

Special Issue

Biosensor Based Advanced Cancer Diagnostics and Therapy

Message from the Guest Editor

In the past decade, progressive development of better-affinity aptamers, antibodies, and engineered antibodies to disease biomarkers has been achieved, with concurrent advances in nanotechnology, which has stimulated and increased the development of nanomaterials-based biosensors to gradually replace the classical diagnostic methods and therapeutic means. In this issue, biomarkers/biosensors (e.g., signaling molecule, cell adhesion molecules, telomerase, tumor suppressors, microRNA, immune checkpoint, circular tumor marker DNA, tumor spheroid, tumor-related exosomes), as well as different types of transducers (e.g., electrochemical, optical, thermal, and piezoelectric) are used to fulfill the above needs. Therapeutic approaches, such as anticancer drug therapy, chem-photothermal therapy, and immune checkpoint therapy, are also included to meet the needs in the field. Original research articles are preferred for this issue. **Keywords:** signaling molecule; METCAM; microRNA; circular tumor marker DNA; tumor-related exosome; telomerase; tumor suppressor; tumor spheroid; LFIS; anticancer drug; chem-photothermal therapy; immune checkpoint therapy

Guest Editor

Prof. Dr. Guang-Jer Wu

1. Department of Bioscience Technology, Chung Yuan Christian University, Taoyuan City 32023, Taiwan
2. Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA 30322, USA

Deadline for manuscript submissions

closed (31 October 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/130656

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

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





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)