

Computational genomics and immunogenomics of cancer



Abstract: Over the past decade, the computational evaluation of cancer genomics data from next generation sequencing has taken on many aspects, from basic identification of different types of somatic alterations to interpreting aspects of immune microenvironment, and of changes to these due to therapeutic intervention. More recently, groups like our have begun to use these approaches in the clinical translation of genomics, to add precision to diagnosis, prognosis and therapeutic interventions. My lecture will focus on these methods and present their application in the context of both research and clinical translation.

About the Speaker: Elaine Mardis, PhD is co-Executive Director of the Steve and Cindy Rasmussen Institute for Genomic Medicine at Nationwide Children's Hospital and holds the Rasmussen Nationwide Foundation Endowed Chair of Genomic Medicine. She also is Professor of Pediatrics at The Ohio State University College of Medicine. Educated at the University of Oklahoma with a B.S. in Zoology and a Ph.D. in Chemistry and Biochemistry, Dr. Mardis did postgraduate work in industry at BioRad Laboratories. She was a member of the faculty of Washington University School of Medicine from 1993-2016. Dr. Mardis has authored over 350 articles in peer-reviewed journals and has been listed since 2013 as one of the most highly cited researchers in the world by Thompson Reuters. Dr. Mardis was given the Morton K. Schwartz award from the American Association for Clinical Chemistry in 2016 and the Heath Memorial Award from MD Anderson Cancer Center in 2020. Dr. Mardis is the Immediate Past AACR President. She was elected a Fellow of the AACR Academy, and was elected to membership in the National Academy of Medicine in 2019.

Elaine Mardis, PhD
Friday, February 12th, 11:00am-12:00pm
Carmen Zoom