

Special Issue

Point-of-Care Testing (POCT) for Infectious Diseases

Message from the Guest Editor

This Special Issue highlights cutting-edge advances in point-of-care testing (POCT) for infectious diseases, presenting the latest global research and practical cases. With millions dying annually from infectious diseases worldwide, POCT—featuring portability, simplicity, rapidity, and cost-effectiveness—greatly boosts treatment efficiency and resource utilization, becoming vital for primary care and outbreak response. It explores the on-site early detection and clinical value of technologies (molecular diagnostics, immunochromatography, microfluidic chips, nanomaterials, and biosensors) in respiratory, gastrointestinal, and bloodstream infections, among others. Contributions integrating artificial intelligence (AI), wearable real-time monitoring, automated data transmission, and cloud analysis are encouraged. This Special Issue provides technical support for public health emergencies, hierarchical healthcare, and home diagnostics, aiding a faster, more accessible infectious disease control system.

Guest Editor

Prof. Dr. Rongzhang Hao

1. Department of Toxicology and Sanitary Chemistry, School of Public Health, Capital Medical University, Beijing, China
2. Beijing Key Laboratory of Environment and Aging, Beijing, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diagnostics@mdpi.com

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Editor-in-Chief

Prof. Dr. Andreas Kjaer

Department of Clinical Physiology, Nuclear Medicine & PET National University Hospital, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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