



## Studies on arthritis and joint disorders /

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Monografía

Joint diseases are a major public health concern. Reactive oxygen species are mediators in pathways associated with joint tissue injury. Oxidative Stress in Applied Basic Research and Clinical Practice: Studies on Arthritis and Joint Disorders provides background to understanding the role of reactive oxygen species in joint diseases, as well as therapeutic strategies for their regulation. International experts discuss recent advances on experimental and clinical data focused on free radical-mediated mechanisms of disease. The book also addresses the protective role of antioxidants against the insult of reactive oxygen species in rheumatic diseases

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**Mención de serie:** Oxidative stress in applied basic research and clinical practice

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**Contenido:** Biology of Oxidative Stress in Joint Disorders -- Soluble Proteomic Biomarkers in the Management of Arthritis Yves Henrotin, Ali Mobasher. -- Regulation of T-Cell Functions by Oxidative Stress Stuart J. Bennett, Helen R. Griffiths. -- Nitric Oxide and the Respiratory Chain in Synovial Cells and Chondrocytes María J. López-Armada, Marta N. Valcárcel-Ares, Romina R. Riveiro-Naveira. -- Adipokines, Molecular Players at the Crossroad Between Inflammation and Oxidative Stress: Role in Arthropathies Morena Scotece, Javier Conde, Rodolfo Gómez, Verónica López, Francisca Lago. -- Regulation of Cartilage and Bone Metabolism by Oxidative Stress Anja Niehoff, Christoph Ziskoven. -- Role of Oxidative Stress in Bone Ageing Sergio Portal-Núñez, Pedro Esbrit. -- Clinical Aspects of Oxidative Stress in Joint Disorders -- Genetic Component of Oxidative Stress in Rheumatoid Arthritis F. David Carmona, Jose-Ezequiel Martin, Javier Martin. -- Oxidative Stress in Rheumatoid Arthritis Katalin É. Szabó-Taylor, György Nagy, Paul Eggleton, Paul G. Winyard. -- Oxidative Stress and Premature

Atherosclerosis in Rheumatoid Arthritis Fredeswinda I. Romero-Bueno. -- Role of Oxidative Stress and Reactive Oxygen Radicals in the Pathogenesis of Systemic Sclerosis Sonsoles Piera-Velazquez, Sergio A. Jimenez. -- Antioxidant and Antiinflammatory Properties of Heme Oxygenase-1 in Osteoarthritic Articular Cells Maria Isabel Guillén, Isabel García-Arnandis, Victoria Clérigues, Javier Megías. -- Oxidative Stress at the Crossroads Between Osteoarthritis and Metabolic Syndrome James D. Katz, Manuel T. Velasquez. -- Metabolic Syndrome and Gout Eswar Krishnan. -- Antioxidative Approach in Joint Disorders -- Natural Antioxidants in the Pharmacological Treatment of Rheumatic Immune and Inflammatory Diseases Rosaria Meli, Giuseppina Mattace Raso. -- Antioxidants in the Treatment of Osteoarthritis and Bone Mineral Loss Ali Mobasher, Mehdi Shakibaei. -- Anti-cytokine Agents to Combat Oxidative Stress Makoto Hirao, Jun Hashimoto, Norihiro Nishimoto. -- Oxidative Conditioning and Treatment for Osteoarthritis Prem S. Ramakrishnan, Marc J. Brouillette, James A. Martin. -- The Role of Sirtuins in Arthritis Diego Kyburz, Fabienne Niederer. -- MicroRNA Molecules, Master Regulators, Biomarkers, and Potential Therapies Olga Sánchez-Pernaute, María Pérez-Ferro. -- Estrogen-Dependent Transcriptional Activity: A Protection Against ROS in Osteoarthritis Laura Lugo, Gabriel Herrero-Beaumont

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