GET

GENOMES • ENVIRONMENTS • TRAITS

CONFERENCE

A GATHERING OF LEADING THINKERS TO DISCUSS HOW WE MEASURE AND UNDERSTAND HUMAN HEALTH AND APPLY THIS KNOWLEDGE FOR EVERYONE'S BENEFIT.

GET GLOBAL: PERSONAL GENOME PROJECT 10TH ANNIVERSARY

SEPTEMBER 17-19, 2015 at the CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences in Vienna, Austria.

HISTORIC GATHERING

This year we are celebrating the 10th Anniversary of the Personal Genome Project and the 25th anniversary of the launch of the Human Genome Project. Since its inception in 2010, the GET Conference series brings together the pioneers of personal genome sequencing to debate the technical, commercial, and societal impacts of affordable DNA sequencing. In 2015, we find ourselves on the verge of massive-scale population projects, & we'll explore the impact of extraordinary advances in genomic technologies for health & society.

AGENDA

Within a few years **millions of people** will have their **genomic data**. Multiple countries have embarked on **mega-cohort** initiatives aiming to advance **precision medicine** and the health of their populations. What are the opportunities to **realize social benefits** that exceed these **enormous investments**?

YOUR CONTRIBUTION

The conference will be a highly interactive gathering of opinion leaders and creative minds. Please visit the conference website to apply for a personal invitation and/or nominate a colleague who could provide an interesting perspective. With the application form please feel free to submit proposals for short talks pitching new concepts, provocative ideas, etc. that will contribute to the discussion and stimulate our thinking about the genomic future.

APPLY: http://www.getconference.org/apply.html NOMINATE: http://www.getconference.org/nominate.html

SESSIONS

Populations, chaired by Sir John Chisholm (Genomics England). **Technology**, chaired by George Church (Harvard Medical School). **Society**, chaired by Barbara Prainsack (King's College). **Environment**, chaired by Timothy Spector (UK Twin Registry). **Traits,** chaired by Joseph Kvedar (Center for Connected Health).

ABOUT US

Ce-M-M-
Research Center for Molecular Medicine of the Austrian Academy of Sciences

MEDICAL UNIVERSITY OF VIENNA

PersonalGenomes.org

genom austria

Personal Genome Project

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AGENDA & PROGRAM
SEPTEMBER 17TH - 19TH
VIENNA, AUSTRIA

THURSDAY SEPTEMBER 17TH
19:00 Public lecture and reception
Festive Hall of the Austrian Academy of Sciences (historical venue shown in the picture)

FRIDAY SEPTEMBER 18TH
09:00 Session 1: Populations chaired by Sir John Chisholm
Within a few years millions of people will have their genomic data. Multiple countries have embarked on large initiatives aiming to advance precision medicine and the health of their populations. What are the opportunities to realize social benefits that exceed these enormous investments?

13:30 Session 2: Environment chaired by Timothy Spector
Human traits and diseases emerge from a complex interplay of genomes and the environment. Large-scale cohort studies have been instrumental for understanding how environmental exposures such as diet, physical activity, and smoking influence our health. New tools for measuring microbiomes, epigenomes and metabolomes are contributing to new insights about environmental components of human health. What approaches can help us measure important environmental influences of human health so as to maximize the impact of large-scale population genome sequencing and precision medicine initiatives?

15:30 Special Session

SATURDAY SEPTEMBER 19TH
09:00 Session 3: Traits chaired by Joseph Kvedar
DNA sequencing technologies have revolutionized our ability to measure the molecular basis of life. But when it comes to traits, even the pioneers of the Personal Genome Project still have to fill out lengthy, old-fashioned questionnaires?! What does technology have to offer for improved measurement? And how can we use these tools to facilitate research, healthy living, better medicine?

10:45 Session 4: Society chaired by Barbara Prainsack
What does it mean for society when genomic information becomes more broadly available? Which societal trends influence how genomic information is going to be used (or not used) in medicine and beyond? Are there any general lessons to be learned about the relationship between societal developments and technology-driven advances in biomedicine?

15:30 Session 5: Technology chaired by George Church
New technologies are the most important driver of biomedical research and precision medicine. We are currently harvesting the fruits of investments into DNA sequencing technology and IT infrastructure that were initiated 1-2 decades ago. Which prompts the question: Which technologies being developed today do you think are most promising, in need of further investment, such that we are able to reap their benefits for personal health, medicine and society ~10 years from now?

For an updated agenda and complete list of speakers, please see our website: http://www.getconference.org

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GET Global: 10th Anniversary Meeting of the Personal Genome Project
CeMM Research Center for Molecular Medicine in Vienna, Austria
September 17-19, 2015

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OUR COMMUNITY

More than 100 leading thinkers have spoken at GET Conference gatherings over past 5 years, such as:

LUMINARIES: James Watson (Nobel laureate), Wally Gilbert (Nobel laureate), George Church (Franklin laureate), Steven Pinker (Time Magazine's 100 most influential people).

PATHBREAKERS: Stephen Friend (Sage BioNetworks), Rodrigo Martinez (IDEO), Esther Dyson (Investor), Geraldine Hamilton (organ-on-a-chip), Larry Smarr (quantified patient), David Altshuler (Broad Institute), Juhan Sonin (design), Jose Gomez-Marquez (devices).

PIONEERS: Heidi Rehm (molecular dx), Richard Delerins (food + biology), Diana Bianchi (fetal DNA), Anne West (citizen science), Robert Green (newborn genome sequencing), Ryan Phelan (mammoth revival), John Wilbanks (data commons), Deborah Estrin (small data).

EXPLORERS: Svante Pääbo (neanderthal genomics), Rob Knight (human microbiome), Eric Alm (fecal transplants), Rumi Chunara (viral profiling), Ian Lipkin (pathogen surveillance), Andreas Keller (olfactory response), Randy Buckner (connectome), Steve Scherer (copy number variation), Daniel MacArthur (loss of function variation), James Lupski (neuropathies), Holly Menninger (home microbiome), Ting Wu (epigenetics).

LEADERS: Jay Flatley (Illumina), Greg Lucier (Life Technologies), Stefan Roever (Genia), Ira Klein (Aetna), Stephen Quake (Helicos founder), Jonathan Bingham (Google), Rade Drmanac (Complete Genomics), Daniel Vorhaus (Genomics Law Report).

RACONTEURS: Robert Krulwich (Radiolab), Jack Hitt (author), Skip Gates (Faces of America), Carl Zimmer (author/journalist), Alastair Dant (NY Times Interactive), David Ewing Duncan (author), Thomas Goetz (Iodine), Juan Enriquez (biotechonomy), John Lauerman (Bloomberg), Misha Angrist (writer), AJ Jacobs (Global Family Tree).

ADVOCATES: Sharon Terry (Genetic Alliance), Jimmy Lin (rare disease), Madeleine Ball (sharing), Julia Brody (environmental health), Dana Waring (pgED), Jeff Carroll (HDBuzz), Sandra de Castro Buffington (Science in Hollywood, 100 Most Influential Hispanics).

SPONSORS: We are also grateful for previous support from incredible sponsors over the past 5 years, including global leaders such as: Autodesk, Complete Genomics, Genentech, Genia, Google, GSK, Harvard Medical School, IBM, Illumina, InGenuity Systems, Ion Torrent, Isilon Systems, Life Technologies, Microsoft, Personalized Medicine Coalition, Procter & Gamble, Qiagen, Roche, The Franklin Institute, Theragen, Third Rock Ventures, Unilever, University of Pennsylvania, Wyss Institute.

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