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Aging is a major risk factor for **tendon** injury and impaired **tendon** healing, but the basis for these relationships remains poorly understood. Here we show that rat **tendon**-derived **stem/progenitor cells** (TSPCs) differ in both self-renewal and differentiation capability with **age**.

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Tendon stem/progenitor cell ageing: Modulation and rejuvenation

Guang-Chun Dai, Ying-Juan Li, Min-Hao Chen, Pan-Pan Lu, Yun-Feng Rui

Abstract

Tendon ageing is a complicated process caused by multifaceted pathways and ageing plays a critical role in the occurrence and severity of tendon injury. The role of tendon stem/progenitor cells (TSPCs) in tendon maintenance and regeneration has received increasing attention in recent years. The decreased capacity of TSPCs in seniors contributes to impaired tendon functions and raises questions as to what extent these cells either affect, or cause ageing, and whether these age-related cellular alterations are caused by intrinsic factors or the cellular environment. In this review, recent discoveries concerning the biological characteristics of TSPCs and age-related changes in TSPCs, including the effects of cellular epigenetic alterations and the mechanisms involved in the ageing process, are analyzed. During the ageing process, TSPCs ageing might occur as a natural part of the tendon ageing, but could also result from decreased levels of growth factor, hormone deficits and changes in other related factors. Here, we discuss methods that might induce the rejuvenation of TSPC functions that are impaired during ageing, including moderate exercise, cell extracellular matrix condition, growth factors and hormones; these methods aim to rejuvenate the features of youthfulness with the ultimate goal of improving human health during ageing.

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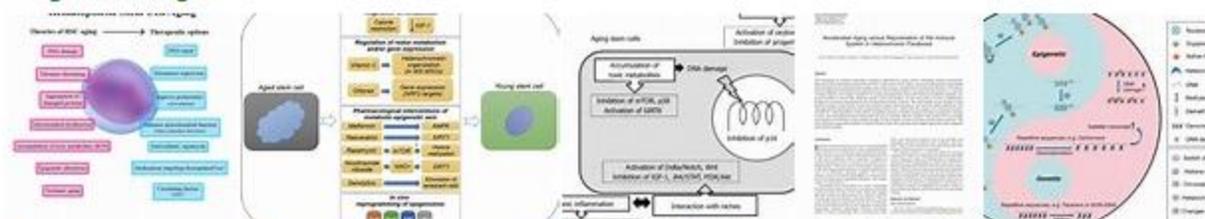
Age related changes in cell stiffness of tendon stem ...

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Stiffness and size of **tendon stem/progenitor cells** (TSPC) increase with **age**. • Increased cell stiffness correlates with denser and oriented actin fibers. • ROCK inhibition reverses **aging-effects** having a rejuvenating effect on aged TSPC. • ROCK may serve as target and cell stiffness as biomarker in cell based therapies.

Author: Stefanie Kiderlen, Stefanie Kiderlen, C... Publish Year: 2019

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Ischemic heart disease affects a majority of people, especially elderly patients. Recent studies have utilized autologous adult **stem/progenitor cells** as a treatment option to heal cardiac tissue after