

Special Issue

Novel Concepts in Aptamer Selection, Modification and Integration into Sensing Platforms

Message from the Guest Editors

You are kindly invited to submit original research and review articles to this new Special Issue dedicated to the most recent developments in the field of aptamers and aptasensors. This Special Issue aims to gather the latest advances in aptamer selection techniques and the rational or semirational introduction of modifications to improve their affinity and specificity and enhance their performance. It also aims to showcase novel applications of aptamers alone or in combination with nanomaterials in fields where they are already traditionally deployed (environmental and food monitoring), but also in emerging ones such as medical diagnostics and therapeutics, with a special emphasis on their employment in complex matrices with minimal sample preparation. It is my hope that this Special Issue will provide a forum for the exchange of ground-breaking ideas on aptamers and their applications and will inspire the scientific community to further investigate aptamer structure, rational design, and integration into biosensing platforms.

Guest Editors

Dr. George Tsekenis

Applied Biophysics and Surface Science Group Bio-Medical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece

Dr. Evangelos Skotadis

1. Department of Applied Physics, National Technical University of Athens, 10682 Athens, Greece

2. Department of Biomedical Engineering, University of West Attica, 122 43 Athens, Greece

Deadline for manuscript submissions

closed (31 January 2022)



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



mdpi.com/si/67833

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

[mdpi.com/journal/
biosensors](https://mdpi.com/journal/biosensors)





Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



[mdpi.com/journal/
biosensors](https://mdpi.com/journal/biosensors)



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

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Instruments and Instrumentation) / CiteScore -
Q1 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).