

Special Issue

Diagnosis and Management of Microbial Infections

Message from the Guest Editor

The diagnosis and management of microbial infections require a multifaceted approach that integrates clinical evaluation, laboratory testing, and targeted treatment strategies. The early identification of causative pathogens through techniques such as culture, PCR, and serology is critical for effective management. Advances in diagnostic technologies, including rapid molecular assays and next-generation sequencing, have significantly enhanced the accuracy and speed of pathogen detection. Effective management includes the use of antimicrobial agents, guided by susceptibility profiles to mitigate resistance development. Comprehensive strategies also emphasize infection prevention, control measures, and patient education to curb the spread of infectious diseases. Patient education is vital, as it encourages adherence to treatment regimens and understanding of preventive practices. Integrating these approaches is essential to improve patient outcomes and protect public health. This holistic approach ensures that infections are promptly and accurately diagnosed, effectively treated, and prevented from spreading, ultimately enhancing overall healthcare efficacy.

Guest Editor

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Deadline for manuscript submissions

29 August 2025



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/206555

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