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Nota di contenuto	Intro -- INSULIN RESISTANCE -- INSULIN RESISTANCE -- CONTENTS -- PREFACE -- PATHOPHYSIOLOGICAL BASISFOR ANTIOXIDANT THERAPY OF INSULIN RESISTANCE -- ABSTRACT -- INTRODUCTION -- PATHOPHYSIOLOGY OF INSULIN RESISTANCE -- Insulin-Resistance: Mechanisms of Disease -- Glucose Toxicity in IR -- IR and Oxidative Stress Cross-Talking -- Polyol Pathway -- Glucosamine Pathway -- Kinase C Protein Activation -- TNF-alpha Activate JNK -- Advanced Glycation End Products and Oxidative Stress (AGEs) -- ANTIOXIDANT THERAPY IN INSULIN-RESISTANCE -- Resveratrol -- Antioxidant Effect of Resveratrol in Hepatoprotection -- Antioxidant Effect of Resveratrol in Pancreatic Protection -- Anti-Obesity Effects -- Anti-Diabetic Effects -- Antioxidant Vitamins -- Flavonoids -- Other Antioxidants -- CONCLUSION AND PERSPECTIVES -- REFERENCES -- NEW INSIGHT INTO THE REGULATION OF INSULIN RESISTANCE -- ABSTRACT -- 1. INTRODUCTION -- 2. THE EFFECT OF ENDOCRINE HORMONES ON INSULIN RESISTANCE -- 2.1. Galanin and Insulin Resistance -- 2.2. Ghrelin and Insulin Resistance -- 2. 3. Leptin and Insulin Resistance -- 2.4. Adiponectin and Insulin Resistance -- 2.5. RBP4 and Insulin Resistance -- 3. THE ROLE OF THE AUTONOMIC NERVOUS SYSTEM IN REGULATING INSULIN RESISTANCE -- 4. THE GASTROINTESTINAL TRACT MICROBIOTA IN THE DEVELOPMENT OF INSULIN RESISTANCE -- 5. PPARS AND INSULIN RESISTANCE -- 6. VITAMIN D DEFICIENCY IN THE

DEVELOPMENT OF INSULIN RESISTANCE -- 7. CURRENT GUIDELINES ON RISK FACTORS FOR INSULIN RESISTANCE, DIRECT AND INDIRECT INSULIN RESISTANCE ASSESSMENT METHODS -- 7.1. CRP -- 7.2. Hyperinsulinemic Euglycemic Glucose Clamp -- 7.3. Oral Glucose Tolerance Test -- 7. 4. HOMA- Insulin Resistance (IR) -- 8. THE NEW INSIGHT INTO PRIMARY PREVENTION AND THERAPY OF INSULIN RESISTANCE -- 8.1. SGLT2 -- 8.2. MicroRNAs -- CONCLUSION -- REFERENCES.

INSULIN RESISTANCE AFTER SEVERE BURN INJURY -- ABSTRACT -- ABBREVIATIONS -- INTRODUCTION -- MATERIALS AND METHODS -- RESULTS -- Blood Glucose Levels before and after EIC -- PET Study of Glucose Uptake, Oxygen Extraction Fraction and Blood Flow in Hind Limb Skeletal Muscle -- Changes in Endogenous Glucose Production After EIC -- DISCUSSION -- ACKNOWLEDGMENTS -- REFERENCES -- LIPOPROTEIN LIPASE AND INSULIN RESISTANCE -- ABSTRACT -- INTRODUCTION -- BACKGROUND OF LIPOPROTEIN LIPASE (LPL) -- RELATIONSHIP BETWEEN LPL AND LIPID METABOLISM AND ATHEROSCLEROSIS -- EFFECT OF LPL ACTIVATOR NO-1886 ON LPL, LIPID METABOLISM AND ATHEROSCLEROSIS -- EFFECT OF LPL ACTIVATOR NO-1886 ON FATTY LIVER -- RELATIONSHIP BETWEEN LPL AND OBESITY AND INSULIN RESISTANCE -- REFERENCES -- INDEX.

Sommario/riassunto

The hallmark of insulin resistance is an obstacle to glucose uptake, resulting in hyperglycemia and hyperinsulinemia as well as type 2 diabetes mellitus. The prevalence of diabetes mellitus is rapidly increasing worldwide and is becoming an important health problem. In this book, the authors present current research in the study of insulin resistance including: the pathophysiological basis for antioxidant therapy of insulin resistance; new insight into the regulation of insulin resistance; burn injury and its association with insulin resistance and hyperglycemia which complicates clinical management; and lipoprotein lipase and its role in insulin resistance.
