

Functional Genomics and the Path from Genetic Variation to Clinical Translation

2nd Annual Cross-Disciplinary Symposium on the State of Science, Technology, and Capacity at Washington University in St. Louis

Sponsored by the Intellectual and Developmental Disabilities Research Center and St. Louis Children's Hospital

Join us for presentations from campus leaders and an afternoon of discussion regarding the science of functional genomics and opportunity for interdisciplinary collaboration at WUSTL.

Friday, June 16, 2017

1:00-5:00 PM, Moore Auditorium, WUSM-North Building

Reception to follow

Register at: iddrc.wustl.edu/genes

(This event is free. Your registration will help us estimate adequate food and seating.)

Speakers and Topics

Dean David Perlmutter, MD: A Vision for Personalized Medicine at Washington University

F. Sessions Cole, MD: Bottlenecks in Interpretation of Variants of Undiagnosed Disease in Newborns

Session 1: Experimental Validation of Variants

Gary Silverman, MD, PhD: Functional Genomic Assays in *C. elegans*

Lila Solnica-Krezel, PhD: Functional Genomic Assays in Zebrafish

Barak Cohen, PhD: Cell-Based Functional Genomic Assays

Panel Discussion: Matchmaking Clinicians and Scientists for Designing and Performing Functional Genetic Screens. Co-led by **Xiaoxia Cui, PhD, Chris Gurnett, MD, PhD**, and Session 1 Speakers

Session 2: Translating Variant Knowledge from Bench to Bedside (and Back Again)

Nate Stitzel, MD, PhD: Harnessing the Human Clinical Phenotype as an Axis of Validation

Philip Payne, PhD: The Role of Informatics in Leveraging Functional Genomic Information for the Development of Novel Therapies

Susan Dutcher, PhD: Perspectives on the Role of Functional Validation in the Gene Discovery Process

Panel Discussion: Gene Variant Knowledge and an Impending Revolution in Patient Care. Co-led by **Laura Bierut, MD, Jon Heusel, MD, PhD, Dave Spencer, MD, PhD, Don Conrad, PhD**, and Session 2 Speakers