

Special Issue

Lab-on-a-Chip Devices for Point-of-Care Diagnostics

Message from the Guest Editors

Lab-on-a-chip (LOC) devices have emerged as new tools to model disease, assess therapeutic efficacy, screen potentially toxic drugs, and monitor health. Given their reduced spatial footprint, LOC devices are particularly well-suited for point-of-care (POC) diagnostic applications, which often require portability, prompt results, and simple, user-friendly operation. In light of this rapidly growing area of research, we are pleased to invite you to contribute to this Special Issue focused on recent advances, current challenges, and future perspectives for the development of lab-on-a-chip devices and their application in point-of-care diagnostics. This Special issue aims to focus on the most recent developments in the area of lab-on-a-chip devices for point-of-care applications and will consist of research articles, short communications, review articles, and perspectives.

Guest Editors

Dr. Derrick Butler

National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA

Dr. Hadar Ben-Yoav

Nanobioelectronics Laboratory, Department of Biomedical Engineering, Ben-Gurion University of the Negev, Beer-Sheva 8410501, Israel

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/187836

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).