# **Special Issue**

## Chips for Cells: Microfabrication Technologies for Tissue Engineering and Microphysiological Systems

### Message from the Guest Editor

Microfabrication and microfluidics enable a high spatial resolution of cell positioning and patterning, and opens up new avenues to increase the resolution of analysis. which push the boundaries of in vitro studies towards more advances. Organ-on-a-chip (OOC) is a sophisticated form of cell culture architecture that ensures precise cellular positioning and cell polarization similar to in vivo. Increasing the biological complexity would require a more complex fluidic network, hence increasing the complexity of the OOC devices. OOC is an engineering-driven technology and has benefited from well-established multi-engineering disciplines. Recently, convergence of 3D (bio) printing with microfluidics gives extra momentum in the direction of technology design and commercialization. We are delighted to announce this Special Issue that intends to include the most relevant work in microfabrication technologies for cell culture. We emphasize the interface between device engineering and cell culture, and how the engineering principle can be used to bridge the existing technological gap between in vivo and in vitro studies.

### **Guest Editor**

Dr. Qasem Ramadan College of Science and General Studies, Alfaisal University, Riyadh 11533, Saudi Arabia

### Deadline for manuscript submissions

closed (31 October 2021)



# **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/80148

Micromachines Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 micromachines@mdpi.com

mdpi.com/journal/ micromachines





# **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



MDPI

# About the Journal

### 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.

### Editor-in-Chief

Prof. Dr. Ai-Qun Liu

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

### Author Benefits

### **High Visibility:**

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

#### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).