

Special Issue

Integrated Point-of-Care Testing (POCT) Systems: Recent Progress and Applications

Message from the Guest Editor

Recent advancements in integrated point-of-care testing (POCT) systems have revolutionized medical diagnostics by enabling rapid, decentralized testing at or near the patient's location. Innovations such as nano-diagnostics, molecular technologies, and artificial intelligence (AI)-driven data analytics have enhanced the accuracy, portability, and clinical utility of POCT devices. These systems now support multi-biomarker panels, real-time connectivity to electronic health records (EHRs), and automated decision-making, facilitating immediate clinical interventions in critical conditions like sepsis, myocardial infarction, and infectious diseases (e.g., COVID-19). Regulatory updates, such as the 2025 CLIA guidelines, further standardize proficiency testing and personnel qualifications to ensure reliability. POCT's integration into clinical workflows reduces turnaround times, minimizes manual errors, and improves patient outcomes, particularly in resource-limited settings. Future trends include the expansion of machine learning for personalized diagnostics and the development of cost-effective, user-friendly devices for global healthcare accessibility.

Guest Editor

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