

Special Issue

Mycobacterial Infections: Insights into Pathogenesis, Diagnosis, and Treatment

Message from the Guest Editor

Mycobacterial infections, particularly *Mycobacterium tuberculosis* and *Mycobacterium leprae*, continue to pose significant global health challenges. This Special Issue, “Mycobacterial Infections: Insights into Pathogenesis, Diagnosis, and Treatment”, will explore recent advancements in understanding the molecular mechanisms underlying these infections, their interactions with the host immune system, and emerging diagnostic and therapeutic strategies. Key topics will include the role of virulence factors in disease progression, co-infections with other bacterial or viral pathogens, and the impact of antimicrobial resistance on treatment efficacy. This Special Issue will also highlight novel diagnostic techniques, including molecular and biomarker-based approaches, as well as innovative therapeutic interventions, such as host-directed therapies, vaccine developments, and repurposed drugs. By integrating perspectives from microbiology, immunology, and clinical research, this collection will provide a comprehensive understanding of tuberculosis and leprosy, guiding future strategies for effective disease control and management.

Guest Editor

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Deadline for manuscript submissions

31 March 2026



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/232737

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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