



Symposium Theme:
“Inclusive Genomics to Promote Health Excellence”

Co-sponsored by the Center for Global Genomics and Health Equity and the Center for Computational Biomedicine at the University of Pennsylvania Perelman School of Medicine

Wednesday, May 14, 2025 – Thursday, May 15, 2025

Biomedical Research Building (BRB) Gaulton Auditorium, 421 Curie Boulevard, Philadelphia, PA 19104

Wednesday, May 14: (Day 1): Population Genomics and Health Risk

12:00 – 12:05PM **Welcome and Introduction (E. Michael Ostap, PhD, Professor of Physiology, Interim Senior Vice Dean and Chief Scientific Officer, Perelman School of Medicine at University of Pennsylvania)**

12:05 – 12:15PM Sarah Tishkoff, PhD, Introduction to the Center for Global Genomics & Health Equity at Penn

12:15 – 1:45PM **Speakers and Discussion Theme 1**

Theme 1: Leveraging Global Variation for Equitable Global Health

- **12:15-12:45PM**, Glennis Logsdon, PhD (University of Pennsylvania), ***“Genetic, epigenetic, and functional diversity of human centromeres”***
- **12:45-1:15PM**, Charles Lee, FRSC (The Jackson Laboratory), ***“Genetic variation on the Y chromosome across 180,000 years of human evolution”***
- **1:15-1:45PM**, Evan Eichler, PhD (University of Washington), ***“Complete human genomes and the complexity of genome structural diversity”***

1:45 – 2:15PM Discussion with Moderator (Sarah Tishkoff, PhD)

2:15 – 2:45PM Break/coffee/refreshments

2:45 – 4:15PM **Speakers and Discussion Theme 2**

Theme 2: Impact of Demographic History and Natural Selection on Genomic Variation and Health Risk

- **2:45-3:15PM**, Mashaal Sohail, PhD (National Autonomous University of Mexico), ***“The multi-scale complexity of human genetic variation beyond continental groups”***
- **3:15-3:45PM**, Omer Gokcumen, PhD (SUNY Buffalo), ***“From the Andes to the Lab Bench: Integrating Genomic, Evolutionary, and Functional Perspectives on amylase gene variation”***
- **3:45-4:15PM**, Anna C. F. Lewis, DPhil (Harvard Medical School), ***“Equity and the development, validation, and implementation of polygenic risk scores”***

4:15 – 4:45PM Discussion with Moderator (Iain Mathieson, PhD)

4:45PM Closing remarks followed by reception/light refreshments

Thursday, May 15: (Day 2):

Genomic Variation and Precision Medicine

12:00 – 12:05PM **Welcome and Introduction: Daniel J. Rader, MD, Seymour Gray Professor of Molecular Medicine, Chair Department of Genetics, Perelman School of Medicine at University of Pennsylvania)**

12:05 – 12:15PM Bogdan Pasaniuc, PhD, Introduction to the Center for Computational Biomedicine

12:15 – 1:45PM **Speakers and Discussion Theme 3**

Theme 3: Genomic Variation Enables Equitable Precision Medicine

- **12:15-12:45PM**, Eimear Kenny, PhD (Icahn School of Medicine at Mount Sinai), ***“Population Genetics in an era of Genomic Health”***
- **12:45-1:15PM**, Amadou Gaye, PhD, MSc, BSc (Meharry Medical College), ***“The Role of Genomic Diversity in Reducing Disease Disparities”***
- **1:15-1:45PM**, Daniel Geschwind, MD, PhD (University of California, Los Angeles), ***“Building a diverse biobank in Los Angeles — The UCLA ATLAS Community Health Initiative”***

1:45 - 2:15PM Discussion with Moderator (Bogdan Pasaniuc, PhD)

2:15 – 2:45PM Break/coffee/refreshments

2:45 – 4:15PM **Speakers and Discussion Theme 4**

Theme 4: Equity in Polygenic Prediction

- **2:45-3:15PM**, Jibril Hirbo (Vanderbilt University Medical School), ***“Inequities in clinical healthcare: what has lack of representation and models got to do with it?”***
- **3:15-3:45PM**, Alicia R. Martin, PhD (Harvard Medical School), ***“Genomics for the world: a comprehensive framework for genetic studies in diverse populations”***
- **3:45-4:15PM**, Elizabeth Atkinson, PhD (Baylor College of Medicine), ***“Empowering gene discovery and accelerating clinical translation for diverse admixed populations”***

4:15 – 4:45PM Discussion with Moderator (Bogdan Pasaniuc, PhD)

4:45PM Closing remarks followed by reception/light refreshments