Special Issue

Fluorescent Biosensors for Molecules Detection

Message from the Guest Editors

Innovative, revolutionary, cutting-edge technologies, such as CRISPR gene editing, are the driving forces behind new discoveries in science. In recent decades, we have been able to measure ion and metabolite levels in vitro or in heterologous systems, e.g., using a GFP-reporter system and mass spectrometry. However, our knowledge of the locations and dynamics of metabolites, as well as the regulation in the cellular levels, is still poor. The fluorescent (bio)sensors for molecule detection in vivo can provide information with high spatiotemporal resolution and can serve as a powerful tool for identifying missing components, processes, and signaling pathways. This Special Issue welcomes papers relating to all types of fluorescent sensors designed for the detection of molecules and metabolites.

Guest Editors

Prof. Dr. Cheng-Hsun Ho

Agricultural Biotechnology Research Center, Academia Sinica, Taipei 115, Taiwan

Prof. Dr. Hiroshi Ueda

Tokyo Institute of Technology, Laboratory for Chemistry and Life Science, Tokyo, Japan

Deadline for manuscript submissions

closed (15 November 2022)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/107941

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

mdpi.com/journal/sensors

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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

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