Special Issue

Bioelectric Impedance Technology for Next Generation Point-of-Care Biomedical Biomarkers and Diagnostics

Message from the Guest Editors

Point-of-care devices are unique diagnostic technologies that provide the potential for rapid biomarker detection and monitoring of medical conditions, thereby bypassing the demand for high-cost clinical laboratory facilities in many cases. Bioelectric sensors are suitable for use in handheld diagnostic devices due to the integrated electronic detection instrumentation and low requirement for processing reagents. Nowadays, bioelectric impedance sensing is widely used in tissue analysis such as body composition monitoring, however, its use in point-of-care patient testing is yet to be widely adopted. The aim of this Special Issue is to focus on the most recent advances and developments of biosensors in the field of bioelectric impedance sensing. Suggested topics are bioelectric sensors for single cell analysis, impedimetric biosensors, wireless biological electronic sensors, and implantable autonomous bioelectric micro- and nano-sensors. In addition, approaches providing a point-of-care/portable and wireless instrumentation, high throughput analytical capacity, and intelligent bioelectric impedance sensing platforms are also welcome.

Guest Editors

Prof. Dr. Spyridon Kintzios

Laboratory of Cell Technology, Faculty of Biotechnology, Agricultural University of Athens, 118 55 Athens, Greece

Dr. Sofia Mavrikou

School of Food, Biotechnology and Development (TBA), Agricultural University of Athens, 11855 Athens, Greece

Deadline for manuscript submissions

closed (31 August 2021)

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/62776

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, Ei Compendex, 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 20.6 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).

MDPI