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Autore	BAUDELAIRE, Charles
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Titolo	Ferroptosis in Health and Disease / / edited by Daolin Tang
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ISBN	3-030-26780-6
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Descrizione fisica	1 online resource (VI, 324 p. 36 illus., 35 illus. in color.)
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Nota di contenuto	Lipid metabolism and ferroptosis -- 2. Iron metabolism and ferroptosis -- 3. Regulation and Function of Autophagy During Ferroptosis -- 4. Heat Shock Proteins: Endogenous Modulators of Ferroptosis -- 5. Biological Aspects of Endoplasmic Reticulum Stress in Ferroptosis -- 6. Gpx4 in ferroptosis -- 7. ACSL4 as the First Reliable Biomarker of Ferroptosis Under Pathophysiological Conditions -- 8. Regulation of Ferroptosis by MicroRNAs -- 9. Ferroptosis in Cardiovascular Disease -- 10. Ferroptosis in Nervous System Diseases -- 11. Regulation of Ferroptosis Through the Cysteine-Glutathione Redox Axis -- 12. Iron-Sulfur Cluster Metabolism Impacts Iron Homeostasis, Ferroptosis Sensitivity, and Human Disease -- 13. Ferroptosis in Liver Disease -- 14. p53 and Ferroptosis -- 15. Ferroptosis in Hemolytic Disorders -- 16. Lipoxygenase in Ferroptosis -- 17. Ferroptosis in Cancer Disease -- 18. Ferroptosis in Cancer Therapy.
Sommario/riassunto	This book sheds new light on ferroptosis, as an only recently recognised form of regulated cell death. Its respective chapters address the numerous implications that ferroptosis can have for virtually all aspects of metabolism. They also share insights on the morphological characterisation of ferroptosis and highlight the different pathways of induction. Accordingly, the book offers a unique perspective on a mechanism that is involved in a multitude of pathologies, including cancer cell death, neurotoxicity, neurodegenerative diseases, acute renal failure, drug-induced hepatotoxicity, tissue ischemia/reperfusion injury, and T cell immunity. Readers will learn in which cell types this form of regulated cell death is likely to occur, and how it can be pharmacologically influenced, making the book a fascinating and informative read not only for scientists working in cell biology, but also for clinicians in the field of cancer research. .