1. Record Nr. UNINA9910146071003321 Autore Kinter Michael **Titolo** Protein sequencing and identification using tandem mass spectrometry [[electronic resource] /] / Michael Kinter, Nicholas E. Sherman New York, : Wiley-Interscience, c2000 Pubbl/distr/stampa **ISBN** 1-280-54166-0 9786610541669 0-471-23188-6 0-471-72198-0 Descrizione fisica 1 online resource (321 p.) Collana Wiley-Interscience series on mass spectrometry Altri autori (Persone) ShermanNicholas E Disciplina 572.85 Soggetti Nucleotide sequence **Proteins** Mass spectrometry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. PROTEIN SEQUENCING AND IDENTIFICATION USING TANDEM MASS Nota di contenuto SPECTROMETRY: CONTENTS: Series Preface: Preface: Chapter 1. An Introduction to Protein Sequencing Using Tandem Mass Spectrometry; 1.1. Introduction; 1.2. References; Chapter 2. The Primary Structure of Proteins and a Historical Overview of Protein Sequencing; 2.1. Protein and Peptide Structure; 2.2. Edman Degradation; 2.2.1. The Edman Reaction; 2.2.2. Incorporation of the Edman Degradation Reaction into Automated Protein Sequenators; 2.2.3. Edman Degradation in Proteomic Research; 2.3. Tandem Mass Spectrometry 2.3.1. A Brief History of the Application of Mass Spectrometry to Protein Sequencing2.3.2. Sequence Analysis of Peptides Using Electron Ionization Mass Spectrometry; 2.3.3. The Utilization of Fast Atom Bombardment with Tandem Mass Spectrometry to Sequence Peptides; 2.3.4. Internal Sequence Analysis of Proteins Using Electrospray Ionization-Tandem Mass Spectrometry and Matrix-Assisted Laser

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## Sommario/riassunto

How to design, execute, and interpret experiments for protein sequencing using mass spectrometry The rapid expansion of searchable protein and DNA databases in recent years has triggered an explosive growth in the application of mass spectrometry to protein sequencing. This timely and authoritative book provides professionals and scientists in biotechnology research with complete coverage of procedures for analyzing protein sequences by mass spectrometry, including step-by-step guidelines for sample preparation, analysis, and data interpretation. Michael Kinter and Nicholas Sherman