

Human Genetics & Genomics

Gordon Research Conference

The Emergent Utility Human Genomics in Clinics, in Populations, and in Homes

Dates

July 9-14, 2017

Location

Stoweflake Conference Center
Stowe, VT

Organizers

Chair:

Carlos Bustamante

Vice Chair:

Nicholas Katsanis

Application Deadline

Applications for this meeting must be submitted by **June 11, 2017**. Please apply early, as some meetings become oversubscribed (full) before this deadline. If the meeting is oversubscribed, it will be stated here. *Note:* Applications for oversubscribed meetings will only be considered by the Conference Chair if more seats become available due to cancellations.

Meeting Description

When our conference began in 1995, Human Genetics and Genomics was largely a small community of investigators positionally cloning genes and mutations underlying Mendelian disorders and/or studying evolutionary patterns using small numbers of genes and markers. The Human Genome project was years away from completion and everyone doing important work in the field fit into a 500 person auditorium. Today, human genetics and genomics has become central to a myriad of fields. Drug discovery is being driven by the hunt for so-called protective loss of function mutations. Direct-to-consumer companies (and similar efforts) give people the tools to retrace their ancestry, learn carrier status for a host of Mendelian disorders, estimate risk for complex disease, and connect with long lost relatives (including biological parents or offspring). Major medical centers (and now even community hospitals) are launching ambitious efforts to genotype (or sequence) their patient population. In short, the future is here. The purpose of our conference is to bring together thought leaders from academia, industry, government, and the non-profit sector, along with students, post-docs, and junior investigators who are building much of this world. Be prepared for spirited debate, and to challenge what you think you know about human genetics and genomics and what it all means for us as investigators, patients, and people.

Related Meeting



This GRC will be held in conjunction with the "**Human Genetics & Genomics**" Gordon Research Seminar (GRS). Those interested in attending both meetings must submit an application for the GRS in addition to an application for the GRC. Refer to the [associated GRS program page](#) for more information.

Contributors



The conference also gratefully acknowledges a contribution from Rescindo Therapeutics.

Preliminary Program

The topics and speakers for the conference sessions are displayed below (*italics denote discussion leaders*). The Conference Chair is currently developing their detailed program, which will include the complete meeting schedule, as well as the talk titles for all speakers. The detailed program will be available by **March 9, 2017**. Please check back for updates.

- **Challenges and Opportunities in Medical Genomics**
(*Genevieve Wojcik / Charles Rotimi / Michael Talkowski*)
- **The Human Genome: Resource, Commodity, or Both?**
(*Gary Churchill / David Goldstein / Marylyn Ritchie*)
- **Our Genomes and How They've Evolved**
(*Christopher Gignoux / Evan Eichler / Eimear Kenny / Elaine Ostrander*)
- **The "Other" Genomes: Microbiomes, Epigenomes, and Other Uncomfortable Truths**
(*Elaine Ostrander / Ami Bhatt / Sharon Plon / Cisca Wijmenga*)
- **Big Data, Precision Medicine, and the Transition from the Clinic to the Laptop**
(*Carlos Bustamante / Nancy Cox / Tuuli Lappalainen*)
- **Functional Genomics: Progress and Questions of Scaling**
(*Michael Talkowski / Gary Churchill / Emmanouil Dermitzakis / Pamela Sklar*)
- **Genomic Therapeutics: Hope, Hype, a Little Bit of Both?**
(*Sekar Kathiresan / Euan Ashley / Susan Slaughaupt*)
- **Integrating Genetics into the Clinic Without Drowning the Doctor**
(*Sharon Plon / Sekar Kathiresan / James Lupski*)
- **Blue Sky and Crystal Balls: Human Genetics and Genomics in 10 Years**
(*Nicholas Katsanis / David Altshuler*)