

Special Issue

Innovative Approaches to Tuberculosis Screening and Diagnosis

Message from the Guest Editors

Tuberculosis (TB) remains a major global health threat, with 11 million new cases and 1.5 million deaths annually. Nearly three million cases still go undiagnosed each year, impeding global control efforts.

The past 15 years have brought critical advances in diagnostics, including molecular tests, interferon-gamma release assays, and portable chest X-ray systems. Artificial intelligence is now used to interpret imaging and respiratory sounds, particularly in high-burden settings. These innovations coincide with improved treatments for drug-susceptible and resistant TB, and expanded preventive therapy. WHO supports countries in adopting accurate diagnostics and guides development of needed technologies.

This collection highlights dynamic progress in TB screening and diagnosis. We welcome research on molecular diagnostics, biomarkers, immunology, imaging, sound analysis, and AI-assisted detection. Studies on implementation—such as cost-effectiveness, feasibility, accessibility, user acceptance, equity, and linkage to care—for novel screening and diagnostic strategies are also encouraged.

Guest Editors

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