



## Advances in Microfluidics for Quantifying Cell Mechanics and Biotransport

Guest Editors:

**Dr. Hiroaki Ito**

Department of Physics, Graduate School of Science, Chiba University, Yayoi-cho 1-33, Inage-ku, Chiba, Japan

**Dr. Naoki Takeishi**

Department of Mechanical Science & Bioengineering, Graduate School of Engineering Science, Osaka University, Toyonaka 560-8531, Japan

Deadline for manuscript submissions:  
**closed (20 August 2021)**

### Message from the Guest Editors

Dear Colleagues,

Microfluidics is a fundamental but practical way to precisely manipulate and control fluids and small particles and has been widely used in various fields. Quantification of the mechanical properties or microscopic responses of biological cells has led to the development of appropriate mathematical models and also to systematic computational studies, which have revealed their underlying mechanics, e.g., relationships between the stress field and cell deformation.

In this Special Issue, we highlight recent advances in microfluidics for quantifying cell mechanics and biotransport phenomena, with original research papers and review papers that focus on single-cell mechanics, suspension rheology, the collective behaviors of microswimmers, the mechanical responses of cells in confined fluid flow, fundamental technologies in micro-electro-mechanical systems (MEMS), and mathematical models.

We look forward to receiving your submissions.





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

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