

Special Issue

Biomarkers, Diagnostic, and Therapeutic Approaches for Mycobacterial Diseases

Message from the Guest Editors

Recent research indicates substantial delays in TB diagnosis. The detection of acid-fast bacilli (AFB), a diagnostic test for pulmonary TB, has limited accuracy. Automated PCR assays offer a faster alternative but are costly and require specialist personnel and equipment. Diagnostic approaches for NTM infections also face several challenges, including non-specific clinical presentations, difficulties in distinguishing true infections from environmental contamination, and limitations in culturing and advanced molecular diagnostics. Therefore, there is a pressing need to develop new diagnostic tools in microbiology, genetics, immunology, omics, and biomedicine. These tools should facilitate the rapid and precise diagnosis of antimycobacterial diseases, considering comorbidities and autoimmune conditions. Our goal is to improve diagnostic pathways and support timely and effective treatment interventions. This Special Issue invites contributions that explore biomarkers, diagnostic innovations, and therapeutic approaches for mycobacterial diseases. We seek research articles, reviews, and case studies that present new insights and advancements in these areas.

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Editor-in-Chief

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