Special Issue

Recent Trends and Advances in Lab-on-a-Chip for Biosensing Applications

Message from the Guest Editor

Cancer is one of the leading causes of death around the world. Tumor markers such as proteins, miRNAs, circulating tumor cells, or tumor-derived extracellular vesicles play an important role in early diagnosis and disease progression monitoring. Various methods have been reported for detecting single or multiplex tumor biomarkers. Microfluidics technology has shown a promising and powerful tool for biological detection due to its outstanding advantages, including its miniaturization, automation, portability, parallel analytical ability, minimal handling of hazardous materials, small reagent consumption, and point-of care diagnosis. Most importantly, all operation steps, including sample pre-treatment, reaction, and detection, can be integrated into one microfluidic platform for on-site test applications. To date, a large number of microfluidic platforms have been reported to combine with different kinds of technologies for tumor biomarker detection. We encourage the submission of original research articles and reviews that focus on the topic “Recent Trends and Advances in Lab-on-a-Chip for Biosensing Applications” related to tumor markers.

Guest Editor

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