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Controversies and Recent Advances in Senescence and Aging

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Message from the Guest Editors

Aging is the leading factor for chronic diseases that account for most of the morbidity and mortality worldwide (e.g., neurodegeneration; cardiovascular, pulmonary, renal, and bone diseases; and cancers). Oxidative stress and reactive oxygen species generation, overproduction of inflammatory cytokines, activation of oncogenes, DNA damage, telomere shortening, and the accumulation of senescent cells are all widely accepted mechanisms contributing to aging. Senescence is mainly thought to be provoked by negative cellular stress, but might also be induced by physiological developmental stimuli. Currently, no single marker is available to identify a cell as specifically senescent *in vivo*. Senescent cells contribute to embryonic tissue development and participate in tissue repair and tumor suppression, but they are also involved in detrimental tissue decline during aging. Given the pleiotropic actions of senescent cells, a deeper understanding is needed to develop further approaches and recommendations for healthy aging. All contributions shedding additional light and providing significant or provocative findings in these fascinating topics are welcome in this Special issue of *Cells*.



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Special Issue



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Message from the Editorial Board

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