



Kurumaraswamy Naidu Chitralla, Ph.D.

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Date Friday, April 3, 2026

Time 12:00 to 1:00 PM

Location CBB 108

Title: *Multi-omics Approaches to elucidate molecular mechanisms contributing to the 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. I will discuss how we can unravel the genetic and epigenetic mechanisms underlying health disparities in populations with lower socioeconomic status in these human disorders using Bioinformatics, Computational biology, and statistical approaches.

Bio: Dr. Kumaraswamy Naidu Chitralla is currently an Assistant Professor of Biotechnology at the Department of Engineering Technology, University of Houston. He holds joint appointments in the Departments of Health Systems and Population Health Sciences, Biomedical Engineering, Electrical, Computer Engineering, and the UH Hewlett Packard Enterprise Data Science Institute. 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 63 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 for the NIH, NSF, AIM-AHEAD, and PCORI study sections and as an editorial member for several high-impact journals.