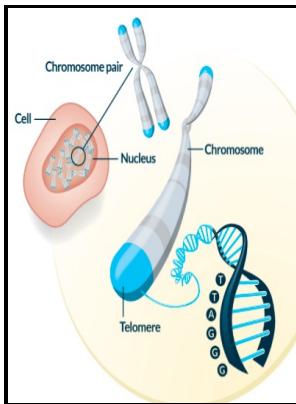


Origin and evolution of telomeres

Landes Bioscience - Origin and Evolution of Telomeres by Jozef Nosek



Description: -

- Telomere -- genetics

Telomerase -- physiology

Telomerase -- genetics

Evolution, Molecular

Telomere -- physiology

TelomereOrigin and evolution of telomeres

-Origin and evolution of telomeres

Notes: Includes bibliographical references and index.

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We also discuss basic methods used for telomere identification and we explain the implications of the recent discovery of plant telomerase RNA on further research about the role of telomerase in eukaryogenesis or on the molecular causes and consequences of telomere variability. Even a small change in the telomere motif of each repeat unit represents an important interference in the system of sequence-specific telomere binding proteins. As a result, in many species belonging to the families Debaryomycetaceae, Metschnikowiacae and Phaffomycetaceae e.

Origin, Diversity, and Evolution of Telomere Sequences in Plants

These pathways comprise a molecular clock involved in cell senescence, carcinogenesis and immortalization. Ancestry and possible homoplasy in telomeric motifs, as well as extant gaps in knowledge are discussed.

The role of telomeres in the mechanisms and evolution of life

It is estimated that normal human cells must repair at least 50 endogenous double-stranded breaks DSBs per cell per cell-cycle.

Origin and Evolution of Telomeres by Jozef Nosek

From Screenings to Discovery: How Telomeric Motifs Can Be Identified? A hypothesis about repeated losses and recoveries of the TTTAGGG and TTAGGG telomere sequence in Asparagales was formulated. It was proposed that this type of heterogeneity might have been introduced by two distinct TER alleles with different template domains. Introduction Telomeres are nucleoprotein structures at the very ends of linear eukaryotic chromosomes.

Frontiers

Telomere diversity in eukaryotic nuclear chromosomes.

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