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Sommario/riassunto

This volume presents a unique comparative treatment of the role oxidative stress plays in vertebrates and invertebrates in multiple organ systems with regards to cell death, development, aging, and human diseases, and anti-oxidant therapy. It offers comprehensive reviews of the current understanding of oxidative stress-mediated physiology and pathology as well as directions for future research. It also provides current information on the role of oxidative stress in neurodegenerative diseases, cardiovascular diseases, and various types of cancer mediated by oxidative stress.