



## Biosensors for the Detection of Biomarkers

Guest Editor:

**Prof. Dr. Chung-Chiun Liu**

Department of Chemical and  
Biomolecular Engineering and  
Electronics Design Center, Case  
Western Reserve University,  
Cleveland, OH 44106, USA

Deadline for manuscript  
submissions:

**closed (15 October 2017)**

### Message from the Guest Editor

A biomarker is a measureable indicator reflecting the presence of a disease or physiological state of an organism. Specifically, a biomarker provides an indication of normal and disease processes in the body, the progression of a disease, assessment of therapeutic effectiveness and early-stage screening, diagnosis, and clinical end-point evaluation. A biomarker is also important in personalized medicine, tailored to a specific patient for highly efficient treatment of disease processes.

The bio-recognition mechanism of a biosensor can be specifically tailored, providing selectivity and sensitivity in the detection of a biomarker. The test medium can be a physiological fluid, including cerebrospinal fluid (CSF), blood, urine, saliva, and even breath. The transduction mechanism of these biosensors for biomarker detection can be optical, electrochemical, surface plasmon resonance (SPR), etc. In this Special Issue, we seek unique research and development efforts, identifying biosensors for the detection of various biomarkers, and expanding the scientific frontier of this very important and significant biomedical endeavor.





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](http://www.mdpi.com)

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