Record Nr. UNINA9910136773403321 Autore Han Xianlin **Titolo** Lipidomics: comprehensive mass spectrometry of lipids / / Xianlin Han Pubbl/distr/stampa Hoboken, New Jersey: ,: John Wiley & Sons, Incorporated, , [2016] ©2016 **ISBN** 1-119-08527-6 1-119-08528-4 Descrizione fisica 1 online resource (499 p.) Collana Wiley series on mass spectrometry Disciplina 572/.57 Soggetti Lipids - Analysis Lipids - Spectra Mass spectrometry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover: Title Page: Copyright: Dedication: Contents: Foreword: Preface: Abbreviations; Part I Introduction; Chapter 1 Lipids and Lipidomics; 1.1 Lipids; 1.1.1 Definition; 1.1.2 Classification; 1.1.2.1 Lipid MAPS Approach; 1.1.2.2 Building Block Approach; 1.2 Lipidomics; 1.2.1 Definition; 1.2.2 History of Lipidomics; References; Chapter 2 Mass Spectrometry for Lipidomics: 2.1 Ionization Techniques: 2.1.1 Electrospray Ionization; 2.1.1.1 Principle of Electrospray Ionization; 2.1.1.2 Features of Electrospray Ionization for Lipid Analysis 2.1.1.3 Advent of ESI for Lipid Analysis: Nano-ESI and Off-Axis Ion Inlets2.1.2 Matrix-Assisted Laser Desorption/Ionization; 2.2 Mass Analyzers; 2.2.1 Quadrupole; 2.2.2 Time of Flight; 2.2.3 Ion Trap; 2.3 Detector: 2.4 Tandem Mass Spectrometry Techniques: 2.4.1 Product-Ion Analysis; 2.4.2 Neutral-Loss Scan; 2.4.3 Precursor-Ion Scan; 2.4.4 Selected Reaction Monitoring; 2.4.5 Interweaving Tandem Mass Spectrometry Techniques: 2.5 Other Recent Advances in Mass

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