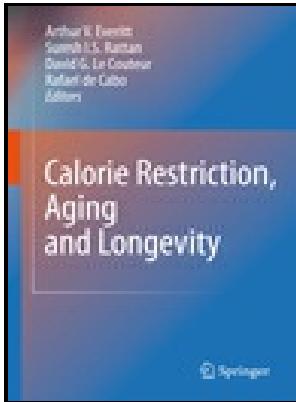


Telomeres and telomerase in aging, disease, and cancer - molecular mechanisms of adult stem cell ageing

Springer - Telomeres in 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 aspects
 Telomeres 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: 16.29 MB

Tags: #The #role #of #telomeres #and #telomerase #in #stem #cell #aging

Telomerase Reverse Transcriptase Delays Aging in Cancer

The foundational understanding of the role of telomeres and telomerase in disease has been rooted in curiosity-driven science, in simple systems and model organisms. These stem cells include HSCs and mesenchymal stem cells MSCs from human bone marrow, that are extensively studied.

Pan

In addition, we show that these telomerase gene signatures are predictive of survival. Since adult stem cell research has reached the level of clinical trials all over the world it is important to know the advances and applications of adult stem cells in ageing and diseases and cancer as well. Department of Energy's Office of Basic Energy Sciences.

Telomeres and Telomerase in Aging, Disease, and Cancer: Molecular Mechanisms of Adult Stem Cell Ageing

Why specific tissues seem to be affected more than others in individual patients is incompletely understood. Genomic instability and aging-like phenotype in the absence of mammalian SIRT6. To test this hypothesis, we randomly selected genes from strong- and median hub groups TPX2 and EXO1 in strong group, FOXM1 and RAD54L in median group and non-hub cell cycle gene NEIL3 as negative control for experimental validation.

Telomerase Reverse Transcriptase Delays Aging in Cancer

TERT drove this dramatic change by activating quiescent hair follicle stem cells in their niche, the bulge region.

Telomeres: history, health, and hallmarks of aging

A beginning of the end: new insights into the functional organization of telomeres.

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