Special Issue

New Developments for Efficient Rapid Bioassays

Message from the Guest Editor

The task of this Special Issue is to present new developments in the field of efficient and rapid bioassays. Actively progressing bioanalytical systems such as membrane test strips, homogeneous kits with the generation of fluorescent signals, and portable electrochemical sensors are of particular interest, but other developing methods are relevant as well. Systems using antibodies and alternative receptors (for example, aptamers) are considered as the basis for new biosensors. It is important to underlie that the potential and prospects for the widespread application of new bioassays can be established only after a thorough testing, involving specific and sequential stages. We will welcome works presenting solutions to common difficulties that are being encountered in the achievement of ideal biosensors, focusing on:

- right sample preparation (rapid and complete)
- right receptor molecule (with high affinity and specific)
- right interaction mode (providing fast formation of detected complexes);
- right signal generation (through new markers and amplification tools)
- right information output (multiplexity, automated processing and transfer of data).

Guest Editor

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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).

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