

Special Issue

Cellular Senescence in Development, Regeneration, Aging, and Cancer

Message from the Guest Editor

Cellular senescence is a phenomenon characterized by the cessation of cell division; it is a complex cell fate with significant implications for both cancer and aging. Furthermore, recent studies have uncovered functional roles for senescence in embryonic development and regeneration. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: molecular mechanisms or markers of cellular senescence, the role of the immune system in senescent cell clearance and interaction, novel therapeutic strategies targeting senescence, implications of cellular senescence in cancer and aging-related diseases, and roles of cell senescence in regeneration, development, and longevity across species. This Special Issue aims to highlight fundamental research and emerging translational strategies to target cellular senescence for extending healthspan and enhancing anti-cancer therapies and improve our understanding of the regenerative and developmental processes influenced by cellular senescence. I look forward to receiving your contributions.

Guest Editor

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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