1. Record Nr. UNINA9910827584203321

Autore	Corey Michael J (Michael James), <1953->
Titolo	Coupled bioluminescent assays : methods, evaluations, and applications / / Michael J. Corey
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2009
ISBN	1-281-93903-X 9786611939038 0-470-42246-7 0-470-42245-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (326 p.)
Disciplina	612/.01442
Soggetti	Bioluminescence assay
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 265-289) and index.
Nota di contenuto	Introduction -- Coupled bioluminescent reactions in practice -- Coupled bioluminescent cytotoxicity assays -- The role of coupled bioluminescent assays in kinase screening and study -- Coupled bioluminescent phosphatase assays -- Acetylcholinesterase -- Measurement of nitric oxide synthase activity by coupled bioluminescence -- The coupled bioluminescent pyrophosphorolysis assay -- Coupled luminescent assays of G-protein-coupled receptors -- Coupled bioluminescent protease assays -- Coupled luminescent assays involving aequorin -- Coupled bioluminescent reporter assays -- Coupled bioluminescent assays : regulatory concerns -- Coupled bioluminescent determination of bioburden and sterility -- Environmental applications of coupled bioluminescent assays.
Sommario/riassunto	This book highlights the applications of coupled bioluminescence assay techniques to real-world problems in drug discovery, environmental and chemical analysis, and biodefense. It separates theoretical aspects from the applied sections in a clear and readable way. Coupled Bioluminescent Assays, explains the uses of CB technologies across drug discovery to analyze toxicity, drug receptors, and enzymes. It covers applications in environmental analysis and biodefense, including cytotoxicity, fertilizer and explosives analysis, and nerve agent and

pesticide detection. This is the premier reference