Special Issue

CRISPR/Cas-Based Biosensing Systems: Development and Applications—2nd Edition

Message from the Guest Editor

Clustered regularly interspaced short palindromic repeats (CRISPR)/CRISPR-associated (Cas) proteins, which originated as bacterial and archaeal defense mechanisms, have become an essential tool in various fields, including genome editing, gene expression modulation, cell imaging, and biosensing. In particular, it has shown great promise in biosensing applications due to its easy design, simple operation, and high specificity. Until now, there have been many attempts to develop biosensing platforms for the sensitive detection of target nucleic acids in combination with various signal amplification strategies. Furthermore, the high modularity of the CRISPR/Cas protein enables the expansion of detection targets even to small molecules, proteins, exosomes, cells, etc., advancing the area of biosensing. In this Special Issue, we aim to explore recent advances in CRISPR/Cas-based biosensing systems, which can improve the quality of human life. We encourage the submission of papers on the following topics described by the keywords below, though works on related topics are also welcome.

Guest Editor

Dr. Ki Soo Park

Department of Biological Engineering, Konkuk University, Seoul 05029, Republic of Korea

Deadline for manuscript submissions

10 July 2026

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/224804

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 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).

MDPI