



an Open Access Journal by MDPI

Genetically Encoded, Small-Molecule Biosensors and Their Applications

Guest Editor:

Dr. Patrick C. Cirino

Department of Chemical and
Biomolecular Engineering,
University of Houston, Houston,
TX 77204-4004, USA

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editor

Dear Colleagues,

Genetically encoded biosensors are proteins or nucleic acids that, when actuated by specific signals, elicit readily detectable cellular change(s) or trigger other, targeted genetic and metabolic responses to those signals. This Special Issue will feature new research into the design or repurposing of endogenously expressed biosensors that target specific small molecules, along with their applications. Example applications include coupling biosensing to outputs amenable to high-throughput screening of single cells, and use as novel dynamic regulators of uni- or multi-cellular processes.

Dr. Patrick C. Cirino

Guest Editor



mdpi.com/si/131248

Special Issue



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, Ei Compendex, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
X@Biosensors_MDPI