



Bioconjugate Chemistry for Biosensors

Guest Editor:

Dr. Gintautas Bagdžiūnas

1. Group of Supramolecular Analysis at Institute of Biochemistry, Life Sciences Centre, Vilnius University, LT-10257 Vilnius, Lithuania

2. Department of Functional Materials and Electronics at Center for Physical Sciences and Technology, Saulėtekio av. 3, LT-10257 Vilnius, Lithuania

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editor

Bioconjugate chemistry is an interdisciplinary science field that combines organic chemistry, biochemistry, and biology. The 2022 Nobel Prize in Chemistry recognized the important contributions of Bertozzi, Meldal, and Sharpless in developing click chemistry and biorthogonal chemistry, which have widely been used by researchers to achieve efficient and site-selective control of bioconjugation reactions. By conjugating biological structures with electrochemically or fluorescently active groups, new possibilities for bioimaging and applications of biosensors are created. Therefore, the functionalization of biomolecules, such as enzymes, antibodies, DNA, and RNA, as sensitive biological recognition elements for biosensors is a promising approach to improving biosensor technology.

We encourage the submission of recent discoveries and improvements in bioconjugate chemistry for biosensors, including works related to bio-organic, organic and analytic chemistry, biochemistry, electrochemistry, and spectroscopy. This Special Issue of *Biosensors* will showcase the latest progress and unique advantages in these areas.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Chemistry, Analytical*) / CiteScore - Q1 (*Engineering (miscellaneous)*)

Contact Us

Biosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
[X@Biosensors_MDPI](https://twitter.com/Biosensors_MDPI)