

Special Issue

Genomic Analysis of Infectious Diseases

Message from the Guest Editor

Infectious diseases are a leading cause of death and a serious concern for the human population globally. The disease is mainly caused by pathogenic microorganisms, like viruses, bacteria, fungi, and parasites, and rarely by Prions. The genomic analysis of infectious disease plays an important role in the detection, identification, genetic variations, prediction of new pathogen emergence, drug resistance, functional element annotation, disease spread, transmission pattern, vaccine development, therapeutics, designing of control measures, and disease management.

The main objectives of this Special Issue are to provide updated information about advanced molecular diagnostic techniques and genomic analysis of infectious diseases. This SI will explore, but is not restricted to, the following topics: Advanced diagnostic technologies for infectious diseases; Genomic analysis of Infectious agents; Bioinformatics-based diagnostic tools for early detection of pathogens; Comparative diagnostics techniques and promotion of optimal practices of infectious diseases; Emergence/ re-emergence of new isolates/strains/variants of pathogens; Metagenomic analysis of infectious diseases.

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