

Integrated strategies for drug discovery using mass spectrometry

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Abstrak

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 of current analytical approaches, industry practices, and strategies in drug discovery. The topics represent current industry benchmarks in specific drug discovery activities that deal with proteomics, biomarker discovery, metabonomic approaches for toxicity screening, lead identification, compound libraries, quantitative bioanalytical support, biotransformation, reactive metabolite characterization, lead optimization, pharmaceutical property profiling, sample preparation strategies, and automation. THIS BOOK: Clearly explains how drug discovery and mass spectrometry are interconnected Discusses the uses and limitations of various types of mass spectrometry in various aspects of drug discovery Prominently features analytical applications that require trace-mixture analysis Provides industry applications and real-world examples Shares historical background information on various techniques to aid in the understanding of how and why new methods are now being employed to analyze samples.