

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

One Million Genomes: From Discovery to Health (G1)

June 4-8, 2018 • Herrenhausen Palace • Hannover, Germany

Scientific Organizers: **Geoffrey S. Ginsburg**, **Teri Manolio** and **Patrick Boon Ooi Tan**

In cooperation with Volkswagen Foundation

Sponsored by AstraZeneca

Abstract & Scholarship Deadline: February 7, 2108 / Abstract Deadline: March 7, 2018 / Discounted Registration Deadline: April 11, 2018

MONDAY, JUNE 4

Arrival and Registration

TUESDAY, JUNE 5

Welcome and Keynote Address

Barack Obama†, Former President of the United States, USA
The U.S. Precision Medicine Initiative

Large-Scale National Sequencing Programs: Implementation to Impact

Qimin Zhan†, Chinese Academy of Medical Sciences, China
The Chinese Precision Medicine Initiative

Andres Metspalu, Estonian Genome Center / University of Tartu, Estonia
The Estonian Genome Project

Gadi Rennert, Technion – Israel Institute of Technology, Israel
Talk Title to be Announced

Brian F. Meyer, King Faisal Specialist Hospital and Research Centre, Saudi Arabia
Saudi Human Genome Program - Addressing Unique Needs of a Population

Michael Gaziano, VA Boston Healthcare System, USA
The Million Veterans Program

Mark Caulfield, William Harvey Research Institute, Queen Mary University of London, UK
Genomics England: 100K UK Genomes

Speaker to be Announced
Iceland

Somatic Sequencing Programs: Biological Insights and Diagnosis

Peter Campbell, Wellcome Trust Sanger Institute, UK
Precision Oncology through International Collaboration and Data Sharing

James R. Lupski, Baylor College of Medicine, USA
Somatic Mosaicism

Patrick Boon Ooi Tan, Genome Institute of Singapore, Singapore
Environmental Agents and Asian-Endemic Cancers
Short Talk Chosen from Abstracts

Poster Session 1

WEDNESDAY, JUNE 6

Implementation Science for Genomic and Precision Medicine

Robyn Ward, University of Queensland, Australia
A National Cancer Genomic Testing Strategy

John EL Wong, National University Health System, Singapore
Challenges of Precision Medicine Implementation in a High Volume Clinical Environment

Kathryn North, Murdoch Childrens Research Institute, University of Melbourne, Australia
Implementing Genomics into Healthcare: A National and Global Perspective

Geoffrey S. Ginsburg, Duke University, USA
A National Network for Implementing Genomic Medicine in Practice (IGNITE)

Short Talk(s) Chosen from Abstracts

International Data Resources Enabling Genomic Medicine

Daniel MacArthur, Massachusetts General Hospital, USA
Databases for Rare Disease

Peter N. Robinson, JAX Genomic Medicine, USA
The Human Phenotype Ontology Project

Erkki Leego, Estonian Genome Center, University of Tartu, Estonia
A National Information Technology Structure for Data Integration

Short Talk Chosen from Abstracts

Poster Session 2

THURSDAY, JUNE 7

The Actionable Genome

Nazneen Rahman, Institute of Cancer Research, UK
Making Genetic Medicine Work

Heidi Rehm, Harvard Medical School, USA
The Clinical Genomics Resource

Stuart A. Cook, Duke-NUS Graduate Medical School Singapore, Singapore
Variation in Cardiac Disease Genes: Location Matters

Teri Manolio, National Institutes of Health, USA
NIH Programs Developing Actionable Genomics

Short Talk(s) Chosen from Abstracts

The Value Proposition for National Sequencing

Joanne Yoong, National University of Singapore, Singapore
Is Precision Medicine Cost Effective? Starting with the Goal in Mind
Speaker to be Announced

Surakameth Mahasirimongkol, Ministry of Public Health, Thailand
Genomics in Clinical Care on a National Scale

Short Talk Chosen from Abstracts

Poster Session 3

FRIDAY, JUNE 8

Pharmacogenomics: The Leading Edge of Genomics Impact in Medicine

Henk-Jan Guchelaar, Leiden University, Netherlands
The Ubiquitous Pharmacogenomics Project

Mary V. Relling, St. Jude Children's Hospital, USA
Clinical Implementation of Pharmacogenetics

Maja Mockenhaupt, Universitätsklinikum Freiburg, Germany
Using Genetics to Prevent Stevens Johnson Syndrome/Toxic Epidermal Necrolysis

Jianjun Liu, Genome Institute of Singapore, Singapore
The SaPHIRE Program. Enabling Adverse Drug Reaction Research in Real-Time

Short Talk(s) Chosen from Abstracts

Use of Large-Scale Bio-Clinical Resources for Drug Discovery

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Alan R. Shuldiner, Regeneron Pharmaceuticals, Inc, USA

Discovery of Novel Drug Targets: The Geisinger-Regeneron

DiscovEHR Collaboration

Anne Wojcicki†, 23andMe, USA

A Consumer Based Genomic Platform for Drug Discovery

Jeong-Sun Seo, Seoul National University and MacroGen, South Korea

100K Asian Genomes with de novo Assembled Reference

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

SATURDAY, JUNE 9

Departure