

## Special Issue

# Biosensors for the Early Diagnosis of High-Impact Human Diseases

### Message from the Guest Editor

Early diagnosis of high-impact human disease not only helps prevent disease development, but also allows individual and dynamic monitoring of these diseases, contributing to personalized medicine. Despite recent advances in biological and clinical research, many challenges remain in adapting and utilizing new biosensor technology in routine disease screening or longitudinal monitoring for early detection. The broad, unmet need for early diagnosis necessitates the development of biosensor platforms that can accurately detect a panel of multiple biomarkers at the point of care. This Special Issue of *IJMS* is focused on recent progress in biosensors. Topics of interest include, but are not limited to:

- Highly sensitive biosensor in complexing clinical context;
- Liquid-biopsy-based biosensor for high-impact human disease;
- Rapid and automated biosensor for sample pretreatment, detection and data analysis;
- Biosensor platforms assisted by artificial intelligence (AI) for data interpretation, risk assessment and consequent therapeutic treatment.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2024)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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