

## Special Issue

# Advanced Electrochemical Biosensors and Their Applications

### Message from the Guest Editors

We are delighted to present this Special Issue, "Advanced Electrochemical Biosensors and their Applications", which aims to highlight the most recent advances and technological breakthroughs in the field of electrochemical biosensors. As the demand for highly sensitive, portable, and cost-effective biosensors continues to grow, especially in areas such as medical diagnostics, environmental monitoring, and food safety, electrochemical biosensors have emerged as one of the most promising and versatile technologies. This Special Issue focuses on bringing together cutting-edge research and developments that address both the scientific and engineering challenges in electrochemical biosensing. Topics of interest include, but are not limited to: nanomaterial-enhanced biosensors, wearable and flexible biosensors, point-of-care (POC) diagnostics, aptasensors and immunosensors, and machine learning integration.

We invite contributions that explore novel fabrication techniques, innovative applications, and real-world case studies where electrochemical biosensors are making significant impacts.

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### Guest Editors

Dr. Daniel Matias Gaston Regiart  
Prof. Dr. Walter Ricardo Brito  
Dr. Martín A. Fernández-Baldo

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### Deadline for manuscript submissions

10 September 2026



## 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.

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### Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della  
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