Special Issue

Advances in Microfluidic Flow Cytometry

Message from the Guest Editor

In recent years, there has been an increase in the demand for portable, low-cost, and compact microfluidic diagnostic devices for point-of-care testing. Microfluidic flow cytometry combines the microscale, on-chip capabilities of microfluidics with the powerful single-cell diagnostics of flow cytometry. Modern microfluidic flow cytometers and cell sorters allow for the on-chip manipulation of fluid flow, cell focusing, and particle detection within a single portable, compact, self-contained device. The development of these on-chip devices provides an opportunity to deliver high-quality diagnostics in a portable and cost-effective manner. We invite submissions on all aspects of the development and applications of microfluidic flow cytometry. Examples of topics include new technologies and the functionalities of microfluidic flow cytometers, microfluidic cell sorters, microfluidic imaging flow cytometers, and diagnostic and research applications for microfluidic flow cytometers. Contributions covering the engineering, design, research applications, and clinical applications of microfluidic flow cytometers, cell sorters and imaging flow cytometers will be considered.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2023)

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