



Inflammation, Aging, and Oxidative Stress [

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Monografía

The book describes the major degenerative processes and pathologies exacerbated by senescence and how they can be alleviated through retardation of cellular aging. Topics discussed include neurodegenerative disease, protein oxidation, cerebrovascular disease, particle-induced inflammation and cardiovascular disease, Alzheimer's disease, ovarian aging, dietary and endogenous anti-oxidants in management of Parkinson's disease, and effects of exercise on oxidation and inflammation. The nineteen expertly authored chapters are organized into three sections in order to present a complete picture to the reader: Age Related Cellular Events, Role of Inflammatory and Oxidative Processes in Age-Related Diseases, and Retardation of Cellular Aging. Inflammation, Oxidative Stress and Age-Related Disease draws from a variety of international perspectives and provides a comprehensive overview of the relationship between disease, cell aging, and oxidative stress, as well as potential for preventing or slowing these processes. This installment of Springer's Oxidative Stress in Applied Basic Research and Clinical Practice is ideal for researchers, clinicians, and advanced graduate students in the fields of cardiology, neuroscience, biogerontology, and cell biology. .

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Contenido: Part I) Relation between adverse oxidant and inflammatory changes -- 1) Relationship between inflammatory and oxidative pathways in the disease process -- 2) Nitric oxide, the common denominator in oxidative and inflammatory events -- 3) Genomic profiling of the link between oxidative and inflammatory events -- 4) Environmental toxicants inflammation and oxidative stress -- Part II) Role of oxidative events in age-related diseases -- 5) Mitochondrial DNA deletions and oxidative stress -- 6) Oxidative stress and Alzheimer\2019s disease -- 7) Oxidative stress and Parkinson\2019s disease -- 8) Oxidative stress, cause or consequence of aging? -- 9) Oxidative events in intracellular signaling -- 10) Oxidative stress and drugs of abuse -- Part III) Role of inflammatory events in age-related diseases -- 11) Limitations of animal models of human inflammatory disease -- 12) Microglial activation in neurodegenerative diseases -- 13) Particle- induced inflammation and cardiovascular disease -- 14) Microglia and inflammation in Parkinson\2019s disease -- Part IV) Modulation of disease by anti-oxidant and anti-inflammatory agents -- 15) Alzheimer\2019s disease and anti-oxidant therapy -- 16) Antioxidant, and behavioral therapy in slowing brain aging -- 17) Treatment of age-related disease using micronutrients -- 18) Anti-inflammatory treatment in neurological disease

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