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Nanotechnology-Based Biosensors: Applications in Cancer and Neurodegeneration

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Deadline for manuscript
submissions:

closed (20 May 2024)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on the latest advances in biosensors based on nanotechnologies used in studies for cancer and neurodegeneration. Both review articles and novel research papers are solicited, covering the following areas:

- Novel biosensors to optimise the sensitivity, accuracy and precision of biomedical analysis and diagnostics, including different sensing modalities, e.g. optical, electric, microfluidic, magnetic, acoustic.
- Biosensors used for fundamental research in cancer and neurodegeneration studies, aiming at defining new therapies, drugs and vaccines in this field.
- Biosensors and point-of-care devices applied in clinical trials to analyse the response of patients to different drugs and treatments, aiming at improving the promptness and efficiency.
- New strategies to integrate biosensors in portable instruments to facilitate their use by non-expert users with cost-efficient solutions.
- The combination of different sensing modalities accessing a multiparameter and multiplexed sensing, in order to improve the diagnostic accuracy and provide a detail insight in the disease stage and progression.



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Special Issue



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Editor-in-Chief

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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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