



Advances in Micro-Bioreactor Design for Organ Cell Studies

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Message from the Guest Editor

The current Special Issue wants to highlight new engineering designs of micro-bioreactors, which present solutions that can cope with these shortcomings. In particular, new methods for monitoring of organ cells under in vivo-like conditions are welcomed. In addition, solutions that provide improvements of current methods, case studies with new prototypes for drug testing disease models. Of special interest are studies with deployment of hybrid models for multi-parametric control. The Special Issue is open for any kind of organ cell types or micro-bioreactor designs. Examples of contributions could address:

- Human organ cells in 3D scaffolds that mimic cell-cell interactions in vivo tissues
- Co-cultures of combinations organ cell types
- Online sensor methods for in situ monitoring inside the reactor
- In situ imaging of organ cell biomarkers
- Animal and human models of heart, liver or brain mimicked in micro-bioreactors
- New devices for parallel or scaled-out operation





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Message from the Editor-in-Chief

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