

Special Issue

Micro-/Nano Biomedical Point-of-Care Devices

Message from the Guest Editor

Medical diagnostics play an important role in patient care. Today's issues include the speed of diagnostics (as samples are sent to a central lab for diagnostics), the price of the tests, as well as complexity of operation. However, COVID-19 has shown us the way to home-based testing kits, although with limited accuracy and applications. As such, there is a greater need for faster and more complex point-of-care devices which can be used in clinics, remotely or even at home, without the need for specialized laboratories. Devices can be simple microfluidic or paper-based test kits for single analysis or can also be more complex systems detecting multiple biomarkers. To fully utilize the possibilities of point of care, automation and remote diagnostics should also be considered—think of tele-medicine. Point-of-care devices also aim to prevent medical problems by being able to achieve advanced detection of biomarkers before the manifestation of the disease, which means an increase in sensor sensitivity to detect low concentration of biomarkers.

Guest Editor

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