Special Issue

Development of Point-of-Care Diagnostic Tools and New Bioassays

Message from the Guest Editors

Microfluidic technology has become a very important biological and chemical analysis tool because of its advantages, such as low cost of samples and reagents, in situ real-time analysis, etc.; thus, microfluidics has been applied in many studies at the molecular and cellular levels. For cell research, because the dimension of the microchannel is greatly compatible with the magnitude (size) of the cells and can perfectly simulate the real in vivo environment of cells in vitro, it has become a new platform for the real-time detection and research of cells and single cells. This Special Issue aims to collect the latest technological progress in microfluidic technology in the field of cell detection and research. We particularly encourage research in the following areas: (1) cancer cell capture and recognition; (2) cancer cell drug screening; (3) cell viability detection; (4) cell vitality evaluation; (5) optical and electrochemical cell detection; (6) electrical-impedance-based cell detection; (6) hematology analysis (red blood cells, platelets, white blood cells, clotting, etc.); and (7) rapid detection of sperm viability.

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Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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