

Special Issue

Immune-Inflammatory and Oxidative Stress Signaling Pathways Involved in Human Disorders

Message from the Guest Editors

Inflammation is a physiological process that occurs in response to the presence of a foreign organism, including human pathogens, dust particles, and viruses. If not adequately controlled, inflammation, in its acute or chronic states, can trigger a series of biological processes that, cooperatively with the impaired immune response and oxidative stress, affect the physiological cellular mechanisms, disadvantaging cellular homeostasis in various body areas. This Special Issue aims to cover the current state of the art of preclinical studies and clinical studies combined with molecular data, including original research articles, full reviews, systematic reviews and meta-analyses evaluating molecular pathways involved in immune-inflammation and oxidative stress that represent a common denominator of various human pathologies. The modulation of these molecular pathways using synthetic or natural compounds and the discovery of new pathogenic biomarkers represent important goals for scientific research in the management of various pathologies such as neurodegenerative diseases, neurotraumas, cardiovascular, oncology and immune-related pathologies (IBD, skin diseases or genetics).

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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