## Special Issue

# Recent Advances in Microfluidic Biosensors in Biomedical Applications

### Message from the Guest Editor

Microfluidic biosensors are crucial in biosensing applications. These miniature devices allow rapid, real-time analysis with minimized sample volumes. In biomedical and clinical settings, they play pivotal roles in disease diagnostics, biomarker monitoring, pathogen detection, and therapeutic drug monitoring. Their automation potential facilitates high-throughput screening, ensuring biocompatibility and reducing sample contamination to maintain the integrity of biological samples. The recent emphasis on developing microfluidic-based biosensor technologies with high sensitivity, reproducibility, and stability has made these devices a focal point of interest, particularly in the biomedical field. This Special Issue welcomes original research papers, as well as reviews of current developments in the design of high-sensitivity and reproducible microfluidic-based biosensors.

### Guest Editor

Dr. Rohollah Nasiri

Department of Radiation Oncology, Stanford University, Stanford, CA, USA

### Deadline for manuscript submissions

closed (31 July 2025)

**Biosensors**

**an Open Access Journal by MDPI**

**Impact Factor 5.6**
**CiteScore 9.8**
**Indexed in PubMed**

mdpi.com/si/191549

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

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

# 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).

MDPI