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Collana	Gale eBooks
Altri autori (Persone)	YangChaoyong James TanWeihong
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Soggetti	Molecular biology Cellular signal transduction
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Design, Synthesis, Purification and Characterization of Molecular Beacons -- Thermodynamic and Kinetic Properties of Molecular Beacons -- Application of Molecular Beacons in Real-Time PCR -- Molecular Beacons for Detection of Single Nucleotide Polymorphisms -- Molecular Beacons on Solid Surfaces -- Functional materials for signal amplification of molecular beacons -- Engineering Molecular Beacons for Advanced Applications -- Excimer Molecular Beacon -- Strategies for Delivering Molecular Beacons into Cells -- Molecular Beacons for Intracellular Analysis: Challenges and Successes -- Molecular Aptamer Beacons.
Sommario/riassunto	Molecular Beacons explains working principle of molecular beacons, discusses their design, synthesis, purification and characterization, explores their thermodynamic and kinetic properties, and more importantly, reviews their in vivo and in vitro applications with the emphasis on the design and modification of molecular beacons for in vivo mRNA imaging applications. This book is designed to bring together in a single resource an organized and comprehensive view of molecular beacons and will be a valuable resource for academic, clinical and industrial scientists and graduate students who may consider exploring molecular beacons in their research or practice. Chaoyong James Yang is the Lu Jiayi Professor of Chemistry at Xiamen University, China. Weihong Tan is a Distinguished Professor of Chemistry and

Biomedical Engineering at Hunan University, China and also a University  
of Florida Distinguished Professor and V. T. and Louis Jackson  
Professor of Chemistry at the University of Florida, USA.

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