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Autore	Kubicek Paul
Titolo	Organized labor in postcommunist states : from solidarity to infirmity / / Paul J. Kubicek
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ISBN	0-8229-7267-0
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Collana	Pitt Series in Russian and East European Studies
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Soggetti	Labor unions - Europe, Eastern Post-communism - Europe, Eastern
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Autore	Masella Roberta
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Nota di contenuto	GLUTATHIONE AND SULFUR AMINO ACIDS IN HUMAN HEALTH AND DISEASE; CONTENTS; PREFACE; CONTRIBUTORS; I INTRODUCTION; 1 GLUTATHIONE AND THE SULFUR-CONTAINING AMINO ACIDS: AN OVERVIEW; 1.1 Introduction; 1.2 Why Sulfur-Containing Amino Acids?; 1.3 S-Adenosylmethionine, Nature's Wonder Cofactor; 1.4 Glutathione; 1.5 Taurine-the Second Essential Sulfur-Containing Amino Acid?; 1.6 Conclusions; Acknowledgments; References; II CHEMISTRY AND METABOLISM OF GSH AND SULFUR AMINO ACIDS; 2 SULFUR AMINO ACIDS CONTENTS OF DIETARY PROTEINS: DAILY INTAKE AND

REQUIREMENTS; 2.1 Introduction
2.2 Sulfur Amino Acids (SAA) Content of Dietary Protein2.3 Sulfur Amino Acid Intake; 2.4 Nutritional Requirement for Total Sulfur Amino Acids; 2.5 Conclusions; References; 3 CELLULAR COMPARTMENTALIZATION OF GLUTATHIONE; 3.1 Introduction; 3.2 Glutathione Content in Cells; References; 4 INTESTINAL METABOLISM OF SULFUR AMINO ACIDS; 4.1 Introduction; 4.2 Isotopic Approaches to Study Metabolism; 4.3 Evidence of Gut Sulfur Amino Acid Metabolism; 4.4 Other Key Players in Intestinal Sulfur Amino Acid Metabolism; 4.5 Cysteine in Redox Function and Oxidant Stress in the Gut
4.6 Pathophysiology of Sulfur Amino Acid Metabolism in the GIT4.7 Conclusions; References; 5 HEPATIC SULFUR AMINO ACID METABOLISM; 5.1 Introduction; 5.2 Dietary Relation between Methionine and Cysteine; 5.3 Metabolic Relation between Hepatic Sulfur Amino Acids, B Vitamins, and Methyl Group Metabolism; 5.4 Regulation of Sulfur Amino Acid Metabolism and Related Metabolic Pathways in the Liver; 5.5 Impact of Physiologic and Nutritional Factors on Sulfur Amino Acid Metabolism; 5.6 Conclusions; References; III ANTIOXIDANT AND DETOXIFICATION ACTIVITIES
6 GLUTATHIONE AND SULFUR CONTAINING AMINO ACIDS: ANTIOXIDANT AND CONJUGATION ACTIVITIES6.1 Introduction; 6.2 Reactive Oxygen Species and Antioxidants; 6.3 Glutathione Redox Cycle; 6.4 Regulation of GSH and Cysteine Levels; 6.5 Biotransformation; 6.6 ROS-Mediated Cellular Signaling; 6.7 Transcription Regulation of Antioxidant and Conjugation Enzymes; 6.8 Oxidative Stress and Diseases; References; 7 GLUTAREDOXIN AND THIOREDOXIN ENZYME SYSTEMS: CATALYTIC MECHANISMS AND PHYSIOLOGICAL FUNCTIONS; 7.1 Introduction; 7.2 General Characteristics of Glutaredoxins
7.3 General Characteristics of Thioredoxins7.4 Glutaredoxin Mechanism of Action; 7.5 Thioredoxin Mechanism of Action; 7.6 Control of Grx Expression; 7.7 Control of Trx Expression in Mammalian Systems; 7.8 Cellular Functions of Grx; 7.9 Cellular Functions of Trx; 7.10 Reversible Sulfhydryl Oxidation and Disease; 7.11 Conclusions; References; 8 METHIONINE SULFOXIDE REDUCTASES: A PROTECTIVE SYSTEM AGAINST OXIDATIVE DAMAGE; 8.1 Introduction; 8.2 History of the Msr System; 8.3 MsrA and MsrB Protein Structure and Mechanism of Action; 8.4 Msr Reducing Requirement; 8.5 Other Members of the Msr Family
8.6 The Msr System: Both a Repair Enzyme and a Scavenger of ROS

Sommario/riassunto

The complex roles of glutathione and sulfur amino acids in human health Glutathione (?-L-glutamyl-L-cysteinylglycine, GSH) is a major antioxidant acting as a free radical scavenger that protects the cell from reactive oxygen species (ROS). Sulfur amino acids (SAAs), such as methionine and cysteine, play a critical role in the maintenance of health. GSH depletion as well as alterations of SAA metabolism are linked to a host of disease states including liver cirrhosis, various pulmonary diseases, myocardial ischemia and reperfusion injury, aging, Parkinson's disease, Alzheimer's disease