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# In Situ Detection in Microfluidic-Based Cell Culture and In Vitro Micro-Physiological Models

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Deadline for manuscript submissions:

closed (30 November 2020)

## Message from the Guest Editors

Organ-on-a-chip technology with homo/heterogeneous cellular structures have been employed for studying the cellular behavior and time-dependent cell/tissuexenobiotic interactions over extended periods. Detection of the physiological signals ex-situ, using the standard analytical tools, requires rounds of several sampling, which makes it difficult to perform long-term investigations on the same set of cells. Therefore, the integration of analytical tools within the microfluidic system would enable improved control of the cell microenvironment and precise cell assays. We are delighted to present the special issue entitled "In Situ Detection in Microfluidic-Based Cell Culture and In Vitro Microphysiological Models" that addresses this topic. This collection of articles will include the most relevant work in the integration of cell (co-)culture, monitoring tools and in situ detection from stateof-the-art contributions to critical reviews, which will highlight the new advances in this field. We invite researchers working in this area to submit full-length research papers, short communications, and review articles that meet the goal of this special issue.













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## Message from the Editor-in-Chief

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