Special Issue

Flow Cytometry in Immunology Research

Message from the Guest Editors

Flow cytometry has become an indispensable tool for immunologists, offering a powerful way to analyze large number of cells rapidly on a single-cell basis. Researchers can measure multiple cellular features simultaneously, creating a more comprehensive picture of immune cell behavior. Flow cytometry can also be used to sort out specific cell populations based on their properties, enabling multiple applications of these isolated cells. Technological advancements result in a rapid increase in the number of available dyes as well as allowing instruments to detect a larger number and variety of parameters. The introduction of spectral and imaging flow cytometry further increases dramatically the amount of available information and deepens our understanding of immunological processes. This Special Issue will include many novel immunological applications utilizing flow cytometry, including multi-parametric immuno-phenotyping in various disease models, host-pathogen interactions, cancer immunology, immunological functional assays and methods, new analytical tools, and other related topics.

Guest Editors

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About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).