, Scott M. Williams, PhD, (Case Western), *“Gene by Environment Interaction and Risk of Gastric Cancer in Honduras”*
- **1:20 – 1:40PM**, Francesca Luca, PhD, (Wayne State University), *“Genetic and Environmental Determinants of Gene Regulation and Health in Urban Communities”*
- **1:40 – 2:00PM**, Genevieve L. Wojcik, PhD, (Johns Hopkins), *“Genes, Environment, and Ancestry, Oh My! The Road to Better Estimation of Risk in Admixed Groups”*

2:00 – 2:30PM

Discussion

2:30 – 3:00PM

Break/coffee

3:00 – 4:00PM

Speakers: Moderator, Mary Regina Boland, PhD

Theme 4: Systemic Bias and Issues Driving Health Disparities in Electronic Health Records and Biobanks

- **3:00 – 3:20PM**, Akinyemi Oni-Orisan, PharmD, PhD, (UCSF), *“Advancing Pharmacogenetics Through a Pharmacoequity Lens”*
- **3:20 – 3:40PM**, Dana C. Crawford, PhD, (Case Western), *“Health Record Wrangling for Genomics: Challenges and Opportunities for Diverse Populations”*
- **3:40 – 4:00PM**, Shefali Setia Verma, PhD, (UPenn), *“Empowering Women’s Health through Precision Medicine”*

4:00 – 4:30PM

Discussion

4:30PM

Concluding Remarks: Sarah Tishkoff, PhD and Marylyn D. Ritchie, PhD, FACMI