



## Telomeres in Development, Senescence and Genome Instability

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### Message from the Guest Editor

Dear Colleagues,

Telomere biology, as a special area of biology, was brought to light in 1971–1973 by the brilliant prediction of Alexey Olovnikov (1936–2022) about the under-replication of the ends of linear chromosomes. In his telomeric theory of aging, Alexey Olovnikov also determined the key role of telomeres in various fundamental processes, such as cell death, cancer, and aging. Indeed, telomere functions are closely linked to many cellular processes, in particular through the telomere signalling mechanisms, although their molecular basis remains poorly understood. Telomere shortening and telomere dysfunction are the hallmarks of cellular senescence, aging and oncogenesis, highlighting the importance of telomere state in genome stability. The aim of this Special Issue is to bring together research and methodological articles, reviews and opinions of the authors studying the diverse and fascinating field of telomere biology.

Topics include, but are not limited to, the following: Telomere disorders and cell death; Telomeres and genome stability; Epigenetics of telomeres in development and aging; Telomeres in aging and senescence.





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## Message from the Editor-in-Chief

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