



Dr. Kumaraswamy Naidu Chitralla
Assistant professor
Dept. of Engineering Technology
University of Houston
Houston

Date: Friday, April 12, 2024

Time: 1:00 -- 1:50 pm

Location: D2 Lect 2

Multi-omics Approaches to Unravel Elucidate Molecular Mechanisms Driving Health Disparities in Different Diseases

Abstract: Health disparities among the population groups are a critical issue that affects people across various demographics and socioeconomic backgrounds. Traditionally it is discussed under healthcare and public health but its applicability extends far beyond these realms. In this talk, I will discuss on how we can unravel the genetic and epigenetic mechanisms leading to health disparities among the population with lower socioeconomic status in these human disorders using Bioinformatics, Computational biology, and statistical approaches.

Biography: Dr. Kumaraswamy Naidu Chitralla is currently an Assistant Professor of Biotechnology at the Department of Engineering Technology, University of Houston. He worked as an Assistant Professor and Head for the Bioinformatics Core at Fels Cancer Institute for Personalized Medicine, Temple University before joining UH. Dr. Chitralla received his Ph.D. in Bioinformatics from Sri Venkateswara University in 2015. Dr. Chitralla did his first postdoc at the University of South Carolina and a second postdoc at the National Institute on Aging, NIH. His research mainly focused on Bioinformatics & Computational Biology, Statistical Genetics, Epidemiology, Epigenetics, Cancer Biology, Health Disparities, Neurological Disorders, and Aging. So far, he has published over 56 original research articles, many of which were published in high-impact journals, such as Nature, Nature Genetics, Nature Communications, Cell, EMBO Journal, Cancer Research, Genome Biology, Epigenetics, Clinical Epigenetics, Molecular Psychiatry, Scientific Reports, Blood. In addition, he served as a reviewer at the NIH, and NSF study sections and editorial member for several high-impact journals. He recently received HEALTH-RCMI's Pilot Grant and CITE grant.