Special Issue

Integrated Microfluidic Microarray Biochip and Biosensor

Message from the Guest Editors

Microarray is a concept implementing multiple probes for a high-throughput parallel analysis. Over the two decades since the invention of the concept, several types of probes, ranging from small molecules, oligonucleotides, antibodies, proteins, and even whole organisms, such as viruses (e.g., bacteriophage), bacteria cells, and mammalian cells, have been utilized for high-throughput sensing in various types of research, such as biosensing and molecular biology studies. When integrated with microfluidic devices, the microarray technique becomes more powerful by reducing the reagent consumption and reaction time, with precise control of the microenvironment, and having a higher compatibility with the automated operation. This Issue intends to cover the technology involved in the integration of microarray and microfluidics, and the benefits/applications made possible by the integration. For more information, please visit: mdpi.com/si/38542.

Guest Editors

Prof. Dr. Ji-Yen Cheng
Research Center for Applied Sciences, Academia Sinica, Taipei 11529, Taiwan

Dr. Danny van Noort
National Heart Centre Singapore, 5 Hospital Drive, Singapore 169609, Singapore

Deadline for manuscript submissions

closed (1 May 2021)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/38542

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

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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