# **Special Issue**

# Advanced Lab-on-Chip and Micro-systems for Manipulation and Bio-Detection

## Message from the Guest Editors

To achieve the precise manipulation and detection of micro- and nanotargets, LOC micro-systems provide promising options due to their applications in mechanical, medical, biological, and environmental fields. In all these areas, the adoption of microfluidic devices transforms the efficiency of the reactive process or assay and analytical throughput. For biological and chemical applications, there is great interest in micro/nano-structured channel systems and micro/nano-patterned surfaces. So-called microfluidic devices offer great prospects for carrying out biochemical reactions, successive separation and analysis of the reaction products on one chip. We seek to showcase research papers, communications, and review articles that focus on novel methodological developments by using advanced microfluidic systems for sampling and detection, with particular interest being paid to techniques for the manipulation, separation, characterization, and identification of micro-targets. Based on their ability to perform complex experimental workflows in a rapid, efficient, and robust fashion, the platforms are favorable for defined biological and chemical applications.

#### **Guest Editors**

Dr. Kai Zhao

Liaoning Key Laboratory of Marine Sensing and Intelligent Detection, Department of Information Science and Technology, Dalian Maritime University, Dalian 116026, China

Dr. Kaihuan Zhang

Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai 200050, China

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

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#### Editor-in-Chief

### Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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