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Biology of Mycobacterial Pathogens

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Deadline for manuscript submissions:
closed (20 May 2025)

Message from the Guest Editors

The Mycobacterium genus includes close to 200 species. Among these are obligate pathogens such as Mycobacterium tuberculosis and Mycobacterium leprae, the causative agents of two diseases that have plagued humans for millennia: tuberculosis and leprosy, respectively. The genus also includes ubiquitous environmental species, collectively referred to as nontuberculous mycobacteria. Mycobacterial infections are difficult to control and eradicate. The rise of drug-resistant strains is a global phenomenon of increasing concern and threatens the control of mycobacterial infections. Comprehensive knowledge of the biology of mycobacterial pathogens is needed to illuminate paths to new and more efficacious therapeutics against mycobacterial infections.

I am pleased to invite colleagues investigating the biology of pathogenic mycobacteria to submit a manuscript to this Special Issue in the form of an original research article. Potential topics include studies on gene function, the regulation of gene expression, primary and secondary metabolism, host–pathogen interaction, determinants of virulence, mechanisms of antibiotic resistance, and mechanisms of antibiotic tolerance.

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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Journal Rank: JCR - Q2 (Microbiology) / CiteScore - Q1 (Infectious Diseases)

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