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Titolo	Pathophysiology of Obesity-Induced Health Complications / / edited by Paramjit S. Tappia, Bram Ramjiawan, Naranjan S. Dhalla
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Nota di contenuto	Prevalence, consequences, causes and management of obesity -- Adipocytes Under Environmental Assault: Targets for Obesity? -- Obesity and its Complications Pathogenesis -- Extracellular Vesicles and Circulating miRNAs - Exercise -Induced Mitigation of Obesity and Associated Metabolic Diseases -- Pathophysiology of Obesity Induced Hyperglycemia and Insulin Resistance -- Obesity and Osteoarthritis: Are Adipokines Bridging Metabolism, Inflammation, and Biomechanics -- Understanding the Initiation and Progression of Diet-Induced Obesity and Associated Pathophysiology: Lessons Learned from a Rat Model -- Immune Modulation and Macrophage Polarization in Pathogenesis of Pancreatic Dysfunction in Obesity -- Association Between Obesity and Poor Sleep: A Review of Epidemiological Evidence -- Exploration of the Bidirectionality of Obesity and Depression by means of the Neuropsychological Model of Obesity Genesis -- Obesity-Induced Non-Alcoholic Fatty Liver Disease (NAFLD): role of hyperhomocystenemia -- Mechanisms of Obesity Related Kidney Disease -- Consequences of Maternal Obesity on Neonatal Outcomes and Cardio-Metabolic Health in Infancy -- The Developmental Mechanisms of Obesity by Maternal Obesity -- Diet Induced Maternal Hypercholesterolemia and In Utero Fetal Programming -- Modified Denouement in Bariatric Surgery due to Genetic Polymorphism -- Anti-Inflammatory Components from Functional Foods for Obesity --

Attenuation of Obesity-Associated Oxidative Stress by Cucurbita maxima Seed Oil in High Fat Diet Induced Obese Rats -- Pathophysiology of Obesity-Related Non-Communicable Chronic Diseases and Advancements in Preventive Strategies.

Sommario/riassunto

According to the World Health Organization, the epidemic of global obesity has nearly tripled since 1975. In 2016, more than 1.9 billion adults were overweight, over 650 million of which were obese. Being overweight and obese has been linked to a number of non-communicable, chronic diseases. Pathophysiology of Obesity-Induced Health Complications is a compilation of review articles dedicated to describe co-morbidities associated with obesity. The wide range that is covered is of significant interest to basic research scientists, clinicians and graduate students who are engaged in studying obesity-induced health complications. Furthermore, this book highlights the potential of novel approaches for the prevention and treatment of obesity and its related illnesses. Nineteen articles in this book are organized in four sections that are designed to provide an overview of obesity-induced health complications. The first section serves as an introductory section on the prevalence, causes, consequences, treatments and preventive approaches for obesity. Section two covers the metabolic disturbances and inflammation due to obesity. The third section is focused on neurological and visceral complications as a consequence of obesity. The final section covers strategies for the prevention of obesity-induced complications. The book illustrates that obesity can result in a diverse range of pathophysiological conditions that adversely affect health.