

## Special Issue

# Artificial Intelligence in Epidemiological Diagnostics: Advances and Applications

### Message from the Guest Editor

This Special Issue focuses on AI technologies in epidemiological diagnostics addressing complex public health challenges. AI-powered tools enhance large-scale health data interpretation, facilitating early detection, real-time monitoring, and predictive modeling for more accurate diagnostic outcomes. AI transforms diagnostic evidence synthesis by automating systematic reviews and improving evidence-based guideline development with greater efficiency. This Special Issue examines AI-designed peptides and antimicrobial peptides for diagnostic applications. Advanced algorithms now create novel peptide sequences with enhanced pathogen specificity, offering innovative tools for disease surveillance and antimicrobial resistance monitoring. These AI-optimized peptides serve as alternatives to traditional diagnostic antibodies, with improved stability, cost-effectiveness, and accuracy for epidemic preparedness. We welcome research on AI in telemedicine and remote monitoring systems for resource-limited settings. We also explore AI in traditional medicine diagnostics, integrating traditional approaches with modern practices.

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## Diagnostics

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