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Bio-Nano Interfaces: From Biosensors to Nanomedicines

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Message from the Guest Editors

Dear Colleagues,

New biomarkers associated with different diseases are urgently needed to improve patient survival. Biomolecules allow for determining the optimal treatment, establishing a clinical diagnosis and enabling clinical prognosis in neurological, cardiovascular and infectious diseases, as well as in cancer. Highly promising strategies to detect specific biomarkers often rely on the design of specific biosensors; these techniques are expected to improve sensitivity, selectivity, reproducibility and response time. Clinical and non-clinical biosensors can be categorized into different types of detection. They use enzymes, cells, antibodies, DNA, nanoparticles or the pathogenic agent itself, such as bacteria or viruses, to enact their effects. This paves the way for a plethora of different applications. including the use of biosensors in diagnostic kits for SARS-CoV-2 detection. This Special Issue will explore the intersection between nanosciences, biology and medicine, presenting various research approaches to biosensors' application in clinical diagnosis and care, including their fabrication, accompanying challenges and future trends in their development.













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Message from the Editor-in-Chief

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