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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 Spectrometry for Lipid Analysis; 2.5.1 Ion-Mobility Mass Spectrometry; 2.5.2 Desorption Electrospray Ionization; References Chapter 3 Mass Spectrometry-Based Lipidomics Approaches3.1 Introduction; 3.2 Shotgun Lipidomics: Direct Infusion-Based Approaches; 3.2.1 Devices for Direct Infusion; 3.2.2 Features of

Shotgun Lipidomics; 3.2.3 Shotgun Lipidomics Approaches; 3.2.3.1 Tandem Mass Spectrometry-Based Shotgun Lipidomics; 3.2.3.2 High Mass Accuracy-Based Shotgun Lipidomics; 3.2.3.3 Multidimensional MS-Based Shotgun Lipidomics; 3.2.4 Advantages and Drawbacks; 3.2.4.1 Tandem Mass Spectrometry-Based Shotgun Lipidomics; 3.2.4.2 High Mass Accuracy-Based Shotgun Lipidomics; 3.2.4.3 Multidimensional Mass Spectrometry-Based Shotgun Lipidomics; 3.3 LC-MS-Based Approaches; 3.3.1 General; 3.3.1.1 Selected Ion Monitoring for LC-MS; 3.3.1.2 Selected/Multiple Reaction Monitoring for LC-MS; 3.3.1.3 Data-Dependent Analysis after LC-MS; 3.3.2 LC-MS-Based Approaches for Lipidomics; 3.3.2.1 Normal-Phase LC-MS-Based Approaches; 3.3.2.2 Reversed-Phase LC-MS-Based Approaches; 3.3.2.3 Hydrophilic Interaction LC-MS-Based Approaches; 3.3.2.4 Other LC-MS-Based Approaches; 3.3.3 Advantages and Drawbacks; 3.3.4 Identification of Lipid Species after LC-MS; 3.4 MALDI-MS for Lipidomics; 3.4.1 General; 3.4.2 Analysis of Lipid Extracts; 3.4.3 Advantages and Drawbacks; 3.4.4 Recent Advances in MALDI-MS for Lipidomics; 3.4.4.1 Utilization of Novel Matrices; 3.4.4.2 (HP)TLC-MALDI-MS; 3.4.4.3 Matrix-Free Laser Desorption/Ionization Approaches; References; Chapter 4 Variables in Mass Spectrometry for Lipidomics; 4.1 Introduction; 4.2 Variables in Lipid Extraction (i.e., Multiplex Extraction Conditions); 4.2.1 The pH Conditions of Lipid Extraction; 4.2.2 Solvent Polarity of Lipid Extraction; 4.2.3 Intrinsic Chemical Properties of Lipids; 4.3 Variables in the Infusion Solution; 4.3.1 Polarity, Composition, Ion Pairing, and Other Variations in the Infusion Solution
