Special Issue

Nanotechnology-Based Biosensors: Applications in Cancer and Neurodegeneration

Message from the Guest Editor

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.

Guest Editor

Dr. Donato Conteduca
School of Physics, Engineering and Technology, University of York, Heslington, York YO10 5DD, UK

Deadline for manuscript submissions

closed (20 May 2024)

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Biosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biosensors@mdpi.com

mdpi.com/journal/biosensors

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza
Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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