Special Issue

Microfluidics for Biomedical Applications

Message from the Guest Editors

Microfluidics is a technique of controlling the behavior of fluids or bioparticles in microscale channels or spaces. The advent of microfluidics has provided new insights into the fields of biomedical research and clinical diagnosis. Compared with conventional techniques, microfluidics offers various advantages, such as low sample consumption, high efficiency, small device footprint, multifunction integration, and high manipulation resolution. To date, microfluidics has been employed for a range of biomedical applications, such as efficient sample pretreatment, single-cell analysis, high-throughput microflow cytometry, organ-on-a-chip, and biosensing. This Special Issue is devoted to the most recent technical innovations and developments in the area of microfluidics, in particular, for biomedical applications.

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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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