# **Special Issue**

# Microfluidics Technologies for Cell-based Assays

## Message from the Guest Editors

Microfluidic systems are increasingly used for conducting cell-based assays. Such systems enable monitoring cellular responses under well-controlled physical (mechanical, shear stress, thermal, optical) and chemical (drugs, chemicals, nanomaterials) stimuli to mimic various physiological and pathological cues, allowing for more realistic in vitro models. Furthermore, advancement of micro-fabrication technologies has facilitated highly integrated and multi-functional organon-chip systems that can replace the lengthy and expensive ex vivo and in vivo models. This Special Issue seeks to showcase research papers, short communications, and review articles reporting the latest developments in this exciting and multi-disciplinary field. The topics include but are not limited to (i) studying the viability, proliferation, metabolism, signaling, migration, and morphology of cells, (ii) sorting and patterning of cells, and (iii) development of disease-onchip, organ-on-chip models using microfluidic technologies.

## **Guest Editors**

Prof. Dr. Khashayar Khoshmanesh

School of Engineering, RMIT University, City Campus, Melbourne, VIC 3001, Australia

### Dr. Sara Baratchi

School of Health and Biomedical Sciences, RMIT University, Bundoora Campus, Melbourne, VIC 3083, Australia

## Deadline for manuscript submissions

closed (1 February 2020)



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

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#### 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

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