Special Issue

Flexible and Wearable Microfluidic Devices

Message from the Guest Editors

Highly flexible and wearable microfluidic devices have great potential for applications in medical screening and diagnostics. The development of wearable microfluidics for the detection of biomarkers in fluids, such as perspiration, interstitial fluid, blood, tears, or saliva, has lagged behind, despite the enormous potential of such systems. Wearable microfluidic devices face unique challenges due to the need to interface to the body and/or collect fluid samples for analysis, driving some researchers to investigate technologies such as mechanically flexible and textile-based approaches. This Special Issue will focus on the development of flexible and wearable microfluidic-based devices and systems for a broad range of applications that may include personalized medicine, athletics, worker safety, and environmental monitoring and comfort.

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