

## Special Issue

# Advances in the Prevention and Treatment of Mycobacterial Diseases

### Message from the Guest Editor

Mycobacterial diseases, including tuberculosis (TB) and infections caused by non-tuberculous mycobacteria (NTM), represent a persistent global health challenge. While TB remains a leading cause of infectious mortality, NTM infections are increasingly prevalent, particularly among immunocompromised individuals and those with chronic pulmonary conditions. The immunological complexity of these diseases, coupled with diagnostic and therapeutic limitations, underscores the urgent need for deeper scientific inquiry. Recent advances in molecular diagnostics, imaging, and host-directed therapies have begun to reshape the clinical landscape. Studies on granuloma biology, fibrosis, and immune gene polymorphisms (e.g., TLRs, ADAM17) have provided new insights into host–pathogen interactions. However, the emergence of multidrug-resistant strains, biofilm formation, and limited vaccine efficacy continue to hinder progress.

We invite original research, reviews, and perspectives that explore immune mechanisms, host–pathogen dynamics, novel therapeutics, and translational approaches.

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### Guest Editor

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### Deadline for manuscript submissions

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