

Special Issue

Fluorescent Protein-Based Sensing and Detection

Message from the Guest Editors

In 2008, Osamu Shimomura, Martin Chalfie and Roger Tsien were awarded the Nobel Prize in Chemistry for “the discovery and development of the green fluorescent protein, GFP”. Indeed, since its cloning and characterization in the early 1990s, this fluorescent protein has become one of the most useful and versatile molecular tools in modern science. Osamu Shimomura characterized the chromophore of GFP and elucidated the mechanism of bioluminescence in *Aequora victoria*. Martin Chalfie expressed the protein in heterologous expression systems, and Roger Tsien developed a multitude of applications and mutants of fluorescent proteins. The possibilities and applications of GFP and its variants seem endless, with new disruptive technologies and assays emerging each year spanning across the fields of biology, chemistry, biophysics, and medicine. This Special Issue showcases original research on a selection of new developments, including in vitro and in vivo applications of fluorescent protein-based technologies. Special focus is dedicated to fluorescent protein-based sensing and detection systems, as well as review articles on these topics.

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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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