

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Leveraging Genomic Diversity to Promote Animal and Human Health (S5)

November 25-29, 2018 • Speke Resort & Conference Centre • Kampala, Uganda

Scientific Organizers: Michèle Ramsay, Han Brunner and Appolinaire Djikeng

Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

Global Health Travel Award Deadline: June 26, 2018 / Abstract & Scholarship Deadline: July 25, 2018 / Abstract Deadline: August 23, 2018 / Discounted Registration Deadline: September 25, 2018

SUNDAY, NOVEMBER 25

Arrival and Registration

MONDAY, NOVEMBER 26

Welcome and Keynote Address

Bill Gates†, Bill & Melinda Gates Foundation, USA

Genomic Diversity in Health

Charles N. Rotimi, National Institutes of Health, USA
Global Human Genome Diversity and Health

Speaker to be Announced

Fowzan Sami Alkuraya†, King Faisal Specialist Hospital and Research Center, Saudi Arabia
The Morbid Genome and Differences in High and Low Consanguinity Populations

Short Talk(s) Chosen from Abstracts

Workshop 1: Simple Genomic Solutions for a Complex World

Short Talks Chosen from Abstracts

Human Translational Genomics

Han G. Brunner, Radboud UMC, Netherlands
The Use of Genomics in Diagnosing Mendelian Diseases

Adrienne M. Flanagan†, Royal National Orthopaedic Hospital Trust, UK
Cancer Genomics and Translation

Speaker to be Announced

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, NOVEMBER 27

Livestock Translational Genomics

Michel A.J. Georges, University of Liège, Belgium
Translation of Animal Genomics to Health: European Perspective

Susan J. Lamont, Iowa State University, USA
Genomics to Enhance Poultry Health Using Biodiversity

Speaker to be Announced

Appolinaire Djikeng, Centre for Tropical Livestock Genetics and Health, University of Edinburgh, UK
Development of Genomics-Based Tools and Resources for Tropical Animal Productivity and Resilience

Short Talk(s) Chosen from Abstracts

Technological Innovations for Tomorrow

Christian T. Happi, Redeemer's University, Nigeria
Genomics in Stemming the Tide of Infectious Epidemics

Bruce Whitelaw, University of Edinburgh, UK
Genome Editing could make all Animal Sequence Information Usable

Speaker to be Announced

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, NOVEMBER 28

Solutions for Implementation of Genomic Tests

Farai C. Muchadeyi, Agricultural Research Council, South Africa
Landscape Genomics as a Tool to Understand Genetic Adaptation to Local Conditions

John M. Hickey, University of Edinburgh, UK
Modern Breeding Programs for Local and Global Economies

Collen Masimirembwa, African Institute of Biomedical Science and Technology, Zimbabwe
Implementation of Pharmacogenomic Interventions in Sub-Saharan Africa

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Synergies – Role of Genomics in Animal and Human Health

Karen E. Nelson, J. Craig Venter Institute, USA
Microbiomes and Implications to Animal and Human Health

Speaker to be Announced

Michèle Ramsay, University of Witwatersrand, South Africa
Enhancing Genomic Research in Africa

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, NOVEMBER 29

Enablers for Translational Genomics

Evan E. Eichler†, HHMI/University of Washington, USA
Evolutionary Perspectives on Human and Animal Diversity

Niklas Blomberg, Elixir, UK
Global Data Infrastructure for the Scientific Enterprise

Bassirou Bonfoh, Afrique One-African Science Partnership for Intervention Research Excellence, Côte D'Ivoire
Zoonotic Diseases Control - Emerging Technological Approaches for Human and Animal Scientists

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Workshop 2: Ethical Dilemmas in the Application of Genomics to Health

Short Talks Chosen from Abstracts

Toward a Perfect World - Emerging Themes

Elizabeth Marincola, African Academy of Sciences, Kenya
Growing African Science on the World Stage: A View from the African Academy of Sciences

Speaker to be Announced

Speaker to be Announced

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

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FRIDAY, NOVEMBER 30

Departure