TELOMERES AND TELOMERASE IN CANCER%0A

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Telomeres protect chromosome ends. Telomeres are TTAGGG double-stranded DNA repeats culminating in a single-stranded overhang. The shelterin protein complex protects telomeres, facilitates replication and controls access of telomerase.

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Role of telomeres and telomerase in cancer

Telomeres and telomerase in normal and cancer stem cells Over twenty years ago, we speculated that most normal human cells lack telomerase activity and if cells lost critical cell-cycle checkpoint functions, the initial growth arrest (replicative senescence) could be bypassed permitting cells to continue to divide [6].

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Telomeres and Telomerase Possible Roles in Aging and

Telomeres are protective regions at the ends of chromosomes. The chromosomes are thread-like structures located in the nucleus of our cells. They contain our DNA and its genes and are vitally important in our lives. Telomeres become shorter before every cell division. When they are very short, a cell dies. Telomerase is an enzyme that prevents the telomeres from shortening.

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Telomeres and telomerase in cancer Carcinogenesis

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Telomeres The Role of Shortening in Cancer and Aging How

This includes shortening of your telomeres. Telomerase does this by adding additional telomere sequences to the ends of your chromosomes. Most of the cell types in your body don t have

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Telomeres and Telomerase in Cancer Keiko Hiyama Springer

Telomeres and telomerase are the pivotal players that destine cellular senescence and immortalization. Telomere shortening due to "End-replication problem" in each cell cycle is a universal phenomenon for all eukaryotic cells with linear chromosomes.

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Telomeres and telomerase article Khan Academy

Interestingly, many cancer cells have shortened telomeres, and telomerase is active in these cells. If telomerase could be inhibited by drugs as part of cancer therapy, their excess division (and thus, the growth of the cancerous tumor) could potentially be stopped.

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Telomere and telomerase in stem cells British Journal of

Telomeres, guanine-rich tandem DNA repeats of the chromosomal end, provide chromosomal stability, and cellular replication causes their loss. In somatic cells, the activity of telomerase, a

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Telomeres Telomerase and Cancer Reprint Scientific

Telomeres, Telomerase and Cancer [Reprint] An unusual enzyme called telomerase acts on parts of chromosomes known as telomeres. The enzyme has recently been found in many human tumors and is being

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Are Telomeres the Key to Aging and Cancer Learn Genetics

An enzyme named telomerase adds bases to the ends of telomeres. In young cells, telomerase keeps telomeres from wearing down too much. But as cells divide repeatedly, there is not enough telomerase, so the telomeres grow shorter and the cells age.

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Telomeres and telomerase the path from maize Tetrahymena

Thus, short telomeres can limit the ability of cells to divide, indicating that telomerase inhibition might limit the growth of cancer cells 42. This idea of a role for telomeres in cancer was

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Telomerase Definition Function Structure and Cancer

Telomerase renews the protective telomeres on the ends of our DNA strands. It is not yet known whether telomerase is capable of halting the aging process, and its relationship with cancer is not yet understood.

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Telomeres and Telomerase in Lung Cancer Journal of

Protected telomeres ensure normal chromosomal segregation during mitosis but at the same time can endow genetically abnormal cancer cells with immortality. Telomerase has a pivotal role in telomere protection, both in normal and cancer cells. Understanding the functional interplay between telomere shortening and telomerase expression in cancer

http://robguiverracing.com/Telomeres-and-Telomerase-in-Lung-Cancer-Journal-of--.pdf

Telomerase and breast cancer Breast Cancer Research

Current therapies for breast cancer include treatments that are toxic and often result in drug resistance. Telomerase, a cellular reverse transcriptase that maintains the ends of chromosomes (telomeres), is activated in the vast majority of breast cancers (over 90% of breast carcinomas) but not in normal adjacent tissues.

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Telomeres Telomerase and Cancer Oncohema Key

These studies support an additional protective function of telomerase at the telomeres 21 and raise concerns that generalized antitelomerase therapy could lead to the immediate uncapping of telomeres in normal cells, thus limiting the use of antitelomerase therapy in cancer patients.

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