

Special Issue

Biomolecules in Mycobacterial Pathogenesis, Host–Pathogen Interactions, and Antimicrobial and Therapeutic Approaches

Message from the Guest Editor

Antimicrobial resistance has been identified as one of the ten most serious threats to global health in the present era. Mycobacteria, including the Mycobacterium tuberculosis complex and non-tuberculous mycobacteria, represent a key factor in this threat. There is a general consensus that alternative approaches to antimicrobial therapy must be explored in order to tackle mycobacterial infections. Understanding the complex process of mycobacterial pathogenesis—involving multifaceted interactions between bacterial virulence factors and the host immune system—can help in identifying new drug targets and advancing the development of more effective treatments. The focus of this Special Issue of *Biomolecules* will be the most recent advances in the exploration of the properties and functions of biomolecules (extracellular vehicles, bacteriophages, vaccines, liposomes, bioactive compounds, phytochemicals, and any other molecules) in the context of the pathogenesis of disease at various stages of illness, virulence, the complex interplay between host cells and pathogens, immune responses and disease outcomes, and antibacterial approaches and therapeutic strategies.

Guest Editor

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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