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Altri autori (Persone)	FarooquiTahira FarooquiAkhlaq A
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Survival Strategy and Disease Pathogenesis According to the Nrf2-Small Maf Heterodimer; 6: Caloric Restriction and Oxidative Stress; 7: Pathogenesis of Neurodegenerative Diseases: Contribution of Oxidative Stress and Neuroinflammation; 8: Neurosteroids in Oxidative Stress-Mediated Injury in Alzheimer Disease; 9: Oxidative Stress in Adult Neurogenesis and in the Pathogenesis of Alzheimer Disease; 10: Oxidative Stress and Parkinson Disease; 11: Oxidative Stress in Cardiovascular Diseases; 12: Oxidative Stress and Aging: A Comparison between Vertebrates and Invertebrates; 13: Oxidative Stress-Mediated Signaling Pathways by Environmental Stressors; 14: Selenoproteins in Cellular Redox Regulation and Signaling; 15: Antioxidant Therapy and its Effectiveness in Oxidative Stress-Mediated Disorders; 16: The Protective Role of Grape Seed Polyphenols Against Oxidative Stress in Treating Neurodegenerative Diseases; 17: Pharmacological and Therapeutic Properties of Propolis (Bee Glue); Part II: Oxidative Stress in Invertebrates; 18: Endocrine Control of Oxidative Stress in Insects; 19: Oxidative Stress in the Airway System of the Fruit Fly *Drosophila melanogaster*; 20: Molecular Mechanisms of Antioxidant Protective Processes in Honeybee *Apis mellifera*; 21: Molecular Basis of Iron-induced Oxidative Stress in the Honeybee Brain: A Potential Model System of Olfactory Dysfunction in Neurological Diseases; 22: Modulation of Oxidative Stress by Keap1/Nrf2 Signaling in *Drosophila*: Implications for Human Diseases; 23: Orchestration of Oxidative Stress Responses in *Drosophila melanogaster*: A Promoter Analysis Study of Circadian Regulatory Motifs; 24: The Protective Role of Sestrins Against Chronic TOR Activation and Oxidative Stress; 25: Current Advances in the Studies of Oxidative Stress and Age-Related Memory Impairment in *C. elegans*; 26: Oxidative Challenge and Redox Sensing in Mollusks: Effects of Natural and Anthropogenic Stressors; 27: Perspective and Directions for Future Studies; Index

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.
