1. Record Nr. UNINA9910350356603321

Autore	Cho Kyung-Hyun
Titolo	High-Density Lipoproteins as Biomarkers and Therapeutic Tools : Volume 1. Impacts of Lifestyle, Diseases, and Environmental Stressors on HDL / / by Kyung-Hyun Cho
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-7387-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXIV, 383 p. 244 illus.)
Disciplina	611.01816
Soggetti	Molecular biology Pharmaceutical technology Biomedical engineering Diabetes Molecular Medicine Pharmaceutical Sciences/Technology Biomedical Engineering/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Chapter 1. Understanding HDL: overview -- 1-1.HDL and disease -- 1-2.HDL functions and clinical applications -- 1-3.HDL composition : apolipoproteins and enzymes -- 1-4.Maturation of HDL -- 1-5.HDL and blood pressure -- Chapter 2. Change of HDL by life style -- 2-1.Exercise and HDL -- 2-2.Smoking and HDL -- 2-3.Elderly' s HDL -- 2-4.HDL depends on body weight -- 2-5.HDL from obese but healthy subject -- 2-6.HDL and apoA-I in smokers' breast milk -- 2-7. Breast milk from frequent trans fatty acid consumers -- 2-8.HDL in cord blood from small neonates -- Chapter 3. Change of HDL in various diseases -- 3-1.HDL from patients with myocardial infarction -- 3-2.HDL from patients with female angina pectoris -- 3-3.HDL and metabolic syndrome -- 3-4.HDL from male patients with atrial fibrillation -- 3-5.HDL from female patients with atrial fibrillation -- 3-6.HDL from patients with hemorrhagic fever with renal syndrome -- 3-7.HDL from patients with rheumatoid arthritis -- 3-8.HDL and prehypertension -- Chapter 4. Detriment of HDL by pollutant and its

evaluation -- 4-1.Particulate matter and HDL -- 4-2.Phthalate and HDL -- 4-3.Cadmium and HDL -- 4-4.Humidifier Sterilizer and HDL -- 4-5. Detection of dysfunctional HDL by microfluidics -- 4-6.Evaluation of dysfunctional HDL using zebrafish embryo -- Chapter 5. Change of HDL by food ingredient -- 5-1.Fructose and apoA-I -- 5-2.Fructose and impairment of HDL functionality -- 5-3.Artificial sweeteners and apoA-I -- 5-4.Artificial sweeteners (aspartame, saccharin) and HDL -- 5-5.Aldoketohexoses and HDL -- 5-6.Iron and HDL -- 5-7.Trans fat and HDL -- 5-8.Salt and HDL 576 p -- Summary and perspectives.

Sommario/riassunto

This book is the first of two volumes that offer a comprehensive, up-to-date account of current knowledge regarding high-density lipoprotein (HDL), the changes that occur in HDL under different conditions, the clinical applications of HDL, and means of enhancing HDL functionality. HDL comprises a diverse group of lipoproteins and its composition and metabolism are dynamic. In this volume, the focus is on the changes observed in HDL under different health statuses, with particular attention to the functional and structural correlations of HDL and apolipoprotein A-1. The impacts of a wide variety of factors on HDL are examined in depth, covering, for example, diet, exercise, smoking, age, diverse diseases, and different forms of environmental pollution. It has long been known that HDL has anti-atherosclerotic and antidiabetic properties, and more recently its anti-aging activities have been recognized. These benefits of HDL are highly dependent on its lipids, proteins, apolipoproteins, and enzymes, and specifically their composition and ratios. In documenting the latest knowledge in this field, this volume will be of interest to both researchers and clinicians.

2. Record Nr. UNINA9910300293103321

Autore	Cinti Saverio
Titolo	Obesity, Type 2 Diabetes and the Adipose Organ : A Pictorial Atlas from Research to Clinical Applications / / by Saverio Cinti
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-40522-5
Edizione	[2nd ed. 2018.]
Descrizione fisica	1 online resource (453 pages) : illustrations
Disciplina	611.01827
Soggetti	Diabetes Endocrinology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	The Adipose Organ -- Brown Adipose Tissue (BAT) -- White Adipose Tissue (WAT) -- The Adipose Organ: Cold Acclimation -- BAT -- WAT -- The Adipose Organ: Warm Acclimation: BAT -- The Obese Adipose Organ: BAT -- The Fasted Adipose Organ: WAT -- BAT -- The Adipose Organ During Lactation: WAT -- BAT -- The Fetal Adipose Organ -- The Adipose Organ In Genetically Modified Models. .
Sommario/riassunto	This richly illustrated book provides a detailed description of the gross anatomy, light microscopy, immunohistochemistry, and electron microscopy of the adipose organ, which comprises subcutaneous and visceral fat depots. Findings in mice of differing genetic backgrounds (obesity prone and resistant) and maintained in standard and various physiologic and pathologic conditions are presented. The latter conditions include chronic cold exposure, warm exposure, fasting, pregnancy–lactation, and obesity. Features of the fetal adipose organ are described in a separate chapter, and results from transgenic mice are also presented when relevant. The human adipose organ is addressed in several chapters that include magnetic resonance and fetal findings. Most of the results regarding the adipose organ anatomy in different physiologic conditions are new, and the story of pink adipocytes (white-to-pink transdifferentiation) is quite innovative. The concept of using browning of the adipose organ as a therapeutic tool for obesity must take into consideration the anatomic

and morphologic aspects described here, and the study of pink adipocytes could lead to a better comprehension of breast cancer tumor biology. This book will be of interest to all scientists who deal with obesity and related disorders.