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Micro/Nanofluidics for Single-Cell Analysis

Guest Editors:

Prof. Dr. Lingqian Chang

Department of Biomedical
Engineering, Beihang University,
Beijing, China

Dr. Zaizai Dong

School of Engineering Medicine,
Beihang University, Beijing, China

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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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Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

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Contact Us

Biosensors
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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