

## Special Issue

# Next-Generation Diagnostics: Innovative Technologies Shaping the Future of Infectious Disease Testing

### Message from the Guest Editor

Molecular diagnostics are critical for timely and effective therapeutic interventions, as well as for the surveillance of emerging, re-emerging, and neglected infectious diseases. Among established technologies, real-time PCR remains the benchmark, with multiplex syndromic panels significantly accelerating diagnosis compared to conventional methods.

This Special Issue welcomes contributions on innovative technologies for molecular diagnostics for bacterial, viral, or parasitic infections, including, but not limited to, the following:

- a. Isothermal nucleic acid amplification methods (e.g., LAMP, RPA);
- b. Next-generation sequencing for clinical metagenomics;
- c. Genomics-based antimicrobial resistance detection;
- d. CRISPR-based diagnostics;
- e. Lab-on-a-chip and biosensing systems;
- f. Point-of-care molecular diagnostic platforms;
- g. Mobile health (mHealth) diagnostics using smartphones;
- h. Artificial intelligence applied to molecular diagnostics.

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### Guest Editor

Dr. Luis Gustavo Carvalho Pacheco

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### Deadline for manuscript submissions

closed (31 March 2026)



## Diagnostics

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## About the Journal

### Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

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