



## **Advanced Fluorescence Reporters in Chemistry and Biology I: Fundamentals and Molecular Design: 8 (Springer Series on Fluorescence)**

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Fluorescence reporter is the key element of any sensing or imaging technology. Its optimal choice and implementation is very important for increasing the sensitivity, precision, multiplexing power, and also the spectral, temporal, and spatial resolution in different methods of research and practical analysis. Therefore, design of fluorescence reporters with advanced properties is one of the most important problems. In this volume, top experts in this field provide advanced knowledge on the design and properties of fluorescent dyes. Organic dyes were the first fluorescent materials used for analytical purposes, and we observe that they retain their leading positions against strong competition of new materials – conjugated polymers, semiconductor nanocrystals, and metal chelating complexes. Recently, molecular and cellular biology got a valuable tool of organic fluorophores synthesized by cell machinery and incorporated into green fluorescent protein and its analogs. Demands of various fluorescence techniques operating in spectral, anisotropy, and time domains require focused design of fluorescence reporters well adapted to these techniques. Near-IR spectral range becomes more and more attractive for various applications, and new dyes emitting in this range are strongly requested. Two-photon fluorescence has become one of the major tools in bioimaging, and fluorescence reporters well adapted to this technique are in urgent need. These problems cannot be solved without the knowledge of fundamental principles of dye design and of physical phenomena behind their fluorescence response.

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