Special Issue

Organ-on-a-Chip for Biosensing

Message from the Guest Editors

An organ-on-a-chip is a microfluidic cell culture device that simulates tissue- and organ-level physiology. One of the important aspects of organ-on-a-chip is the integration and application of sensing technology. To enable in situ continual monitoring of organ behaviors, a variety of biosensors have been integrated to detect organ-specific reactions and dynamic tissue responses. This Special Issue aims to focus on the recent development of biosensing strategies applied to organ-on-a-chip research. The main topic of this special issue is related but not limited to:

- organ-on-a-chip
- microfluidics
- biosensor
- organoid
- 3D culture

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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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