

Colloquium

Uncovering the Functional and Clinical Impact of de novo variants in Rare Disease

Michael Wangler

Baylor College of Medicine, TX

Rare diseases represent opportunities to understand the genetic mechanisms that underlie human health. Our lab uses genomic sequencing, metabolomics and *Drosophila* models to understand rare diseases such as peroxisomal disorders. We have focused on a new group of patients with atypical phenotypes with de novo mutations in peroxisomal genes such as *DNM1L/drpl*. We have also studied a number of de novo mutations for genes like *ACTG2* and *WDR37* in undiagnosed patients. Across these rare disease genes we have observed that the patterns of Arginine codon usage in human genes is a marker for dominant rare disease genes.

Monday, Jan 22nd 2024

14:30 Hrs (Tea / Coffee 14.15 Hrs)

Auditorium, TIFR-H