

Special Issue

Advanced Cell-Analyzing Technologies and Their Biosensing Applications

Message from the Guest Editors

Recent breakthroughs in cell analysis and biosensing technologies have significantly advanced our understanding of cellular behaviors, disease mechanisms, and personalized medicine. This Special Issue focuses on cutting-edge innovations in cell-based sensing, high-throughput screening, and single-cell analysis, highlighting their transformative potential in biomedical research, diagnostics, and therapeutics. We invite contributions that focus on advanced cell-analyzing technologies and biosensing applications across multiple scales, from the single cell to cell populations and organoids. This Special Issue welcomes original research articles, reviews, and perspectives addressing current challenges and technological innovations in cell analysis and biosensing. We especially welcome manuscripts involving cell mechanics analyzing techniques toward the goals of quantifying cellular function, phenotype and behaviors, tracking complex biological processes associated with health and disease of biological systems. We welcome researchers in various related disciplines to showcase novel methodologies and applications emerging from this rapidly evolving field.

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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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