

Special Issue

Recent Advances in Molecular and Cellular Approaches to Tuberculosis Pathogenesis, Treatment and Prevention

Message from the Guest Editor

Tuberculosis (TB), caused by *Mycobacterium tuberculosis* (Mtb), remains one of the most persistent and deadly infectious diseases globally, claiming over a million lives annually. Recent advances in molecular biology, immunology, and nanotechnology have opened new avenues for understanding TB pathogenesis and developing innovative tools for diagnosis, treatment, and prevention. Furthermore, advances in host-directed therapies (HDTs) aim to modulate the immune response to enhance bacterial clearance while minimizing tissue damage, offering a complementary strategy to conventional antibiotics. This proposal seeks to bring together experts in molecular biology, immunology, nanotechnology, pharmacology, and clinical medicine to explore and expand the frontiers of TB research.

We are pleased to invite you to submit articles on the molecular and cellular mechanisms of TB pathogenesis that leverage recent knowledge and insights to design novel diagnostic, therapeutic, and preventive strategies for TB.

Guest Editor

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