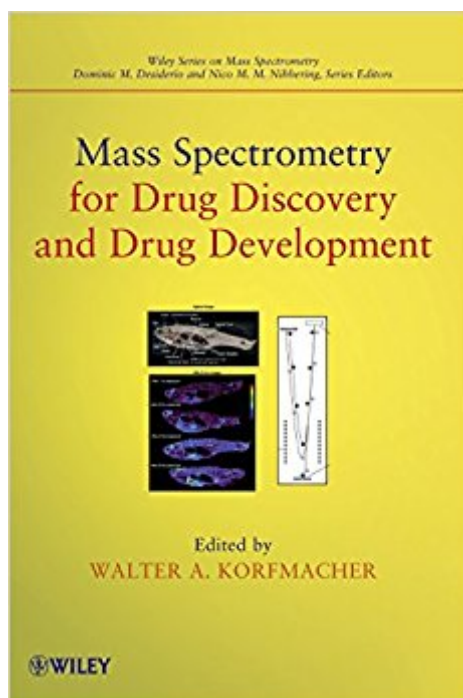


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# Mass Spectrometry For Drug Discovery And Drug Development



## Synopsis

Facilitates the discovery and development of new, effective therapeutics With coverage of the latest mass spectrometry technology, this book explains how mass spectrometry can be used to enhance almost all phases of drug discovery and drug development, including new and emerging applications. The book's fifteen chapters have been written by leading pharmaceutical and analytical scientists. Their contributions are based on a thorough review of the current literature as well as their own experience developing new mass spectrometry techniques to improve the ability to discover and develop new and effective therapeutics. Mass Spectrometry for Drug Discovery and Drug Development begins with an overview of the types of mass spectrometers that facilitate drug discovery and development. Next it covers: HPLC; high-resolution mass spectrometry for quantitative assays Mass spectrometry for siRNA Quantitative analysis of peptides Mass spectrometry analysis of biological drugs Applications that support medicinal chemistry investigations Mass spectrometry imaging and profiling Throughout the book, detailed examples underscore the growing role of mass spectrometry throughout the drug discovery and development process. In addition, images of mass spectra are provided to explain how results are interpreted. Extensive references at the end of each chapter guide readers to the primary literature in the field. Mass Spectrometry for Drug Discovery and Drug Development is recommended for readers in pharmaceuticals, including medicinal chemists, analytical chemists, and drug metabolism scientists. All readers will discover how mass spectrometry can streamline and advance new drug discovery and development efforts.

## Book Information

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WALTER A. KORFMACHER, PhD, is Director of Bioanalysis at Genzyme, a Sanofi company, and Associate Editor at the Journal of Mass Spectrometry. Previously, he held positions at the FDA's National Center for Toxicological Research, Schering-Plough Research Institute, Merck Research Laboratories, and Medpace Bioanalytical Laboratories. Dr. Korfmacher is an international leader in developing mass spectrometry techniques and strategies for new drug discovery and drug metabolism applications. A 2009 recipient of the CPSA Distinguished Analytical Scientist Award, he has published more than 150 articles in the scientific literature and made more than eighty presentations at various scientific forums.

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