Special Issue

Live-Cell Biosensors

Message from the Guest Editors

Here, we focus on biosensors to measure processes occurring in live cells. Different events can be measured that reflect the cell status or the response to a specific challenge, such as electrical activity, ion concentrations, changes of cell volume and morphology, pH, metabolic and redox state, cell-cycle progression and proliferation, cell death and apoptosis, cell–cell interaction, hormones or neurotransmitters release, and mechanical strain. Optical and electrochemical biosensors may be applied to primary cells, cell lines, iPSCs, and in vivo. Furthermore, they are also a versatile tool in 3D cultures and organoids. Monitoring biological events in live cells is important not only for basic research but also for drug discovery and development, toxicity screening, disease modeling, as well as clinical diagnostics and treatment. In this context, scientific progress is continuing to increase the content and/or throughput of biosensor-based screening, miniaturization, and application in vivo.

Guest Editors

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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.

Editor-in-Chief

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