

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.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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