Special Issue

Recent Progress in Biosensor Technologies for Detection of Exosomes

Message from the Guest Editors

Exosomes are extracellular vesicles (generally with a length of 30-150 nm) that play important roles in various physiological and pathological processes. These cell-secreted nanoparticles are considered a special class of biomarkers for non-invasive disease diagnostics in point-of-care settings. Biosensors have gained great research attention for the detection of exosomes due to their superior properties, such as convenient operation, real-time monitoring ability, high sensitivity, and remarkable specificity. They have great potential in various biomedical applications (from early diagnosis to therapy monitoring), e.g., the early diagnosis of cancer. Exosomes are attractive cancer biomarkers in noninvasive early diagnosis because of their unique physiological and pathological functions, which can reveal remarkable information about cancer microenvironments and plays an important role in the development and evolution of cancer. The editors of this Special Issue welcome original research and review articles that cover both exosome bioengineering and their biosensing applications.

Guest Editors

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Message from the Editor-in-Chief

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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