

Special Issue

Microbioreactors for Cell Screening and Processing

Message from the Guest Editor

The screening and processing of cells often translate into the detection of few molecules in diluted and complex solutions. In addition, for some screening procedures, it is important to not affect the phenotype of the biological sample, especially for analysis over a long period of a specific sample (e.g., a specific cell populations). Therefore, it has become important to introduce new methodologies, which are not invasive for analytes. Microfluidic systems offer excellent control of the microenvironment, useful for high-throughput cell screening and processing. This is also due to the possibility of integrating or interfacing different types of sensors and the generation of spatially and temporal controlled fluxes in reaction or culture chambers. This Special Issue will report the latest developed innovative devices for cell screening and processing purposes. The main topic is related but not limited to:

- Microfluidics
- optical sensors
- electrochemical sensors
- cell screening
- cell processing
- micro-bioreactors
- lab on a chip
- optofluidics

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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