Jeffrey M. Trent, Ph.D., F.A.C.M.G.
President and Research Director, Translational Genomics Research Institute (TGen)
Professor, City of Hope Medical System

Presentation: 10:45 – 11:15 AM
Q&A: 11:15 – 11:20 AM

Title: Multi-omics Approaches in Precision Cancer Care

This presentation will describe how novel advances in understanding cancer genomes and genetic testing technologies are being translated to the clinic. Illustrations will include the clinical impact of genomic discoveries for diagnostics and treatment of common tumor types in adults and children. The talk will move from description of cutting-edge technologies for characterization of patient and tumor genomes, including CAP/CLIA-CMS approved whole exome/genome and transcriptome sequencing, to novel clinical implementation of other multi-omic tools incorporating proteomics, 3D modeling of organoid cultures, and finally incorporation of AI-based learning systems in support of building the next generation of physician treatment decision tools.