## Bioinformatics for INFECTIOUS DISEASES

Application of bioinformatics to infectious disease research and the understanding of host-pathogen interactions

Corona | Ebola | Rhino | Tuberculosis | Malaria

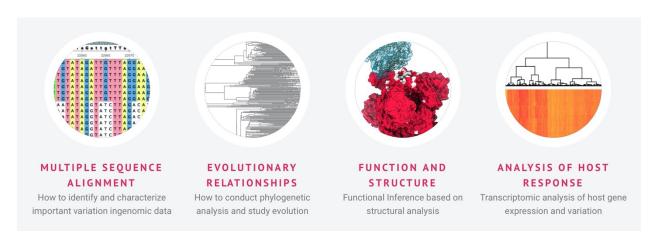
We welcome you to join us for a free webinar on bioinformatics for Infectious Diseases. In this session, we will discuss how genomic data and bioinformatics are being used to study viral and bacterial pathogens and play a major role in the current biomedical research around the COVID-19 pandemic. The webinar is designed for students and faculty interested in methods of analysis, including RNA and DNA sequencing data.

## **October 30, 2020, 1 PM CST, ZOOM**

Registration: https://edu.tbioinfo.com/bioinformatics-for-infectious-diseases-webinar

## Topics we will cover:

- Analysis methods and tools for genomic and transcriptomic data analysis of hostpathogen interaction
- Methods to study relationships based on local and global multiple sequence alignment (MSA)
- Phylogenetic analysis and evolutionary studies used for genome ancestry and population fitness
- Chemical and structural implications of sequence variation mapped on PDB models
- Host-pathogen interaction and treatment response



We will also showcase some of the latest developments on the <u>T-BioInfo platform</u> designed for virology studies and introduce the upcoming <u>Omics Logic training programs</u> for those interested in effective utilization of bioinformatics for infectious diseases, immunology and microbiology.