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Nota di contenuto	Sphingolipids in Cancer: Sphingosine Kinase / Sphingosine 1-Phosphate Signaling in Cancer Therapeutics and Drug Resistance -- Using ASMase knockout Mice to Model Human Diseases -- New Perspectives on the Role of Sphingosine 1-Phosphate in Cancer -- Sphingolipids and Response to Chemotherapy -- Lung Cancer and Lung Injury: The Dual Role of Ceramide -- Sphingolipids Role in Radiotherapy for Prostate Cancer -- Sphingolipids in Cardio-Reno-vascular diseases: Sphingolipid Metabolism and Atherosclerosis -- Cardiovascular Effects of Sphingosine-1-Phosphate S1P -- Cross-Talk between Ceramide and Redox Signaling: Implications for Endothelial Dysfunction and Renal Disease -- Sphingolipids in Inflammation, Infection and Lung Diseases -- Sphingolipids in Lung Endothelial Biology and Regulation of Vascular Integrity -- Sphingolipids in Acute Lung Injury -- The Involvement of Sphingolipids in Chronic Obstructive Pulmonary Diseases -- Ceramide in Cystic Fibrosis.- Regulation of the

Sphingosine Kinase/Sphingosine 1 Phosphate Pathway -- Bacterial Infections and Ceramide -- Viral Infections and Sphingolipids -- Ceramide in Plasma Membrane Repair -- Sphingolipids and Inflammatory Diseases of the Skin -- Sphingolipids in Diabetes -- Sphingolipids in Neuro-psychiatry and Muscle Diseases: Neuronal Forms of Gaucher Disease -- Sphingolipids in Neuroinflammation -- Sphingolipids in Psychiatric Disorders and Pain Syndromes -- Role of Sphingosine-1-Phosphate in Sceletal Muscle Cell Biology.

Sommario/riassunto

Sphingolipids are lipid components of the plasma membrane of eukaryotic cells with an important function in signaling mechanisms in the cell. This book provides insight into the physiological and pathophysiological role of sphingolipids and in particular its derivative ceramide. The function of Sphingolipids in cell signaling with regard to infectious and lung diseases, cancer, cardiovascular diseases and neuropsychiatric disorders are described and treated in distinct parts. Together with Volume 215 from the same Editors, the collection represents a unique, comprehensive work on Sphingolipids, providing information on both: Sphingolipid basic biology as well as its important function in a (patho)physiological context. The book is written for scientists in pharmacology, biochemistry and cell biology with a focus on biomedical research as well as for clinicians in pharmacology, oncology, cardiology, neurology and infectious disease. .