Special Issue

Microfluidic Systems for Single Cell Analysis

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Qiangyuan Zhu
College of Control Science and Engineering, Zhejiang University, Hangzhou 310007, China

Prof. Dr. Ying Mu
College of Control Science and Engineering, Zhejiang University, Hangzhou 310007, China

Deadline for manuscript submissions

closed (31 July 2024)

Biosensors

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 6.6
Indexed in PubMed

mdpi.com/si/142827

Biosensors
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biosensors@mdpi.com

mdpi.com/journal/biosensors

Biosensors

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 6.6
Indexed in PubMed

mdpi.com/journal/biosensors

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza
Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Chemistry, Analytical) / CiteScore - Q1 (Engineering (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).

MDPI