# **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**

Dr. Alexandra Barbouti

Laboratory of Anatomy-Histology-Embryology, Faculty of Medicine, University of Ioannina, Ioannina, Greece

### Deadline for manuscript submissions

30 June 2026



# **Antioxidants**

an Open Access Journal by MDPI

Impact Factor 6.6 CiteScore 12.4 Indexed in PubMed



mdpi.com/si/204695

Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

mdpi.com/journal/ antioxidants





# **Antioxidants**

an Open Access Journal by MDPI

Impact Factor 6.6 CiteScore 12.4 Indexed in PubMed



## **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

Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

## **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

## **Journal Rank:**

JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)

