Special Issue

Implication of Oxidative Stress in Promoting Cellular Senescence and Associated Pathologies—2nd Edition

Message from the Guest Editor

Cellular senescence, as a stable growth arrest program. has evolved as a mechanism to prevent the propagation of unwanted cells. Yet, senescent cells are not inert: despite the accelerated accumulation of macromolecular damage, they remain alive for prolonged periods and release factors that can harm neighboring healthy cells, as well as the very cells that produce these factors. Accordingly, their accumulation within tissues and organs contributes to tissue dysfunction and gives rise to pathological manifestations, organ ageing, and age-related diseases. In this regard, unraveling the underlying mechanisms of oxidative stress-induced cellular senescence will contribute significantly to the development of new strategies combatting ageing and age-related pathologies. This Special Issue aims to elucidate the interrelationships of oxidative stress and cellular senescence and their contribution to ageing and agerelated pathologies.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

Editor-in-Chief

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