

Special Issue

Advances in Biomarker-Based Diagnostics: From Discovery to Clinical Application

Message from the Guest Editor

This Special Issue, "Advances in Biomarker-Based Diagnostics: From Discovery to Clinical Application", showcases recent innovations in the discovery, validation, and clinical translation of molecular biomarkers. Biomarkers—spanning nucleic acids, proteins, metabolites, and extracellular vesicles—are increasingly central to precision diagnostics, offering insights into disease onset, progression, prognosis, and therapeutic responsiveness. This Special Issue emphasizes the translational continuum from biomarker discovery and analytical validation to assay development, clinical performance evaluation, and regulatory considerations aligned with FDA, CLIA, and ISO standards. Contributions cover a spectrum of diagnostic modalities including liquid biopsies (e.g., ctDNA, exosomes), immunosensors, electrochemical biosensors, and microfluidic point-of-care devices. The scope of the Special Issue is broad and covers the following specified areas:

- Biomarker Discovery and Multi-Omics Approaches
- Biosensors and Microfluidic Diagnostic Platforms
- Liquid Biopsy and Non-Invasive Diagnostics
- AI and Computational Tools in Biomarker Interpretation
- Clinical Applications Across Disease Areas

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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