Special Issue

Fluorescent Probes: Design and Biological Applications

Message from the Guest Editor

Fluorescent probes are molecules that absorb light of a specific wavelength and emit light of a different, typically longer, wavelength (a process known as fluorescence), and they are used to study biological samples due to their versatility, sensitivity and quantitative capabilities. In recent years, fluorescent probes based on small-molecule organic fluorophores, quantum dots and microspheres have been designed and applied to a wide range of biological research. The capability of qualitative analysis and quantitative detection has facilitated the development of fluorescent probes as valuable tools for the investigation of physiological and biochemical properties in biological samples. For this Special Issue, we welcome original research papers, as well as reviews, on current developments in the design of fluorescent probes and their biological applications, including the design of state-of-the-art biosensors for disease biomarkers, the characterization of biomolecules, biological analysis, and medical diagnostics.

Guest Editor

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Deadline for manuscript submissions

30 September 2025

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/206654

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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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