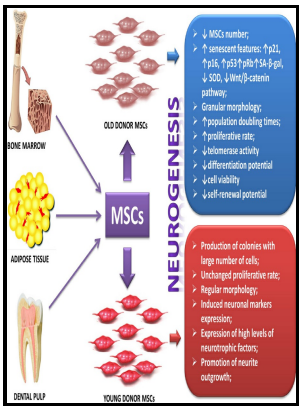
Telomeres and telomerase in aging, disease, and cancer - molecular mechanisms of adult stem cell ageing

Springer - Telomere length, stem cells and aging



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: 12.86 MB

Tags: #Telomerase, #telomerase #function, #telomerase #in #cancer #& #aging

Telomeres and Telomerase in Aging, Disease, and Cancer

An improved understanding of telomerase function may suggest specific strategies for stabilizing telomeres in aging tissues to prevent cancer and other diseases, and alternatively, more sophisticated approaches for inhibiting telomerase in mature human cancers.

Adult stem cells in aging, diseases and cancer

Through the propensity scoring method, we can balance the covariable and use standardized difference to examine the balance 10% after the propensity scoring model was applied. Since most humans are germline TP53-intact, and in light of the emerging observations that humans with short telomere syndrome have a relatively low risk of cancer, we believe the current models that are informed primarily on the basis of in vitro data may be overestimating the impact of short telomeres as a driver of genome instability and cancer in humans. In contrast, established cancer lines divided indefinitely with passage in culture.

Biological immortality

It was also shown that the self-renewing potential and longevity of HSCs in vivo are largely determined by the ROS levels. In order to explain the effect of chronic stress on telomere shortening, Damjanovic et al 2007 studied immunological changes in caregivers for relatives with Alzheimer's disease.

Telomeres and Telomerase in Aging, Disease, and Cancer on Apple Books

Results The TERT high-specific mRNA expression signature is associated with cell cycle-related coexpression modules across cancer types.

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

Shelterin: the protein complex that shapes and safeguards human telomeres. Telomeres consist of repeating nucleotide sequences and a set of special proteins that interact with DNA to form a nucleoprotein complex. The authors hypothesized that the chromosomal instability observed in

Systemic sclerosis patients may result from the loss of long stretches of the telomeric repeats.

Related Books