

Special Issue

Insight into Developments and Applications of Flow Cytometry

Message from the Guest Editors

Flow cytometry has become one of the most widespread technologies used for the characterization of a variety of biological samples, as it provides detailed information on cell/particle features such as size, granularity, and antigen expression. Over the last few decades, flow cytometry's versatility has led to its adoption into various fields of investigation, including immunology, hematology, oncology, gene therapy, vaccine development, microbiology, and infectious diseases. Recent developments in this technique have expanded its capabilities. For instance, the introduction of spectral flow cytometry has enhanced resolution and multiplexing capacity for deeper and more complex flow cytometric analyses. Furthermore, the integration of flow cytometry with other technologies, such as single-cell RNA sequencing (CITE-seq) and microscopy (imaging cytometry), together with cell sorting, has facilitated the comprehensive multi-omics profiling of individual cells, offering deeper insights into cellular heterogeneity and function. The aim of this Special Issue is to collect recent advances in flow cytometry, including new frontiers of flow cytometry applications.

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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