Genomic Medicine 9

April 19-20, 2016
Silver Spring, MD

Organizing Committee:
Teri Manolio, NHGRI
Carol Bult, The Jackson Laboratory
Howard Jacob, Alpha Hudson Institute for Biotechnology
Genomic Medicine Meeting IX: *Bedside to Bench - Mind the Gaps*

On April 19-20, 2016, the National Human Genome Research Institute (NHGRI) will sponsor its ninth Genomic Medicine meeting - *Genomic Medicine IX: Bedside to Bench - Mind the Gaps* - at the Sheraton Silver Spring Hotel in Silver Spring, Maryland.

GM9 will focus on facilitating bedside to bench research by focusing on one of the most vexing problems in clinical sequencing: characterizing and interpreting variants of uncertain significance (VUS).

**Objectives include to:**

1. Review examples of successful interactions between basic scientists and clinical genomicists and explore what made them successful;
2. Identify ways to enhance interactions between basic scientists and clinical genomicists (aka, the virtuous cycle of bench to bedside and back again);
3. Determine how better to integrate basic science research efforts with clinically important questions, to enhance the exploration of clinical implications of basic discoveries.

From bench to bedside in genomic medicine: Lost in translation?

- Translation from model system to human, and vice versa
- Translation to patients
- Translation to practice

Focus

GM9 will focus on a major challenge to advancing genomic medicine: **characterizing and interpreting the clinical significance of variants of uncertain significance (VUS)**
Objectives

• What makes for successful interactions between basic scientists and clinical genomicists?

• How can the virtuous cycle of “bench to bedside to bench again” be fostered and enhanced?

• How can we achieve better alignment of basic research efforts with clinically important questions?
Topics

• Understanding the functions of VUS and relevance to disease mechanisms
• Prediction and annotation of genomic variant function
• Biomedical ontologies for data and knowledge integration and sharing
• Facilitating bedside-back-to-bench research
• Regulatory hurdles
• Issues with payers
Bench to Bedside….

MEND THE GAPS
Special Thanks

- Rita Chambers, Senior Program Coordinator, Duke University
- Teji Rakhra-Burris, Program Leader, Precision Medicine, Duke University
- Elian (Elle) Silverman, Program Analyst, NHGRI
- Members of the NHGRI Genomic Medicine Working Group