

Special Issue

Recent Trends and Advances in Lab-on-a-Chip

Message from the Guest Editor

The Lab-on-a-Chip Devices are standing about the doorsills of our homes, ready to get really wide-spread. In one of their ancestors, microelectronic chips, several different electronic units are made on the same plate. To produce them microlythography with microsesists (photopolymers) was needed. Not much time later, photopolymer structures were also used as building blocks for devices of integrated optics (where optical waveguides function as wires for light). From there it was just another jump to utilize these structures as molds for microchannels, so microfluidics was born. In some cases these structures were created for performing chemical reactions (taking the advance of small size, meaning small amount of reagents). In the Lab-on-a-Chip devices (very often) microelectrodes and integrated optical waveguides are combined with microchannels, as a kind of reunion of the elder and younger members of the integrated micro-family. The purpose of this special issue is to show as much as possible of the huge variety of applications and new possibilities that Lab-on-a-Chip technology could provide to us, and eventually to let it ring our doorbells.

Guest Editor

Dr. Sándor Valkai

Institute of Biophysics, HUN-REN Biological Research Centre, 6726 Szeged, Hungary

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

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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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