Special Issue

Biosensors for Food Safety

Message from the Guest Editors

Ensuring food safety across the supply chain is critical to minimizing foodborne disease outbreaks. The detection and quantitation of microbial pathogens and toxins in real time remains an unmet challenge because of the complex nature of food matrices and the trace levels of these pathogens and toxins that can cause disease. This Special Issue compiles recent biosensor research that combines the selectivity of biorecognition elements, novel transduction architectures, microfluidics, and novel data processing algorithms. The literature on biosensors for food safety is typically abundant and justifiably focuses on achieving low detection limits. However, the robustness, reproducibility, scalability, and applicability of many biosensors are rarely discussed, especially in the context of sample preparation. To maximize the impact of this Special Issue, authors are encouraged to include such discussion and perspectives in a special section within the conclusions section of each article.

Guest Editors

Prof. Dr. Ramaraja Ramasamy

Dr. José I. Reyes-De-Corcuera

Dr. Baviththira Suganthan

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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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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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