

Special Issue

Microfluidic Bioreactors and Microphysiological Systems: Development and Applications

Message from the Guest Editor

Dear colleagues, In this Special Issue we would like to highlight research papers, reviews, or short communications that emphasize the developments and applications of microfluidic platforms that are capable of maintaining single or large and mixed populations of cells in 2D and 3D organotypic cultures, whole organoids, small tissue samples, or organs-on-a-chip that address pressing questions in biology, toxicology, development of novel therapeutics, or the better understanding of disease progression. Since microfluidic bioreactors do not exist on their own, we would also like to invite papers that deal with bioreactor support infrastructures such as platform interconnects, novel biomaterials for microfluidic applications, microscale fluid handling, and sampling including novel micropumps and valves, as well as effluent sensing and detection schemes and assay developments compatible with microfluidic volumes.

Guest Editor

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Message from the Editor-in-Chief

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