Michael Snyder is the Stanford Ascherman Professor and Chair of Genetics and the Director of the Center of Genomics and Personalized Medicine. He received his Ph.D. training at the California Institute of Technology and carried out postdoctoral training at Stanford University. Dr. Snyder has pioneered the use of “big data” and multiomics to advance scientific discovery and transform healthcare. His laboratory has invented many technologies that are widely used in medicine and research, including methods for characterizing genomes and their products (e.g. RNA-Seq, NGS paired end sequencing, ChIP-Chip and later Chip-Seq, protein arrays, machine learning for disease gene discovery). His application of omics and wearables technologies to perform longitudinal profiling of people when they are healthy and ill is transforming medicine and healthcare. Indeed, his laboratory’s recent work to use smartwatches and wearables to detect illness, including infectious disease such as COVID-19, *prior to symptom onset* is being used by many thousands of people.