Special Issue

Genetically Encoded, Small-Molecule Biosensors and Their Applications

Message from the Guest Editor

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.

Guest Editor

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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.

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