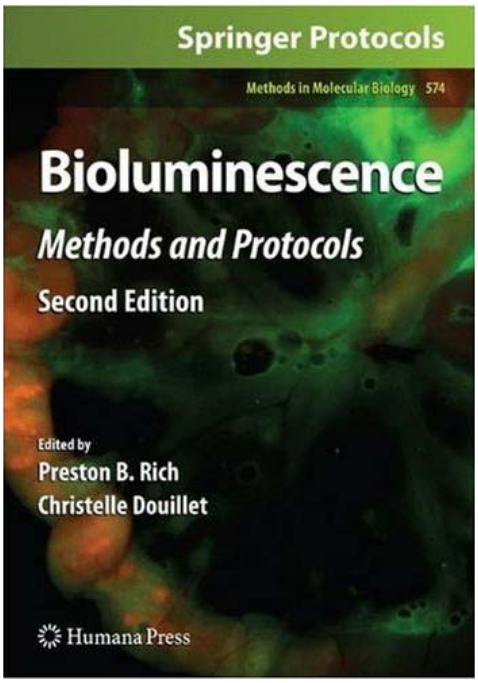
PRESTON B. RICH AND CHRISTELLE DOUILLET (EDITORS) BIOLUMINESCENCE: METHODS AND PROTOCOLS (METHODS IN MOLECULAR BIOLOGY)



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Through the study and application of bioluminescence, scientists have painstakingly harnessed a powerful tool that enables us to seek a deeper understanding of the complex mechanisms underpinning so many vital biologic systems. In this fully revised and updated second edition of *Bioluminescence: Methods and Protocols*, expert researchers contribute a readable and utilitarian compilation of the newest and most innovative techniques that have emerged in this rapidly expanding and progressively diverse field including methods to assess cell trafficking, protein-protein interactions, intracellular signaling, and apoptosis. Also opening up the possibility to visualize and quantify biological mechanisms in real-time and in in vivo settings, the volume also describes the in vivo study of bacterial or viral infections, transplanted cells, stem cells proliferation, vascular flow, and tumors. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters include brief introductions to their respective topics, lists of the necessary materials, equipment, and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and cutting-edge, *Bioluminescence: Methods and Protocols, Second Edition* provides protocols that are detailed enough to be followed and adapted by scientific teams who have no previous expertise in bioluminescence in order to foster the potentially numerous breakthroughs and new applications from basic to applied science and medicine that must continue to be developed.

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