Special Issue

Micro/Nanofluidics for Single-Cell Analysis

Message from the Guest Editors

Emerging **single-cell analysis technologies** open up a new avenue to profile individual cells and investigate what roles they play in these processes. Traditional single-cell analysis methods such as single-cell sequencing are mainly limited by cytogenetic analysis, and face the problems of low throughput, complex steps, and high price. **Micro/nanofluidics (e.g., microfluidic chips)** have the ability to pioneer the field of single-cell analysis, enabling multiple analysis of gene, protein, and cell behavior through accurate cell manipulation, the construction of on-chip biomimetic scenarios, etc. Meanwhile, the flexible structure design and convenient standardized preparation process of micro/nanofluidic devices bring distinct advantages for single-cell analysis, such as high throughput, high efficiency, high sensitivity, and low cost.

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