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Lab-on-a-Chip and Microfluidic Sensors

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Message from the Guest Editor

Dear Colleagues,

Lab-on-a-chip technology is the cornerstone of low-cost and robust testing at the point-of-care. It is widely applied for the semiquantitative detection of a broad range of target molecules in bodily fluids and water and food samples. However, it suffers from a major shortcoming that limits its usefulness, which is that it is mostly suitable for the analysis of simple analyte samples. For example, testing of blood biomarkers requires *ex situ* sample preprocessing (to obtain plasma), which negates the benefit of the point-of-care format. There is therefore a significant need to develop a next-generation point-of-care technology compatible with complex samples such as blood, tissue, stool, and food with greater limit-of-detection.

This Special Issue is devoted to covering microfluidic and lab-on-a-chip research that focuses on integrated sample preparation and detection on a single chip to provide low-cost and equipment-free detection. Some reviews constitute the backbone of the Special Issue, and there is room for many regular research papers, as well as mini reports.



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Special Issue



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Message from the Editor-in-Chief

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