

PIONEERS IN BIOMEDICAL RESEARCH SEMINAR

Presented by the Fralin Biomedical Research Institute and sponsored by the institute's Center for Exercise Medicine Research



MICHAEL SNYDER, Ph.D.

Professor, Department of Genetics
Director, Center for Genomics and Personalized Medicine
Stanford Medicine

Disrupting Health Care Using Deep Data and Remote Monitoring

Our present healthcare system focuses on treating people when they are ill rather than keeping them healthy. Dr. Snyder's lab has been using big data and remote monitoring approaches to monitor people while they are healthy to keep them that way and detect disease at its earliest moment presymptomatically. Dr. Snyder's lab uses advanced multiomics technologies (genomics, immunomics, transcriptomics, proteomics, metabolomics, microbiomics) as well as wearables and microsampling for actively monitoring health. Following a group of 109 individuals for over 13 years revealed numerous major health discoveries covering cardiovascular disease, oncology, metabolic health and infectious disease. They also found that individuals have distinct aging patterns that can be measured in an actionable period of time. Finally, they have used wearable devices for early detection of infectious disease, including COVID-19 as well as microsampling for monitoring and improving lifestyle. Dr. Snyder believes that advanced technologies have the potential to transform healthcare and keep people healthy.

OCT. 4, 2024 at 11 a.m.

Room G101 A/B, 4 Riverside Circle
Watch live via Zoom at <https://FralinBioMed.info/PBR-Join>.



FRALIN BIOMEDICAL
RESEARCH INSTITUTE AT VTC
VIRGINIA TECH.