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Microfluidics for Biodiagnostics

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Message from the Guest Editors

Dear Colleagues,

The field of biodiagnostics is a multidisciplinary area of research involving biology, chemistry, physics, and materials. Research can adopt varied setups and configurations, depending on the target analyte, the bioreceptor to be used, the interface sample/transducer concerned, the transduction principle applied, and the test format used for the specific application (clinic diagnostic, bioprocess monitoring, biosafety, environmental surveillance, etc.). The medical field is one of the most attractive application areas for biodiagnostics, as research in this area could provide reusable devices for the rapid and accurate analysis of physiological parameters and the demand for cost-efficient platforms is the key to success and acceptance in a competitive market. On the other hand, microfluidics provides the possibility of performing sophisticated analysis within chips that have been able to be held in the hand, allowing fast sample analysis, high throughput, portability, and reduced reagent use, all of which are associated with a decreased cost per analysis.





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Message from the Editor-in-Chief

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