



## Fluorescent Probe and Organ-on-Chip for Drug Delivery and Development

Guest Editor:

### **Dr. Bo Peng**

Frontiers Science Center for  
Flexible Electronics, Xi'an  
Institute of Flexible Electronics  
(IFE) and Xi'an Institute of  
Biomedical Materials &  
Engineering, Northwestern  
Polytechnical University, Xi'an  
710072, China

Deadline for manuscript  
submissions:

**closed (20 May 2023)**

### **Message from the Guest Editor**

Microfluidic-based Organ-on-Chip technology is proposed to fill in the blanks in traditional two-dimensional (2D) cell culture and animal models, and further gradually replace animal studies. As a product of the progressive development of microfluidic technology, Organ-on-Chip combines microfluidic technology with cell biology, which faithfully mimic the physiological microenvironment of in vivo target organs, making it a great platform for the research of drug delivery and development.

Nowadays, due to its high temporal and spatial resolution, fluorescence imaging technology has become one of the most effective techniques in monitoring of the production, transport and biological functions of biomolecules in the context of life systems. Organ-on-Chip utilizes transparent materials which are highly compatible with various types of microscopy. Therefore, the application of fluorescence probes in Organ-on-Chip holds great potential in many different research fields, such as biology, clinical diagnosis, and drug discovery and development.





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