

Telomerase

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Telomerase is an enzyme that adds specific DNA sequence repeats to the 3' end of DNA strands in the telomere regions, which are found at the ends of eukaryotic chromosomes. The telomeres contain condensed DNA material, giving stability to the chromosomes. The enzyme is a reverse transcriptase that carries its own RNA molecule, which is used as a template when it elongates telomeres, which are shortened after each replication cycle. Telomerase was discovered by Carol W. Greider and Elizabeth Blackburn in 1984 in the ciliate *Tetrahymena*. ([From the Wikipedia article Telomerase](#).)



Recent Publications on Telomerase:

- [Glucagon Like Peptide-1-Directed Human Embryonic Stem Cells Differentiation Into Insulin-Producing Cells Via Hedgehog, cAMP, and PI3K Pathways.](#)
*OBJECTIVES:: That glucagonlike peptide-1 (GLP-1) induces differentiation...*20th November, 2009
From the *UCLA Center of Excellence in Pancreatic Disease, David Geffen- Pancreas. 2009 Nov 16. ([DOI Direct Link](#))
- [Effects of milk replacer formulation on measures of mammary growth and composition in Holstein heifers.](#)
*Overfeeding prepubertal heifers may impair mammary parenchymal growth and...*20th November, 2009
Department of Dairy Science, Virginia Polytechnic Institute and State- J Dairy Sci. 2009 Dec;92(12):5937-5950. ([DOI Direct Link](#))
- [Telomere Shortening in Neural Stem Cells Disrupts Neuronal Differentiation and Neurogenesis.](#)
*Proliferation in the subependymal zone (SEZ) and neurogenesis in the...*20th November, 2009
Departamento de Biologia Celular and Centro de Investigacion Biomedica en- J Neurosci. 2009 Nov 18;29(46):14394-14407. ([DOI Direct Link](#))
- [\[Construction of an expression vector carrying short hairpin RNA targeting hTERT gene and its effects on breast cancer cell telomerase activity and proliferation in vivo.\]](#)
*OBJECTIVE: To construct a RNA interference expression vector targeting...*20th November, 2009
Department of Plastic and Reconstructive Surgery, First Affiliated- Nan Fang Yi Ke Da Xue Xue Bao. 2009 Nov 20;29(11):2187-2190.
- [In this issue.](#)
*SHIGELLOSIS, DYSENTERY - BY WHATEVER NAME - DON'T KISS THE CHIMPS: pp....*19th November, 2009
- Proteomics. 2009 Nov 17;9(22). ([DOI Direct Link](#))
- [Mechanisms of Myocardial Regeneration.](#)
*The plasticity of bone marrow-derived progenitor cells (BMPCs) and their...*19th November, 2009
Departments of Anesthesia and Medicine, and Cardiovascular Division,- Circ J. 2009 Nov 17.
- [A single-molecule assay for telomerase structure-function analysis.](#)

- The activity of the telomerase ribonucleoprotein enzyme is essential for...* 19th November, 2009
Department of Molecular and Cellular Biology, Department of Chemistry and- Nucleic Acids Res. 2009
Nov 17. ([DOI Direct Link](#))
- [Induction of p53 renders ATM deficient mice refractory to hepatocarcinogenesis.](#)
BACKGROUND:: p53 mutations are very common in human hepatocellular... 19th November, 2009
Australian National University Medical School at The Canberra Hospital,- Gastroenterology. 2009 Nov
14. ([DOI Direct Link](#))
 - [Quantification of acetaldehyde and carbon dioxide in the headspace of malignant and non-malignant lung cells in vitro by SIFT-MS.](#)
Previous studies using selected ion flow tube mass spectrometry, SIFT-MS,... 18th November, 2009
Institute for Science and Technology in Medicine, School of Medicine,- Analyst. 2009
Dec;134(12):2419-25. Epub 2009 Oct 22. ([DOI Direct Link](#))
 - [Potential risk factors associated with the use of cidofovir to treat benign human papillomavirus-related disease.](#)
BACKGROUND: Cidofovir is currently being used off-licence to treat... 18th November, 2009
Department of Otolaryngology, Alder Hey Children's NHS Foundation Trust,- Antivir Ther.
2009;14(7):939-952. ([DOI Direct Link](#))
 - [Telomerase-specific T Motif is a Restrictive Determinant of Repetitive Reverse Transcription by Human Telomerase.](#)
The central hallmark of telomerases is repetitive copying of a short,... 18th November, 2009
Department of Microbiology and Immunology, Albert Einstein College of- Mol Cell Biol. 2009 Nov 16. ([DOI Direct Link](#))
 - [Dyskerin ablation in mouse liver inhibits ribosomal RNA processing and cell division.](#)
Dyskerin is a component of small nucleolar ribonucleoprotein complexes and... 18th November, 2009
Division of Hematology, Department of Medicine, Department of Pediatrics,- Mol Cell Biol. 2009 Nov
16. ([DOI Direct Link](#))
 - [The box H/ACA ribonucleoprotein complex: interplay of RNA and protein structures in post-transcriptional RNA modification.](#)
The box H/ACA ribonucleoproteins (RNPs) are protein-RNA complexes... 18th November, 2009
Howard Hughes Medical Institute and Fred Hutchinson Cancer Research- J Biol Chem. 2009 Nov 16. ([DOI Direct Link](#))
 - [Telomerase deficiency and cancer susceptibility syndromes.](#)
Telomeres from most eukaryotes are composed of repeats of guanine-rich... 18th November, 2009
Instituto de Investigaciones Biomedicas CSIC/UAM, Translational Oncology- Clin Transl Oncol. 2009
Nov;11(11):711-4.
 - [Zoledronic acid decreases mRNA STEAP expression in prostate cancer cells.](#)
Background. Zoledronic acid (Zol) is used successfully to inhibit bone... 17th November, 2009
Department of Biomedical and Surgical Sciences, Clinic of Internal- J Endocrinol Invest. 2009 Nov 12. ([DOI Direct Link](#))

BioNews Results for Telomerase

- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Individual.com: Nov 20 2009 8:41AM Matching: telomerase
- [Geron Corporation \(GERN\) Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
BioSpace: Nov 19 2009 7:18PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
SmartBrief: Nov 19 2009 6:31PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)

- Genetic Engineering News: Nov 19 2009 1:59PM Matching: telomerase*
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
San Jose Mercury News: Nov 19 2009 1:51PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor ...](#)
Zibb: Nov 19 2009 1:34PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Centre Daily Times: Nov 19 2009 1:24PM Matching: telomerase
- [BRIEF-Geron gives interim clinical data on its Telomerase inhibitor](#)
Forbes.com: Nov 19 2009 1:21PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Pharma Live: Nov 19 2009 1:14PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Forbes.com: Nov 19 2009 1:00PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Earthtimes.org: Nov 19 2009 12:58PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Street Insider: Nov 19 2009 12:56PM Matching: telomerase
- [BRIEF-Geron gives interim clinical data on its Telomerase inhibitor](#)
Interactive Investor International: Nov 19 2009 12:56PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Earthtimes.org: Nov 19 2009 12:56PM Matching: telomerase
- [Geron Presents Interim Clinical Data on Its Telomerase Inhibitor Drug at AACR-NCI-EORTC](#)
Business Wire UK: Nov 19 2009 12:55PM Matching: telomerase

Telomerase Patents:



- 7582635- [Therapeutic agents useful for treating pain](#)
- 7592367- [Compounds from Garcinia hanburyi, their use in treating cancer and method of separating epimers thereof](#)
- 7592422- [Modified plasminogen activator inhibitor type-1 and methods based thereon](#)
- 7595378- [Human monoclonal antibodies to epidermal growth factor receptor \(EGFR\)](#)
- 7597890- [Methods and compositions for diagnosing lung cancer](#)
- 7597894- [Compositions and methods employing alternative reading frame polypeptides for the treatment of cancer and infectious disease](#)
- 7598077- [Compositions and methods for enhancing differential expression](#)
- 7598221- [Synthetic HLA binding WT-1 peptide analogues and uses thereof](#)
- 7598345- [Immunostimulatory compositions and methods](#)
- 7601355- [Compositions and methods for altering immune function](#)
- 7601518- [Secretion of neublastin](#)
- 7592353- [Substituted 3-amino-thieno\[2,3-b\]pyridine-2-carboxylic acid amide compounds and processes for preparing and their uses](#)
- 7590493- [Methods for determining hepatotoxins](#)
- 7589190- [Potent LNA oligonucleotides for the inhibition of HIF-1A expression](#)
- 7585514- [Administration of agents mimicking DOPAchrome tautomerase \(TRP-2\) activity for protecting](#)

[hair follicle melanocytes](#)

- 7585622- [Increasing the proliferative capacity of cells using telomerase reverse transcriptase](#)
- 7585966- [Inhibitory polynucleotides directed against the RNA component of telomerase](#)
- 7588902- [Methods and compositions for diagnosing hepatocellular carcinoma](#)
- 7588930- [Compositions and methods for enhancing the immunogenicity of antigens](#)
- 7589066- [Potent and specific immunoproteasome inhibitors](#)
- 7589071- [Large capacity viral amplicon using a minimal orilyt from human cytomegalovirus](#)
- 7589119- [Methods for treating or preventing metastatic cancer using benzopyranone compounds](#)
- 7589125- [2,4-dihydroxybenzoic acid derivatives](#)
- 7589172- [PRO256 polypeptides](#)
- 7601532- [Microarray for predicting the prognosis of neuroblastoma and method for predicting the prognosis of neuroblastoma](#)
- 7601534- [Method for multiplying stem cells](#)
- 7615361- [Toxicity screening methods](#)
- 7615530- [Immunogenic compositions and methods of use](#)
- 7615554- [Erastin and erastin binding proteins, and uses thereof](#)
- 7615627- [RNA interference mediated inhibition of aurorakinase B and its combinations as anticancer therapy](#)
- 7618364- [Cardiac wall tension relief device and method](#)
- 7618622- [Treatment of Parkinson's disease and related disorders using postpartum derived cells](#)
- 7618774- [Materials and methods for identifying genes and/or agents that alter replicative lifespan](#)
- 7618939- [Compositions and methods to prevent cancer with cupredoxins](#)
- 7618956- [Reduction of hair growth](#)
- 7618982- [Heteroarylpyrrolopyridinones active as kinase inhibitors](#)
- 7612201- [Pyrazole compounds](#)
- 7611853- [Assay to screen for anti-malarials](#)
- 7608682- [Substrates of N-end rule ubiquitylation and methods for measuring the ubiquitylation of these substrates](#)
- 7601699- [Production of reprogrammed cells with restored potential](#)
- 7604799- [EphA4 Antibodies](#)
- 7604800- [Anti-PSGL-1 antibodies](#)
- 7605138- [Nucleic acid compositions for stimulating immune responses](#)
- 7605238- [Human CTLA-4 antibodies and their uses](#)
- 7605288- [Heat shock protein 90 inhibitors](#)
- 7608267- [Multifunctional cytokines](#)
- 7608594- [Novobiocin analogues as anticancer agents](#)
- 7608613- [Analogues of benzoquinone-containing ansamycins and methods of use thereof](#)
- 7608635- [Pyrazole compounds that modulate HSP90 activity](#)
- 7619138- [Precise breeding](#)

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