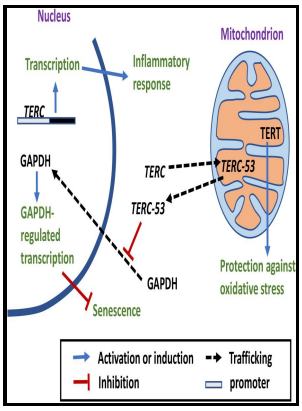
Telomeres and telomerase in aging, disease, and cancer - molecular mechanisms of adult stem cell ageing

Springer - Telomeres and disease



Description: -
-
Criminal behavior.
Crime -- Social aspects.
Telomerase -- physiology
Neoplasms -- genetics
Cell Aging -- genetics
Aging -- genetics
Adult Stem Cells
Telomere -- physiology
Cancer -- Molecular aspects
Telomerase
Telomere
Aging -- Molecular aspectsTelomeres and telomerase in aging, disease, and cancer - molecular mechanisms of adult stem cell ageing
-Telomeres and telomerase in aging, disease, and cancer - molecular mechanisms of adult stem cell ageing
Notes: Includes bibliographical references and index.
This edition was published in 2008

Filesize: 60.55 MB

Tags: #Telomeres #in #Disease

Telomerase and the Aging Cell: Implications for Human Health

This notion is supported by the recent discoveries of mutations in genes of DC patients such as TINF2, NHP2 and NOP10 ; ;. In another study evaluating a different population, telomere length failed to predict survival, but interestingly it correlated with years of healthy life. Chromosome 17p was chosen for illustration because it has a short track of telomere repeats in a majority of normal individuals ; and because abnormalities involving the p53 gene located on 17p13.

Telomerase, telomerase function, telomerase in cancer & aging

The mechanism through which stem cells enter senescence is not currently known. Aberrant lengthening or reduction in the length of telomeres can lead to health anomalies, such as cancer or premature aging. When the maturation of the body is complete, clusters of neurons remain in the brain, which are essentially the endpoint of the time relay, while the temporary neurons of these clusters contain only terminal chronomeres, which gradually decrease.

The common biology of cancer and ageing

Alternatively, they may be a biomarker of exposure to reactive oxygen species produced as a result of a chronic inflammatory process, which can both damage telomeres and cause cancer.

The common biology of cancer and ageing

Inhibition of human telomerase in immortal human cells leads to progressive telomere shortening and cell death. The shortening of telomeres in cells of the immune system occurs through biochemical reactions , while stress can also affect the occurrence of age-related diseases.

Telomeres and Telomerase in Aging, Disease, and Cancer: Molecular Mechanisms ...

In a September 2019 article, a group of scientists reported successfully reversing the aging in humans.

The common biology of cancer and ageing

The Zsummary statistic takes into account the overlap in module membership, the density mean connectivity and connectivity sum of connections patterns of modules.

JCI

Philos Trans R Soc B Biol Sci.

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