

Special Issue on  
**Molecular Perspectives on Cellular Aging: Unraveling Key Mechanisms 2024**

# CALL FOR PAPERS

The global increase in life expectancy poses significant socioeconomic challenges, as ageing contributes to deteriorating overall health, escalating public expenditures in medical and social sectors.

The increase in aging populations requires a deep understanding of the fundamental mechanisms underlying ageing for effective government strategies that promote healthy ageing. For decades, gerontologists have grappled with the intricate nature of ageing, a complex biological process that results in a functional decline of organ systems, heightened susceptibility to stress, and the onset of age-related conditions such as cancer, neurodegenerative diseases, and diabetes. Influenced by genetic and environmental factors, this process is distinctly individualized, with its delicate molecular intricacies remaining elusive. Ongoing extensive research is dedicated to unraveling the intimate molecular mechanisms that govern ageing, focusing primarily on comprehending standard features that could pave the way for targeted pharmaceutical interventions.

This Special Issue seeks to amalgamate original research and review articles delving into the molecular intricacies of cellular ageing. It aims to propel pharmaceutical advancements to alleviate, decelerate and manipulate the ageing trajectory by fostering a collective discourse on our current understanding of ageing processes.

Potential topics include but are not limited to the following:

- ▶ Molecular mechanisms of cellular ageing
- ▶ Molecular markers of cellular ageing
- ▶ Mechanisms of biological and chronological ageing
- ▶ Chromatin structure and dynamics as significant players in ageing
- ▶ Gene expression and epigenetic changes in chromatin during ageing
- ▶ New targets in anticancer therapy
- ▶ Premature ageing syndrome and age-associated diseases in the context of chromatin
- ▶ Lifestyle and cellular ageing
- ▶ Nutrition, epigenetics, and ageing
- ▶ Ageing, cancer, and senescence

Authors can submit their manuscripts through the Manuscript Tracking System at <https://review.wiley.com/submit?specialIssue=310145>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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