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Titolo	Integrated strategies for drug discovery using mass spectrometry [[electronic resource] /] / [edited by] Mike S. Lee
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Descrizione fisica	1 online resource (570 p.)
Collana	Wiley Series on Pharmaceutical Science and Biotechnology: Practices, Applications and Methods
Altri autori (Persone)	LeeMike S. <1960->
Disciplina	615.19 615/.19
Soggetti	Mass spectrometry Drugs - Analysis High throughput screening (Drug development)
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Miniaturized formats for efficient liquid chromatography mass spectrometry-based proteomics and therapeutic development / Gary A. Valaskovic -- Mass spectrometry based drug screening assays for early phases in drug discovery / Marshall M. Siegel -- ESI-FTICR as a high throughput drug discovery platform / Kristin A. Sannes-Lowery -- Mass spectrometry based proteomic approaches for disease diagnosis and biomarker discovery / Thomas P. Conrads -- Metabonomic applications in toxicity screening and disease diagnosis / John P. Shockcor -- The central role of mass spectrometry in natural products discovery / Jeffrey R. Gilbert -- Application of mass spectrometry to compound library generation, analysis, and management / Xueheng Cheng -- A Combinatorial process for drug discovery / David S. Wagner -- Application of technological advances in biotransformation studies / Carmen L. Fernandez-Metzler -- Applications of mass spectrometry for the characterization of reactive metabolites of drugs

in discovery / Jim Wang -- Advances in high-throughput quantitative drug discovery bioanalysis / Bradley L. Ackermann -- New strategies for the implementation and support of bioanalysis in a drug metabolism environment / Walter A. Korfmacher -- An integrated LC/MS strategy for preclinical candidate optimization / Jonathan L. Josephs -- New approaches for method development and purification in lead optimization / Yining Zhao -- High throughput metabolic and physicochemical property analysis / Edward H. Kerns -- Organ perfusion and mass spectrometry / C. Gerald Curtis -- Sample preparation for drug discovery bioanalysis / David A. Wells -- Automation / John D. Laycock.

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Sommario/riassunto

New strategies and techniques for today's fast-paced discovery process Today, the pressure is on for high-throughput approaches to accelerate the generation, identification, and optimization of molecules with desirable drug properties. As traditional methods of analysis become antiquated, new analytical strategies and techniques are necessary to meet sample throughput requirements and manpower constraints. Among them, mass spectrometry has grown to be a front-line tool throughout drug discovery. Integrated Strategies for Drug Discovery Using Mass Spectrometry provides a thorough review o

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