Special Issue

Molecular Genetics & Diagnosis of Infectious Diseases

Message from the Guest Editors

Infectious diseases pose a noteworthy public health risk, and infectious disease epidemics can have significant costs. In such circumstances, molecular diagnostics have important applications in screening and confirmation of asymptomatic infections.

The first step to counter an infection is correct diagnosis, which depends upon important parameters such as assay sensitivity and specificity. These parameters can be used in the evaluation of a newly developed technique, after comparison with a reference gold standard method.

In the last two decades, nucleic acid-based approaches have focused on the detection of either a single pathogen or multiple pathogens in a multiplex assay format. Now, the availability of bench-top sequencers, portable bench-top sequencers, rapid analytical software, on-chip RT-PCR, RT-LAMP, RT-qPCR, NASBA, fluorescence in situ hybridization (FISH), NGS and WGS has helped these methods become user friendly and less complex at a reduced cost, while also having increased sensitivity and specificity. In addition, they have the added benefit of detecting drug resistance genes, quantitative indications under therapy and the emergence of resistant strains.

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Deadline for manuscript submissions

closed (15 June 2023)

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the Genes team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider Genes for your next genetics paper?

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