Tentative Outline

Special Issue for Current Medicinal Chemistry

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Alteration of Redox Equilibrium, Inflammation and Progression of Disease

Aims & Scope:

Growing evidence supports a primary role of inflammatory reactions, both acute and chronic, in the development and progression of the main human diseases. The redox-mediated pathophysiological mechanisms are crucial in the evolution of various diseases, in which inflammation is involved. In this theme issue we would like to consider the role of inflammation and redox balance in the genesis and worsening of diseases, such as atherosclerosis, metabolic syndrome, and ischemia/reperfusion injury. Reviews by scientists, with basic and clinical background, will contribute to give a comprehensive picture of the inflammation- and redox-mediated pathogenesis of the diseases and an up-to-date scenario of therapeutic approaches.

Keywords: Redox Equilibrium, inflammatory reactions, myocardial ischemia, oxidative stress, metabolic syndrome.

Sub topics:

• Tissue-specific alterations: redox and inflammatory connections.
• The role of redox deregulation in the inflammatory response to myocardial ischemia/reperfusion injury: adding fuel to the fire.
• Targeting oxidative stress to prevent reperfusion injury in acute myocardial infarction: experimental and clinical evidences.
• Metabolic Syndrome and Liver Disease.
• Lipid oxidation products in the pathogenesis of inflammation-related gut diseases.

Tentative Publication Date: February 2017