Special Issue

Microfluidics in Cancer Research

Message from the Guest Editor

Cancer is a leading cause of mortality worldwide, causing more than 19 million deaths in 2020. Therefore, cancer research is recognized as one of the most important fields of research in the coming years, and effort in the field is continuously growing. Microfluidics has emerged as a powerful technology for both early diagnosis and fundamental studies in cancer. Microfluidic platforms allow high sensitivity, high throughput, low reagent consumption and single-cell or intracellular analysis. These advantages represent a new frontier in deciphering tumor heterogeneity, which often causes non-responsiveness to targeted therapies. This Special Issue aims to collect the latest achievements in various aspects of microfluidics in cancer studies: new technologies and functionalities of lab-on-chip devices, measurement protocols and analysis, machine learning, and other methods for high-throughput data analysis. We invite research papers, communications, and review articles that focus on new results in the exploitation of microfluidics as a means to advance knowledge on cancer, early diagnosis and possible therapies.

Guest Editor

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