



Telomerase: Role in Health and Aging

Guest Editor:

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Message from the Guest Editor

The history of the prediction, discovery, and study of telomerase has been unfolding before us for over 100 years. Today, we are far less concerned with extending life; instead, increasing the length of a healthy life.

The aim of this Special Issue is to summarize the knowledge of telomerase functions and its role in the pathophysiology of aging-associated diseases and cancer. Topics of the Special Issue include but are not limited to the following:

1. Telomerase and mitochondria, redox regulation
2. Non-canonical functions of telomerase
3. Telomerase, telomeres, SASP
4. Inflamm-aging, senolytics
5. Special role of telomerase in neurons
6. Telomerase and cancer. Features of hTERT repression. Fusion-bridge-breakage mechanism, circular chromosomes, chromothripsis
7. Telomerase, lifespan, body size
8. Telomere position effect
9. Telomeropathies: diskera-tosis congenita, interstitial pulmonary fibrosis, etc.
10. Telomere measurement methods. Comparisons
11. G4 structures: role in telomeres and whole genome
12. Splicing hTERT as a regulator





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Message from the Editor-in-Chief

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