

Special Issue

Microdevices and Microsystems for Cell Manipulation

Message from the Guest Editors

Microfabricated devices and systems capable of micromanipulation are well-suited for the manipulation of cells. These technologies are capable of a variety of functions, including cell trapping, cell sorting, cell culturing, and cell surgery, often at single-cell or sub-cellular resolution. These functionalities are achieved through a variety of mechanisms, including mechanical, electrical, magnetic, optical, and thermal forces. The operations that these microdevices and microsystems enable are relevant to many areas of biomedical research, including tissue engineering, cellular therapeutics, drug discovery, and diagnostics. This Special Issue will highlight recent advances in the field of cellular manipulation. Technologies capable of parallel single-cell manipulation are of special interest.

Guest Editors

Prof. Dr. Aaron T. Ohta

Department of Electrical Engineering, University of Hawai'i at Manoa,
Honolulu, HI 96822, USA

Dr. Wenqi Hu

Department of Physical Intelligence, Max-Planck-Institut für Intelligente
Systeme, Room No. 4P08 Heisenbergstraße 3, 70569 Stuttgart,
Germany

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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

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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