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Microfluidic Devices for Biomedical Engineering

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Message from the Guest Editor

Dear Colleagues,

Microfluidic technology is being developed to address a wide range of problems in the field of biomedical engineering, ranging from diagnostics to organ-on-a-chip models. The low sample consumption and fast timescales of analytical microfluidic assays have the potential to improve point-of-care diagnostics. Meanwhile, single-cell analysis and droplet-based microfluidics are promising platforms for the development of personalized medicine and drug development campaigns. Organ-on-a-chip models and devices for cell cultures generate new insights and models to bridge the gap between in vitro experiments on isolated biomolecules in dilute solutions and the complex biological processes in vivo. In this Special Issue on "Microfluidic Devices for Biomedical Engineering", we will showcase cutting-edge research using microfluidics to improve on the current state-of-the-art research on biomedical engineering applications.



Specialsue





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Message from the Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

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