

Microfluidic Systems for Single Cell Analysis

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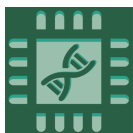
Message from the Guest Editors

Dear Colleagues,

Up to now, microfluidic systems have dramatically facilitated the development of single-cell analysis by leveraging the micro-scale geometry for improving sensitivity, decreasing reaction time, decreasing reagents consumption, and improving parallelization and automation for high throughput. Microfluidic droplets offer extremely high scalability of reactions and straightforward single cell manipulation. Single-cell analysis techniques based on the microfluidics systems have become a powerful tool and a driving force for biological studies and discoveries. This growing field has increased the sensitivity, accuracy, and throughput of traditional single-cell analysis methods.

For this Special Issue titled "Microfluidic Systems for Single-Cell Analysis", we welcome original works, perspectives, and reviews including but not limited to the developments and applications of single-cell analysis methods based on microfluidic systems, including single-cell capturing, sorting, culture, imaging, protein analysis, nucleic acid analysis, as well as genomics, transcriptomics, spatial transcriptomics, epigenomics, and multi-omics analyses.





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Message from the Editor-in-Chief

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