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Nota di contenuto	Intro -- ARGININE AMINO ACID -- ARGININE AMINO ACID -- Contents -- Preface -- Chapter 1 Analytical Methods of the Determination of Arginine Amino Acid -- Abstract -- Introduction -- Sources -- Dietary Sources -- Biosynthesis -- Functions and Importance of Arginine -- Methods of Analysis -- Liquid Chromatography -- Ion Exchange Separation -- Reverse-Phase Liquid Chromatography -- Gas Chromatography -- Capillary Electrophoresis -- Nuclear Magnetic Resonance Spectroscopy -- Methodological Considerations Regarding the Quantification of L-Arginine in Biological Matrices -- Derivatization Reagents for LC Analysis -- Ninhydrin -- Dansyl Chloride -- Dabsyl Chloride -- 1-Fluoro-2, 4-Dinitrobenzene -- Phenylisothiocyanate -- Ortho-Phtaldehyde -- 9H-Fluoren-9-Ylmethyl Chloroformate -- Diethyl 2(Ethoxymethylidene)Propanedioate -- 6-Aminoquinolyl-N-Hydroxysuccinimidyl Carbamate -- Conclusion -- References -- Chapter 2 Alternative Metabolic Pathways of Arginine and their Pathophysiological Roles -- Abstract -- Abbreviations -- Introduction - Arginine, a Functional Amino Acid with Several Metabolic Roles -- Nitric Oxide Synthase -- Arginase -- Alternative Pathways of Arginine Metabolism -- Inhibition of NOS and Arginase Isoforms -- NOS Inhibitors -- Arginase Inhibitors -- NOS Isoforms in Diseases -- The Involvement of NOS Isoforms in the Obesity and Metabolic Syndrome -- Nitric Oxide and Preeclampsia -- Arginase in Diseases -- Arginase in

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Sommario/riassunto

Arginine is a conditionally nonessential amino acid, meaning most of the time it can be manufactured by the human body, and does not need to be obtained directly through the diet. This book presents topical research in the study of arginine amino acids.