1. Record Nr. UNINA9911020451103321 Autore Hamdan Mahmoud <1947-> Titolo Proteomics today: protein assessment and biomarkers using mass spectrometry, 2D electrophoresis, and microarray technology // Mahmoud Hamdan, Pier Giorgio Righetti Hoboken, N.J., : John Wiley & Sons, 2005 Pubbl/distr/stampa **ISBN** 9786610275489 9781280275487 1280275480 9780470246849 0470246847 9780471709107 0471709107 9780471709152 0471709158 Descrizione fisica 1 online resource (446 p.) Collana Wiley-Interscience series in mass spectrometry Altri autori (Persone) RighettiP. G Disciplina 572/.6 Soggetti Proteins - Spectra Mass spectrometry **Proteomics** 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. Nota di contenuto PROTEOMICS TODAY; CONTENTS: PREFACE TO PART I: ACKNOWLEDGMENT; I INTRODUCTION TO PART I; 1 INSTRUMENTATION AND DEVELOPMENTS; 1.1 Introduction; 1.2 Ionization Techniques for Macromolecules; 1.2.1 (252)Cf Plasma Desorption Ionization; 1.2.2 Fast Atom/Ion Bombardment; 1.2.3 Type of Fragment Ions and Nomenclature: 1.3 Examples on Analytical Solutions Based on FAB-MS: 1.3.1 Detection of Abnormalities in Hemoglobin; 1.3.2 Glycoprotein Structure Determination; 1.3.3 Early Scanning Functions on Sector Machines; 1.4 Electrospray Ionization; 1.5 Matrix-Assisted Laser **Desorption Ionization** 1.5.1 MALDI at High Pressure1.5.2 Desorption Ionization on Silicon

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The last few years have seen an unprecedented drive toward the application of proteomics to resolving challenging biomedical and biochemical tasks. Separation techniques combined with modern mass spectrometry are playing a central role in this drive. This book discusses the increasingly important role of mass spectrometry in proteomic research, and emphasizes recent advances in the existing technology and describes the advantages and pitfalls as well.* Provides a scientifically valid method for analyzing the approximatey 500,000 proteins that are encoded in the human genome* Explains t

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