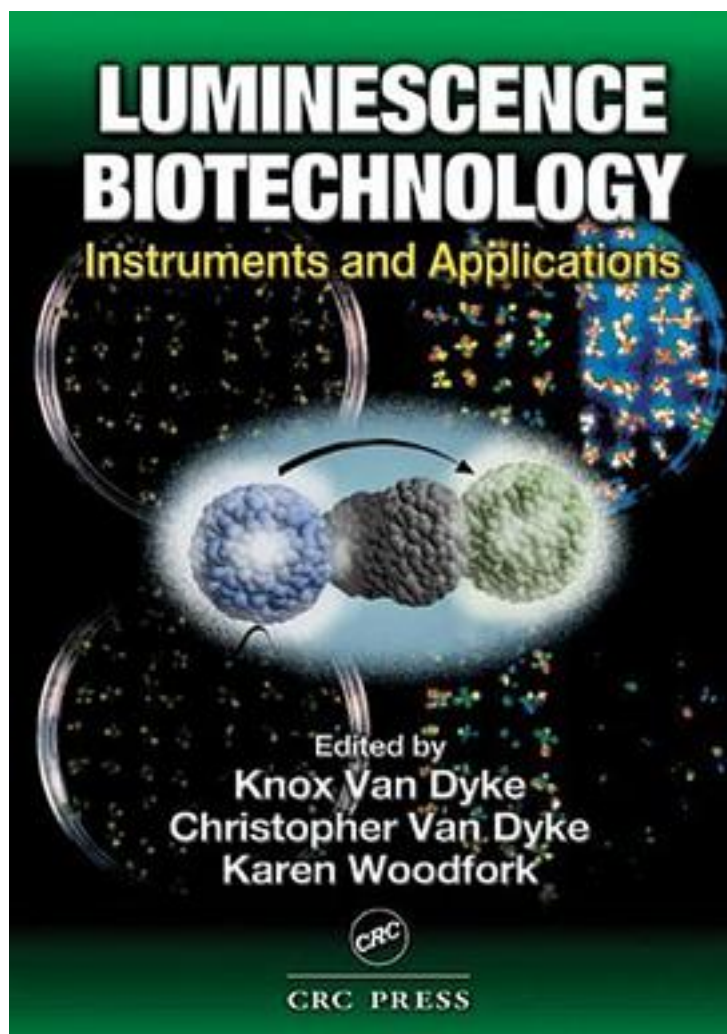


Luminescence Biotechnology



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The dangers and drawbacks inherent in radioactivity-based methods along with a

demonstrated and dramatic increase in sensitivity have precipitated a major shift towards luminescence measurements and visualization techniques. Their use has now spread even to traditional clinical environments, and their applications have grown from clinical assays to DNA sequencing, antioxidant detection, and high-throughput screening. "Luminescence Biotechnology: Instruments and Applications" furnishes a thorough review of the principles and applications of luminescence. With a consistent focus on practical considerations, contributions from a team of internationally acclaimed authors take you from the fundamentals of the different luminescence-based assay systems, calculation methods, and instruments through the spectrum of applications and latest research advances. Topics include gene and protein assays, oxidative stress and tissue aging, applications of luminescent microspheres, and proton image analysis. This book clearly identifies the advantages of luminescence over other assay techniques, discusses its potential pitfalls, and illustrates the broad range of its utility. Whether you are a newcomer to the field or a seasoned professional, this book provides a wealth of information that will bring you quickly up to date on the technology, recent research developments, and cutting-edge applications.

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