



## Microfluidic Flow Cells: Modelling and Experiments

Guest Editor:

**Prof. Dr. Ivan Címrák**

Biomedical Modeling &  
Computation Group, University of  
Zilina, Zilina, Slovakia

Deadline for manuscript  
submissions:

**closed (31 August 2021)**

### Message from the Guest Editor

Microfluidics has been widely adopted by biological and biomedical research fields, including but not limited to lateral flow tests, mixing, or cell sorting. Due to the very nature of the problems, in the design phase, the microfluidic applications may greatly benefit from simulations. Additionally, computational models of fluidic systems involving the flow of cells and their manipulation may lead to computer-aided discovery. In any case, computational models of biological cells must be tightly linked to real biological experiments with cells.

To make this link, it is crucial to have very detailed information about the models as well as about the experiments. This Special Issue seeks to showcase research papers, short communications, and review articles that focus on all aspects of the relation between the cell computational models and the real biological experiments. In addition to the papers dealing with the development and application of computational models, we also encourage the publication of works that deal solely with experiments. Such papers should however contain detailed information on the experimental setup, including fluidic settings.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China  
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

## Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

## Contact Us

---

*Micromachines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/micromachines](http://mdpi.com/journal/micromachines)  
[micromachines@mdpi.com](mailto:micromachines@mdpi.com)  
[X@micromach\\_mdpi](https://twitter.com/micromach_mdpi)