



## Artificial Intelligence in Image-Based Screening and Diagnostics of Pulmonary Tuberculosis

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### Message from the Guest Editors

Early screening and diagnosis play a crucial role in increasing the survival rate of patients with tuberculosis. There are several diagnostic methods, including the slow sputum culture, tissue biopsy analysis, as well as the WHO-recommended Xpert MTB/RIF, Xpert Ultra, and TrueNAT assays. Radiographic imaging methods such as computed tomography (CT) and chest-X-rays (CXRs) are also widely used for screening and diagnosis. Research on using artificial intelligence (AI) and machine learning (ML) methods for image-based screening and diagnostics of pulmonary TB has gained significance because they offer the promise of alleviating the human burden in screening in countries that lack adequate resources.

Through this Special Issue, “Artificial Intelligence in Image-Based Screening and Diagnostics of Pulmonary Tuberculosis”, we aim to include primary research studies and literature reviews focusing on the novel AI/ML methods and their application in the screening and diagnosis of pulmonary MDR- and drug-sensitive TB.





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