Special Issue

Microfluidics-Based Point-of-Care Diagnostics

Message from the Guest Editor

Microfluidics has been increaingly used as a platform for technology in various research purposes across different scientific fields, because of its advantages. One of the important advantages of microfluidics is that it allows for the precise manipulation of a lower volume of samples, such as dilution, mixing, chemical reaction, and partitioning, within microfabricated channels. Eventually, microfludic technologies allow for the use and analysis of lower volumes of samles for rapid and sensitive detection. Accordingly, it has become a key platform technology for point-of-care (POC) diagnostics, because of its various advantages, including feasibility and portability. POC diagnostics have the potential to improve health care in various ways, ranging from enabling the earlier detection of disease and easier monitoring, to reaching under-served and remote populations. This is why POC diagnostics and microfluidics have merged rapidly, and have had a great impact on the rapid development of POC diagnostic technology.

Guest Editor

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