

"Telomere & Immune System" Articles

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Telomere & HIV Infection

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Telomere Length, Traditional Risk Factors, Factors Related to Human Immunodeficiency Virus (HIV) and Coronary Artery Disease Events in Swiss Persons Living With HIV	Engel T	Clin Infect Dis. 2021 Oct 5;73(7):e2070-e2076.	2021	2020/7/30	32725240	*
2	Shorter Granulocyte Telomeres Among Children and Adolescents With Perinatally Acquired Human Immunodeficiency Virus Infection and Chronic Lung Disease in Zimbabwe	Ajaykumar A	Clin Infect Dis. 2021 Oct 5;73(7):e2043-e2051.	2021	2020/8/9	32766884	*
3	Telomere length is associated with HIV infection, methamphetamine use, inflammation, and comorbid disease risk	Mehta SR	Drug Alcohol Depend. 2021 Apr 1;221:108639.	2021	2021/2/23	33621803	*
4	A Matter of Life or Death: Productively Infected and Bystander CD4 T Cells in Early HIV Infection	Cao D	Front Immunol. 2021 Feb 12;11:626431.	2021	2021/3/1	33643305	*
5	HIV-1 Latency and Viral Reservoirs: Existing Reversal Approaches and Potential Technologies, Targets, and Pathways Involved in HIV Latency Studies	Khanal S	Cells. 2021 Feb 23;10(2):475.	2021	2021/3/6	33672138	
6	Impact of Delaying Antiretroviral Treatment during Primary HIV Infection on Telomere Length	Raffenberg M	J Infect Dis. 2021 Apr 5;jiab186.	2021	2021/4/6	33822976	*
7	Longitudinal telomere length profile does not reflect HIV and childhood trauma impacts on cognitive function in South African women	Womersley JS	J Neurovirol. 2021 Oct;27(5):735-749.	2021	2021/8/27	34448146	*
8	Longitudinal Follow-Up of Blood Telomere Length in HIV-Exposed Uninfected Children Having Received One Year of Lopinavir/Ritonavir or Lamivudine/Zidovudine	Monnin A	Children (Basel). 2021 Sep 10;8(9):796.	2021	2021/9/28	34572228	*
9	Telomere Length Declines in Persons Living With HIV Before Antiretroviral Therapy Start But Not After Viral Suppression: A Longitudinal Study Over 17 Years	Schoepf IC	J Infect Dis. 2021 Dec 15;jiab603.	2021	2021/12/15	34910812	
10	The Immune Response Against Human Cytomegalovirus Links Cellular to Systemic Senescence	J Heath J	Cells. 2020 Mar 20;9(3):766.	2020	2020/4/5	32245117	
11	Biological Aging and Immune Senescence in Children with Perinatally Acquired HIV	Dalzini A	J Immunol Res. 2020 May 16;2020:8041616.	2020	2020/6/9	32509884	
12	Inverse relationship between leukocyte telomere length attrition and blood mitochondrial DNA content loss over time	Hsieh AYY	Aging (Albany NY). 2020 Jul 23;12(15):15196-15221.	2020	2020/7/25	32703912	*

13	Telomere Length Increase in HIV/HCV-Coinfected Patients with Cirrhosis after HCV Eradication with Direct-Acting Antivirals	Molina-Carrión S	J Clin Med. 2020 Jul 28;9(8):2407.	2020	2020/8/1	32731419	*
14	Per2 Upregulation in Circulating Hematopoietic Progenitor Cells During Chronic HIV Infection	Bordoni V	Front Cell Infect Microbiol. 2020 Jul 21;10:362.	2020	2020/8/28	32850472	
15	Telomere and ATM Dynamics in CD4 T-Cell Depletion in Active and Virus-Suppressed HIV Infections	Khanal S	J Virol. 2020 Oct 27;94(22):e01061-20.	2020	2020/9/10	32907975	
16	Targeted Mitochondrial COQ(10) Delivery Attenuates Antiretroviral-Drug-Induced Senescence of Neural Progenitor Cells	Velichkovska M	Mol Pharm. 2019 Feb 4;16(2):724-736.	2019	2018/12/29	30592424	
17	Disruption of Telomere Integrity and DNA Repair Machinery by KML001 Induces T Cell Senescence, Apoptosis, and Cellular Dysfunction	Cao D	Front Immunol. 2019 May 22;10:1152.	2019	2019/6/14	31191531	*
18	Correlates of telomere length shortening in peripheral leukocytes of HIV-infected individuals and association with leukoaraiosis	Minami R	PLoS One. 2019 Jun 27;14(6):e0218996.	2019	2019/6/28	31246986	*
19	Determinants of blood telomere length in antiretroviral treatment-naïve HIV-positive participants enrolled in the NEAT 001/ANRS 143 clinical trial	Alejos B	HIV Med. 2019 Nov;20(10):691-698.	2019	2019/9/19	31532902	*
20	Lymphocyte homeostasis is maintained in perinatally HIV-infected patients after three decades of life	Paghera S	Immun Ageing. 2019 Oct 13;16:26.	2019	2019/10/23	31636688	*
21	ATM Deficiency Accelerates DNA Damage, Telomere Erosion, and Premature T Cell Aging in HIV-Infected Individuals on Antiretroviral Therapy	Zhao J	Front Immunol. 2019 Nov 5;10:2531.	2019	2019/11/30	31781094	
22	Leukocyte Telomere Length at Birth and During the Early Life of Children Exposed to but Uninfected With HIV After In Utero Exposure to Antiretrovirals	Ajaykumar A	J Infect Dis. 2018 Feb 14;217(5):710-720.	2018	2017/12/12	29228317	
23	Cocaine use may induce telomere shortening in individuals with HIV infection	Lai S	Prog Neuropsychopharmacol Biol Psychiatry. 2018 Jun 8;84(Pt A):11-17.	2018	2018/2/8	29410247	
24	Is the telomere length associated with neurocognitive disabilities in HIV-1-infected subjects?	Araújo ML	Rev Inst Med Trop Sao Paulo. 2018;60:e16.	2018	2018/4/26	29694602	*
25	Premature Spinal Bone Loss in Women Living with HIV is Associated with Shorter Leukocyte Telomere Length	Kalyan S	Int J Environ Res Public Health. 2018 May 18;15(5):1018.	2018	2018/5/23	29783641	
26	Decreased telomere length in the small airway epithelium suggests accelerated aging in the lungs of persons living with human immunodeficiency virus (HIV)	Xu S	Respir Res. 2018 Jun 13;19(1):117.	2018	2018/6/14	29895291	*
27	Leukocyte Telomere Length in HIV Infection: A Marker of Persistent Immune Aging or Transient Immune Reconstitution?	Côté HCF	J Infect Dis. 2018 Oct 5;218(10):1521-1522.	2018	2018/6/19	29912474	*
28	Blood Telomere Length Changes After Ritonavir-Boosted Darunavir Combined With Raltegravir or Tenofovir-Emtricitabine in Antiretroviral-Naïve Adults Infected With HIV-1	Stella-Ascariz N	J Infect Dis. 2018 Oct 5;218(10):1523-1530.	2018	2018/7/9	29982509	
29	Stronger Association between Insomnia Symptoms and Shorter Telomere Length in Old HIV-Infected Patients Compared with Uninfected Individuals	Ding Y	Aging Dis. 2018 Dec 4;9(6):1010-1019.	2018	2018/12/22	30574414	
30	Assessing immune aging in HIV-infected patients	Appay V	Virulence. 2017 Jul 4;8(5):529-538.	2017	2016/6/17	27310730	

31	Longitudinal study of surrogate aging measures during human immunodeficiency virus seroconversion	Leung JM	Aging (Albany NY). 2017 Feb 23;9(3):687-705.	2017	2017/2/27	28237978	*
32	Impact of Antiretroviral Treatment Containing Tenofovir Difumarate on the Telomere Length of Aviremic HIV-Infected Patients	Montejano R	J Acquir Immune Defic Syndr. 2017 Sep 1;76(1):102-109.	2017	2017/4/19	28418989	*
33	Basic science and pathogenesis of ageing with HIV: potential mechanisms and biomarkers	Lagathu C	AIDS. 2017 Jun 1;31 Suppl 2:S105-S119.	2017	2017/5/5	28471941	
34	Human Immunodeficiency Virus and Aging in the Era of Effective Antiretroviral Therapy	Van Epps P	Infect Dis Clin North Am. 2017 Dec;31(4):791-810.	2017	2017/9/17	28916384	
35	Premature aging and immune senescence in HIV-infected children	Gianesin K	AIDS. 2016 Jun 1;30(9):1363-73.	2016	2016/3/19	26990630	
36	Abnormal Bone Acquisition With Early-Life HIV Infection: Role of Immune Activation and Senescent Osteogenic Precursors	Manavalan JS	J Bone Miner Res. 2016 Nov;31(11):1988-1996.	2016	2016/6/11	27283956	
37	HIV Infection Is Associated with Shortened Telomere Length in Ugandans with Suspected Tuberculosis	Auld E	PLoS One. 2016 Sep 21;11(9):e0163153.	2016	2016/9/23	27655116	*
38	Comparison of telomere length in black and white teachers from South Africa: the sympathetic activity and ambulatory blood pressure in African studies	von Känel R	Psychosom Med. 2015 Jan;77(1):26-32.	2015	2014/12/4	25469684	
39	Comprehensive evaluation of the immune risk phenotype in successfully treated HIV-infected individuals	Ndumbi P	PLoS One. 2015 Feb 3;10(2):e0117039.	2015	2015/2/4	25647167	
40	Absolute leukocyte telomere length in HIV-infected and uninfected individuals: evidence of accelerated cell senescence in HIV-associated chronic obstructive pulmonary disease	Liu JC	PLoS One. 2015 Apr 17;10(4):e0124426.	2015	2015/4/18	25885433	
41	Chronic alcohol increases CD8+ T-cell immunosenescence in simian immunodeficiency virus-infected rhesus macaques	Katz PS	Alcohol. 2015 Dec;49(8):759-65.	2015	2015/11/26	26603633	
42	Increased in vitro glial fibrillary acidic protein expression, telomerase activity, and telomere length after productive human immunodeficiency virus 1 infection in murine astrocytes	Ojeda D	J Neurosci Res. 2014 Feb;92(2):267-74.	2014	2013/11/21	24254728	*
43	Association between short leukocyte telomere length and HIV infection in a cohort study: No evidence of a relationship with antiretroviral therapy	Zanet DL	Clin Infect Dis. 2014 May;58(9):1322-32.	2014	2014/1/25	24457340	*
44	Select neurocognitive impairment in HIV-infected women: associations with HIV viral load, hepatitis C virus, and depression, but not leukocyte telomere length	Giesbrecht CJ	PLoS One. 2014 Mar 4;9(3):e89556.	2014	2014/3/6	24595021	
45	Deoxyribonucleotides as genetic and metabolic regulators	Mathews CK	FASEB J. 2014 Sep;28(9):3832-40.	2014	2014/6/15	24928192	
46	Relationships of pulmonary function, inflammation, and T-cell activation and senescence in an HIV-infected cohort	Fitzpatrick ME	AIDS. 2014 Nov 13;28(17):2505-15.	2014	2015/1/10	25574956	
47	Molecular mechanisms involved in HIV-1-Tat mediated inhibition of telomerase activity in human CD4(+) T lymphocytes	Comandini A	Mol Immunol. 2013 Jun;54(2):181-92.	2013	2013/1/5	23287597	
48	Immunosenescence is associated with presence of Kaposi's sarcoma in antiretroviral treated HIV infection	Unemori P	AIDS. 2013 Jul 17;27(11):1735-42.	2013	2013/2/26	23435301	

49	Shorter telomere length - A potential susceptibility factor for HIV-associated neurocognitive impairments in South African women	Malan-Müller S	PLoS One. 2013;8(3):e58351.	2013	2013/3/9	23472184	*
50	Accelerated biological ageing in HIV-infected individuals in South Africa: a case-control study	Pathai S	AIDS. 2013 Sep 24;27(15):2375-84.	2013	2013/6/12	23751258	*
51	Ocular parameters of biological ageing in HIV-infected individuals in South Africa: relationship with chronological age and systemic biomarkers of ageing	Pathai S	Mech Ageing Dev. 2013 Sep;134(9):400-6.	2013	2013/9/3	23994067	
52	HIV infection induces age-related changes to monocytes and innate immune activation in young men that persist despite combination antiretroviral therapy	Hearps AC	AIDS. 2012 Apr 24;26(7):843-53.	2012	2012/2/9	22313961	
53	Leukocyte telomere length in HIV-infected pregnant women treated with antiretroviral drugs during pregnancy and their uninfected infants	Imam T	J Acquir Immune Defic Syndr. 2012 Aug 15;60(5):495-502.	2012	2012/5/15	22580562	*
54	HIV-1 induces telomerase activity in monocyte-derived macrophages, possibly safeguarding one of its reservoirs	Reynoso R	J Virol. 2012 Oct;86(19):10327-37.	2012	2012/7/13	22787205	*
55	HIV infection and aging of the innate immune system	Hearps AC	Sex Health. 2011 Dec;8(4):453-64.	2011	2011/12/1	22127030	
56	Apoptosis and telomeres shortening related to HIV-1 induced oxidative stress in an astrocytoma cell line	Pollicita M	BMC Neurosci. 2009 May 22;10:51.	2009	2009/5/26	19463156	
57	Progressive telomere shortening of Epstein-Barr virus-specific memory T cells during HIV infection: contributor to exhaustion?	van Baarle D	J Infect Dis. 2008 Nov 1;198(9):1353-7.	2008	2008/9/26	18816191	*
58	A kinetic model of telomere shortening in infants and adults	Sidorov IA	J Theor Biol. 2004 Jan 21;226(2):169-75.	2004	2003/12/4	14643186	
59	Increased peripheral expansion of naive CD4+ T cells in vivo after IL-2 treatment of patients with HIV infection	Natarajan V	Proc Natl Acad Sci U S A. 2002 Aug 6;99(16):10712-7.	2002	2002/8/1	12149467	
60	Divergent telomerase and CD28 expression patterns in human CD4 and CD8 T cells following repeated encounters with the same antigenic stimulus	Valenzuela HF	Clin Immunol. 2002 Nov;105(2):117-25.	2002	2002/12/17	12482386	
61	Analysis of telomere length and thymic output in fast and slow/non-progressors with HIV infection	Richardson MW	Biomed Pharmacother. 2000 Feb;54(1):21-31.	2000	2000/3/18	10721459	
62	Accelerated replicative senescence of the peripheral immune system induced by HIV infection	Bestilny LJ	AIDS. 2000 May 5;14(7):771-80.	2000	2000/6/6	10839584	
63	Long-term telomere dynamics: modest increase of cell turnover in HIV-infected individuals followed for up to 14 years	Feng YR	Pathobiology. 1999;67(1):34-8.	1999	1999/1/5	9873226	
64	Normal T-cell telomerase activity and upregulation in human immunodeficiency virus-1 infection	Wolthers KC	Blood. 1999 Feb 1;93(3):1011-9.	1999	1999/1/28	9920850	*
65	Increases in T cell telomere length in HIV infection after antiretroviral combination therapy for HIV-1 infection implicate distinct population dynamics in CD4+ and CD8+ T cells	Kaushal S	Clin Immunol. 1999 Jul;92(1):14-24.	1999	1999/7/22	10413649	*
66	Telomere loss in peripheral blood mononuclear cells may be moderately accelerated during highly active antiretroviral therapy (HAART)	Hotchkiss G	J Acquir Immune Defic Syndr. 1999 Dec 15;22(5):445-52.	1999	2000/8/29	10961605	*

67	Telomere length, telomerase activity, and replicative potential in HIV infection: analysis of CD4+ and CD8+ T cells from HIV-discordant monozygotic twins	Palmer LD	J Exp Med. 1997 Apr 7;185(7):1381-6.	1997	1997/4/7	9104824	
68	Immunosenescence in HIV pathogenesis	Pommier JP	Virology. 1997 Apr 28;231(1):148-54.	1997	1997/4/28	9143314	*
69	How far can you knock down HIV? An interview with David D. Ho, MD. Interview by Mark Mascolini	Ho DD	J Int Assoc Physicians AIDS Care. 1997 Jun;3(6):40-4.	1997	1997/6/1	11364429	
70	Shortened telomeres in the expanded CD28-CD8+ cell subset in HIV disease implicate replicative senescence in HIV pathogenesis	Effros RB	AIDS. 1996 Jul;10(8):F17-22.	1996	1996/7/1	8828735	*

Telomere & Epstein-Barr Virus

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	New Look of EBV LMP1 Signaling Landscape	Wang L	Cancers (Basel). 2021 Oct 29;13(21):5451.	2021	2021/11/13	34771613	
2	Long-term Culture of EBV-induced Human Lymphoblastoid Cell Lines Reveals Chromosomal Instability	Volleth M	J Histochem Cytochem. 2020 Apr;68(4):239-251.	2020	2020/2/29	32108534	
3	Loneliness and Telomere Length: Immune and Parasympathetic Function in Associations With Accelerated Aging	Wilson SJ	Ann Behav Med. 2019 May 3;53(6):541-550.	2019	2018/8/15	30107521	
4	Insufficient PINX1 expression stimulates telomerase activation by direct inhibition of EBV LMP1-NF-κB axis during nasopharyngeal carcinoma development	Liu Y	Biochem Biophys Res Commun. 2019 Jun 18;514(1):127-133.	2019	2019/4/28	31027734	
5	Whole-Exome Sequencing of Nasopharyngeal Carcinoma Families Reveals Novel Variants Potentially Involved in Nasopharyngeal Carcinoma	Yu G	Sci Rep. 2019 Jul 9;9(1):9916.	2019	2019/7/11	31289279	
6	Extra-telomeric functions of telomerase in the pathogenesis of Epstein-Barr virus-driven B-cell malignancies and potential therapeutic implications	Giunco S	Infect Agent Cancer. 2018 Apr 10;13:14.	2018	2018/4/13	29643934	
7	Regulation of Telomere Homeostasis during Epstein-Barr virus Infection and Immortalization	Kamranvar SA	Viruses. 2017 Aug 9;9(8):217.	2017	2017/8/10	28792435	
8	Telomere Dynamics in Immune Senescence and Exhaustion Triggered by Chronic Viral Infection	Bellon M	Viruses. 2017 Oct 5;9(10):289.	2017	2017/10/6	28981470	
9	LMP1 and Dynamic Progressive Telomere Dysfunction: A Major Culprit in EBV-Associated Hodgkin's Lymphoma	Knecht H	Viruses. 2017 Jun 27;9(7):164.	2017	2017/6/28	28654015	
10	Current Trends and Alternative Scenarios in EBV Research	Minarovits J	Methods Mol Biol. 2017;1532:1-32.	2017	2016/11/23	27873264	
11	Epstein-Barr virus-induced up-regulation of TCAB1 is involved in the DNA damage response in nasopharyngeal carcinoma	Wang K	Sci Rep. 2017 Jun 12;7(1):3218.	2017	2017/6/14	28607398	
12	Characterization of the EBV-Induced Persistent DNA Damage Response	Hafez AY	Viruses. 2017 Dec 1;9(12):366.	2017	2017/12/2	29194355	

13	Persistent Herpesvirus Infections and Telomere Attrition Over 3 Years in the Whitehall II Cohort	Dowd JB	J Infect Dis. 2017 Sep 1;216(5):565-572.	2017	2017/9/22	28931225	
14	Disruption of direct 3D telomere-TRF2 interaction through two molecularly disparate mechanisms is a hallmark of primary Hodgkin and Reed-Sternberg cells	Knecht H	Lab Invest. 2017 Jul;97(7):772-781.	2017	2017/4/25	28436953	
15	[EVALUATION OF DYNAMIC TELOMERE LENGTH SHORTENING OF LYMPHOCYTES IN IMMUNOCOMPROMISED CHILDREN WITH CHRONIC DISEASES OF THE RESPIRATORY]	Khalturina E	Georgian Med News. 2017 May;(266):99-103.	2017	2017/6/20	28628024	
16	Impact of chronic blood viral infection on lymphocyte telomere length in Chernobyl clean-up workers in a remote period after radiation exposure	Iliencko IM	Probl Radiac Med Radiobiol. 2017 Dec;22:372-381.	2017	2017/12/30	29286521	
17	Short-term inhibition of TERT induces telomere length-independent cell cycle arrest and apoptotic response in EBV-immortalized and human-fused B-cells	Celeghein A	Cell Death Dis. 2016 Dec 29;7(12):e2562.	2016	2016/12/30	28032863	
18	A GWAS Meta-analysis and Replication Study Identifies a Novel Locus within CLPTM1L/TERT Associated with Nasopharyngeal Carcinoma in Individuals of Chinese Ancestry	Bei JX	Cancer Epidemiol Biomarkers Prev. 2016 Jan;25(1):188-192.	2016	2015/11/8	26545403	
19	LMP1 mediates multinuclearity through downregulation of shelterin proteins and formation of telomeric aggregates	Lajoie V	Blood. 2015 Mar 26;125(13):2101-10.	2015	2015/1/9	25568351	
20	Fully automated expansion and activation of clinical-grade natural killer cells for adoptive immunotherapy	Granzin M	Cytotherapy. 2015 May;17(5):621-32.	2015	2015/4/18	25881519	
21	Cross talk between EBV and telomerase: the role of TERT and NOTCH2 in the switch of latent/lytic cycle of the virus	Giunco S	Cell Death Dis. 2015 May 28;6(5):e1774.	2015	2015/5/29	26018735	
22	Stable persistence of the yeast plasmid by hitchhiking on chromosomes during vegetative and germ-line divisions of host cells	Sau S	Mob Genet Elements. 2015 Apr 7;5(2):1-8.	2015	2015/10/7	26442178	
23	G-quadruplexes in viruses: function and potential therapeutic applications	Métifiot M	Nucleic Acids Res. 2014 Nov 10;42(20):12352-66.	2014	2014/10/22	25332402	
24	Radiation-induced telomere length variations in normal and in Nijmegen Breakage Syndrome cells	Berardinelli F	Int J Radiat Biol. 2014 Jan;90(1):45-52.	2014	2013/10/31	24168161	
25	Telomere dysfunction and activation of alternative lengthening of telomeres in B-lymphocytes infected by Epstein-Barr virus	Kamranvar SA	Oncogene. 2013 Dec 5;32(49):5522-30.	2013	2013/5/28	23708666	
26	The Epstein-Barr virus nuclear antigen-1 promotes telomere dysfunction via induction of oxidative stress	Kamranvar SA	Leukemia. 2011 Jun;25(6):1017-25.	2011	2011/3/12	21394098	
27	Regulation of Epstein-Barr virus OriP replication by poly(ADP-ribose) polymerase 1	Tempera I	J Virol. 2010 May;84(10):4988-97.	2010	2010/3/12	20219917	
28	Regulation of Epstein-Barr virus origin of plasmid replication (OriP) by the S-phase checkpoint kinase Chk2	Zhou J	J Virol. 2010 May;84(10):4979-87.	2010	2010/3/5	20200249	
29	3D Telomere FISH defines LMP1-expressing Reed-Sternberg cells as end-stage cells with telomere-poor 'ghost' nuclei and very short telomeres	Knecht H	Lab Invest. 2010 Apr;90(4):611-9.	2010	2010/2/10	20142802	
30	Chromosomal rearrangements after ex vivo Epstein-Barr virus (EBV) infection of human B cells	Lacoste S	Oncogene. 2010 Jan 28;29(4):503-15.	2010	2009/11/3	19881539	

31	Epstein-Barr virus episome stability is coupled to a delay in replication timing	Zhou J	J Virol. 2009 Mar;83(5):2154-62.	2009	2008/12/17	19073720	
32	Progressive telomere shortening of Epstein-Barr virus-specific memory T cells during HIV infection: contributor to exhaustion?	van Baarle D	J Infect Dis. 2008 Nov 1;198(9):1353-7.	2008	2008/9/26	18816191	
33	Regulation of telomerase and telomeres: human tumor viruses take control	Bellon M	J Natl Cancer Inst. 2008 Jan 16;100(2):98-108.	2008	2008/1/10	18182620	
34	Conditional immortalization of human B cells by CD40 ligation	Wiesner M	PLoS One. 2008 Jan 23;3(1):e1464.	2008	2008/1/24	18213373	
35	Human herpesvirus 6 integrates within telomeric regions as evidenced by five different chromosomal sites	Nacheva EP	J Med Virol. 2008 Nov;80(11):1952-8.	2008	2008/9/25	18814270	
36	Indications for a disturbed peripheral T-cell homeostasis in juvenile idiopathic arthritis (JIA): absent expansion of CD28 T-cells and no decrease of naive T cells in autoantibody-positive patients with JIA	Prelog M	J Rheumatol. 2008 Mar;35(3):520-7. Epub 2008 Feb 15.	2008	2008/2/19	18278828	
37	Telomerase activity of HIV-1-specific CD8+ T cells: constitutive up-regulation in controllers and selective increase by blockade of PD ligand 1 in mice	Lichterfeld M	Blood. 2008 Nov 1;112(9):3679-87.	2008	2008/8/30	18728248	
38	Oxidative DNA damage repair and parg 1 and parg 2 expression in Epstein-Barr virus-immortalized B lymphocyte cells from young subjects, old subjects, and centenarians	Chevanne M	Rejuvenation Res. 2007 Jun;10(2):191-204.	2007	2007/5/24	17518695	
39	Epstein-Barr virus promotes genomic instability in Burkitt's lymphoma	Kamranvar SA	Oncogene. 2007 Aug 2;26(35):5115-23.	2007	2007/2/28	17325665	
40	Immortalization of Epstein-Barr virus-negative human B lymphocytes with minimal chromosomal instability	Yamashita Y	Pathol Int. 2006 Nov;56(11):659-67.	2006	2006/10/17	17040288	
41	ORC binding to TRF2 stimulates OriP replication	Atanasiu C	EMBO Rep. 2006 Jul;7(7):716-21.	2006	2006/6/27	16799465	
42	Telomere size and telomerase activity in Epstein-Barr virus (EBV)-positive and EBV-negative Burkitt's lymphoma cell lines	Mochida A	Arch Virol. 2005 Oct;150(10):2139-50.	2005	2005/6/30	15986178	
43	Inhibition of Epstein-Barr virus OriP function by tankyrase, a telomere-associated poly-ADP ribose polymerase that binds and modifies EBNA1	Deng Z	J Virol. 2005 Apr;79(8):4640-50.	2005	2005/3/30	15795250	
44	Telomere length and heredity: Indications of paternal inheritance	Nordfjäll K	Proc Natl Acad Sci U S A. 2005 Nov 8;102(45):16374-8.	2005	2005/11/1	16258070	
45	Epstein-Barr virus encoded latent membrane protein 1 modulates nuclear translocation of telomerase reverse transcriptase protein by activating nuclear factor kappaB p65 in human nasopharyngeal	Ding L	Int J Biochem Cell Biol. 2005 Sep;37(9):1881-9.	2005	2005/6/22	15967702	
46	Latent membrane protein-1 of Epstein - Barr virus increases sensitivity to arsenic trioxide-induced apoptosis in nasopharyngeal carcinoma cell	Du CW	Exp Oncol. 2005 Dec;27(4):267-72.	2005	2006/1/13	16404345	
47	The impact of telomere erosion on memory CD8+ T cells in patients with X-linked lymphoproliferative syndrome	Plunkett FJ	Mech Ageing Dev. 2005 Aug;126(8):855-65.	2005	2005/7/5	15992610	
48	Differential cytotoxicity of anticancer agents in pre- and post-immortal lymphoblastoid cell lines	Sawada K	Biol Pharm Bull. 2005 Jul;28(7):1202-7.	2005	2005/7/6	15997098	

49	Human chronic lymphocytic leukemia B cells can escape DNA damage-induced apoptosis through the nonhomologous end-joining DNA repair pathway	Deriano L	Blood. 2005 Jun 15;105(12):4776-83.	2005	2005/2/19	15718417	
50	Protein and sequence requirements for the recruitment of the human origin recognition complex to the latent cycle origin of DNA replication of Epstein-Barr virus oriP	Julien MD	Virology. 2004 Sep 1;326(2):317-28.	2004	2004/8/11	15302216	
51	Integration of apoptosis and telomere erosion in virus-specific CD8+ T cells from blood and tonsils during primary infection	Soares MV	Blood. 2004 Jan 1;103(1):162-7.	2004	2003/9/13	12969961	
52	Role for a region of helically unstable DNA within the Epstein-Barr virus latent cycle origin of DNA replication oriP in origin function	Polonskaya Z	Virology. 2004 Oct 25;328(2):282-91.	2004	2004/10/7	15464848	
53	Telomere repeat binding factors TRF1, TRF2, and hRAP1 modulate replication of Epstein-Barr virus OriP	Deng Z	J Virol. 2003 Nov;77(22):11992-2001.	2003	2003/10/29	14581536	
54	Hypothesis: a novel route for immortalization of epithelial cells by Epstein-Barr virus	Gao Y	Oncogene. 2002 Jan 24;21(5):825-35.	2002	2002/2/19	11850810	
55	Telomeric proteins regulate episomal maintenance of Epstein-Barr virus origin of plasmid replication	Deng Z	Mol Cell. 2002 Mar;9(3):493-503.	2002	2002/4/5	11931758	
56	The flow cytometric analysis of telomere length in antigen-specific CD8+ T cells during acute Epstein-Barr virus infection	Plunkett FJ	Blood. 2001 Feb 1;97(3):700-7.	2001	2001/2/7	11157487	
57	Telomerase activity in cell lines and lymphoma originating from Bloom syndrome	Kaneko H	Leuk Lymphoma. 2001 Aug;42(4):757-60.	2001	2001/11/8	11697506	
58	The left-end and right-end origins of minute virus of mice DNA differ in their capacity to direct episomal amplification and integration in vivo	Corsini J	Virology. 2001 Sep 15;288(1):154-63.	2001	2001/9/7	11543668	
59	Molecular biology of Burkitt's lymphoma	Hecht JL	J Clin Oncol. 2000 Nov 1;18(21):3707-21.	2000	2000/10/31	11054444	
60	Reconsideration of senescence, immortalization and telomere maintenance of Epstein-Barr virus-transformed human B-lymphoblastoid cell lines	Sugimoto M	Mech Ageing Dev. 1999 Feb 1;107(1):51-60.	1999	1999/4/10	10197788	
61	Analysis of a YAC with human telomeres and oriP from Epstein-Barr virus in yeast and 293 cells	Tolmachova T	Nucleic Acids Res. 1999 Sep 15;27(18):3736-44.	1999	1999/9/3	10471744	
62	Abnormal telomere dynamics of B-lymphoblastoid cell strains from Werner's syndrome patients transformed by Epstein-Barr virus	Tahara H	Oncogene. 1997 Oct 16;15(16):1911-20.	1997	1997/11/19	9365237	
63	The DNA sequence of human herpesvirus-6: structure, coding content, and genome evolution	Gompels UA	Virology. 1995 May 10;209(1):29-51.	1995	1995/5/10	7747482	
64	Stabilization of short telomeres and telomerase activity accompany immortalization of Epstein-Barr virus-transformed human B-lymphocytes	Counter CM	J Virol. 1994 May;68(5):3410-4.	1994	1994/5/1	8151802	
65	Long range restriction map of the von Hippel-Lindau gene region on human chromosome 3p	Szymanski SC	Hum Genet. 1993 Oct 1;92(3):282-8.	1993	1993/10/1	8406436	

Telomere & Coronavirus

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Identifying potential novel insights for COVID-19 pathogenesis and therapeutics using an integrated bioinformatics analysis of host transcriptome	El-Aarag SA	Int J Biol Macromol. 2022 Jan 1;194:770-780.	2022	2021/11/26	34826456	
2	Understanding the role of telomere attrition and epigenetic signatures in COVID-19 severity	Mahmoodpoor A	Gene. 2022 Feb 15;811:146069.	2022	2021/12/1	34848322	*
3	Association of Telomere Length With Risk of Disease and Mortality	Schneider CV	JAMA Intern Med. 2022 Jan 18.	2022	2022/1/18	35040871	
4	The role of extracellular DNA in COVID-19: Clues from inflamm-aging	Storci G	Ageing Res Rev. 2021 Mar;66:101234.	2021	2020/12/15	33321254	
5	Shorter telomere lengths in patients with severe COVID-19 disease	Sanchez-Vazquez R	Aging (Albany NY). 2021 Jan 11;13(1):1-15.	2021	2021/1/11	33428591	*
6	The Nexus Between Telomere Length and Lymphocyte Count in Seniors Hospitalized With COVID-19	Benetos A	J Gerontol A Biol Sci Med Sci. 2021 Jul 13;76(8):e97-e101.	2021	2021/2/2	33528568	*
7	DNA methylation architecture of the ACE2 gene in nasal cells of children	Cardenas A	Sci Rep. 2021 Mar 29;11(1):7107.	2021	2021/3/30	33782449	
8	Pulmonary fibrosis 4 months after COVID-19 is associated with severity of illness and blood leucocyte telomere length	McGroder CF	Thorax. 2021 Dec;76(12):1242-1245.	2021	2021/4/30	33927016	
9	Identifying Biomarkers for Biological Age: Geroscience and the ICFSR Task Force	LeBrasseur NK	J Frailty Aging. 2021;10(3):196-201.	2021	2021/6/9	34105701	
10	Shorter leukocyte telomere length is associated with severity of COVID-19 infection	Dos Santos GA	Biochem Biophys Rep. 2021 Sep;27:101056.	2021	2021/6/21	34151032	*
11	Evidence for Biological Age Acceleration and Telomere Shortening in COVID-19 Survivors	Mongelli A	Int J Mol Sci. 2021 Jun 7;22(11):6151.	2021	2021/7/2	34200325	*
12	Short Telomeres and a T-Cell Shortfall in COVID-19: The Aging Effect	Anderson JJ	medRxiv. 2021 Jul 10:2021.05.19.21257474.	2021	2021/7/16	34268523	*
13	Shorter leukocyte telomere length is associated with adverse COVID-19 outcomes: A cohort study in UK Biobank	Wang Q	EBioMedicine. 2021 Aug;70:103485.	2021	2021/7/25	34304048	*
14	Impact of covid-19 on mental health and aging	Sharma P	Saudi J Biol Sci. 2021 Dec;28(12):7046-7053.	2021	2021/8/11	34377058	
15	Telomere length: biological marker of cellular vitality, aging, and health-disease process	Teixeira MZ	Rev Assoc Med Bras (1992). 2021 Feb;67(2):173-177.	2021	2021/8/18	34406239	*
16	Epigenetic Clocks Are Not Accelerated in COVID-19 Patients	Franzen J	Int J Mol Sci. 2021 Aug 27;22(17):9306.	2021	2021/9/10	34502212	
17	SARS-CoV-2 triggers DNA damage response in Vero E6 cells	Victor J	Biochem Biophys Res Commun. 2021 Nov 19;579:141-145.	2021	2021/10/2	34600299	*

18	Role of senescence in the chronic health consequences of COVID-19	Wissler Gerdes EO	Transl Res. 2021 Oct 22;S1931-5244(21)00259-0.	2021	2021/10/25	34695606	
19	DNA damage response at telomeres boosts the transcription of SARS-CoV-2 receptor ACE2 during aging	Sepe S	EMBO Rep. 2021 Dec 2:e53658.	2021	2021/12/2	34854526	*
20	Metformin for Cardiovascular Protection, Inflammatory Bowel Disease, Osteoporosis, Periodontitis, Polycystic Ovarian Syndrome, Neurodegeneration, Cancer, Inflammation and Senescence: What Is	Ala M	ACS Pharmacol Transl Sci. 2021 Nov 1;4(6):1747-1770.	2021	2021/12/20	34927008	
21	Telomeres and COVID-19	Aviv A	FASEB J. 2020 Jun;34(6):7247-7252.	2020	2020/5/20	32427393	*
22	Influence of NAD+ as an ageing-related immunomodulator on COVID-19 infection: A hypothesis	Omran HM	J Infect Public Health. 2020 Sep;13(9):1196-1201.	2020	2020/6/15	32534944	*
23	COVID-19 and Crosstalk With the Hallmarks of Aging	Salimi S	J Gerontol A Biol Sci Med Sci. 2020 Sep 16;75(9):e34-e41.	2020	2020/6/17	32544216	*
24	Age-dependent assessment of genes involved in cellular senescence, telomere and mitochondrial pathways in human lung tissue of smokers, COPD and IPF: Associations with SARS-CoV-2 COVID-19	Maremanda KP	medRxiv. 2020 Jun 16:2020.06.14.20129957.	2020	2020/6/27	32587985	
25	Age-dependent assessment of genes involved in cellular senescence, telomere and mitochondrial pathways in human lung tissue of smokers, COPD and IPF: Associations with SARS-CoV-2 COVID-19	Maremanda KP	Res Sq. 2020 Jun 15:rs.3.rs-35347.	2020	2020/7/24	32702724	
26	Age-induced NLRP3 Inflammasome Over-activation Increases Lethality of SARS-CoV-2 Pneumonia in Elderly Patients	Lara PC	Aging Dis. 2020 Jul 23;11(4):756-762.	2020	2020/8/9	32765942	
27	Telomere length, epidemiology and pathogenesis of severe COVID-19	Tsilingiris D	Eur J Clin Invest. 2020 Oct;50(10):e13376.	2020	2020/9/4	32880939	
28	DNA Methylation Architecture of the ACE2 gene in Nasal Cells	Cardenas A	medRxiv. 2020 Sep 16:2020.08.25.20182105.	2020	2020/9/30	32995808	
29	Age-Dependent Assessment of Genes Involved in Cellular Senescence, Telomere, and Mitochondrial Pathways in Human Lung Tissue of Smokers, COPD and IPF: Associations With SARS-CoV-2 COVID-19	Maremanda KP	Front Pharmacol. 2020 Sep 9;11:584637.	2020	2020/10/5	33013423	
30	A Mechanism for Severity of Disease in Older Patients with COVID-19: The Nexus between Telomere Length and Lymphopenia	Benetos A	medRxiv. 2020 Oct 4:2020.10.01.20205393.	2020	2020/10/7	33024983	*
31	Short telomeres increase the risk of severe COVID-19	Froidure A	Aging (Albany NY). 2020 Oct 26;12(20):19911-19922.	2020	2020/10/26	33104521	*
32	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection: Triggering a Lethal Fight to Keep Control of the Ten-Eleven Transposase (TET) Associated DNA Demethylation?	Kouidou S	Pathogens. 2020 Nov 30;9(12):1006.	2020	2020/12/3	33266135	
33	Does Longer Leukocyte Telomere Length and Higher Physical Fitness Protect Master Athletes From Consequences of Coronavirus (SARS-CoV-2) Infection?	Simões HG	Front Sports Act Living. 2020 Jun 16;2:87.	2020	2020/12/21	33345078	*

Telomere & Lupus Erythematosus

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
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1	Association of the PINX1 Variant rs6984094, Which Lengthens Telomeres, with Systemic Lupus Erythematosus Susceptibility in Chinese Populations	Qi YY	J Immunol Res. 2021 Jul 13;2021:7079359.	2021	2021/8/2	34337078	
2	Functionally impaired plasmacytoid dendritic cells and non-haematopoietic sources of type I interferon characterize human autoimmunity	Psarras A	Nat Commun. 2020 Dec 1;11(1):6149.	2020	2020/12/2	33262343	
3	Molecular and Cellular Bases of Immunosenescence, Inflammation, and Cardiovascular Complications Mimicking "Inflammaging" in Patients with Systemic Lupus Erythematosus	Tsai CY	Int J Mol Sci. 2019 Aug 9;20(16):3878.	2019	2019/8/10	31395799	
4	Transcriptomics in tissue glucocorticoid sensitivity	Nicolaides NC	Eur J Clin Invest. 2019 Aug;49(8):e13129.	2019	2019/5/16	31091335	
5	Genetic overlap between autoimmune diseases and non-Hodgkin lymphoma subtypes	Din L	Genet Epidemiol. 2019 Oct;43(7):844-863.	2019	2019/8/14	31407831	
6	Vitamin D level and risk of systemic lupus erythematosus and rheumatoid arthritis: a Mendelian randomization	Bae SC	Clin Rheumatol. 2018 Sep;37(9):2415-2421.	2018	2018/5/26	29799605	
7	Association between shortened telomere length and systemic lupus erythematosus: a meta-analysis	Lee YH	Lupus. 2017 Mar;26(3):282-288.	2017	2016/8/12	27510600	
8	Aging and Systemic Lupus Erythematosus - Immunosenescence and Beyond	van den Hoogen LL	Curr Aging Sci. 2015;8(2):158-77.	2015	2015/7/28	26212055	
9	Proteins induced by telomere dysfunction are associated with human IgA nephropathy	Lu YY	J Zhejiang Univ Sci B. 2014 Jun;15(6):566-74.	2014	2014/6/7	24903994	
10	Shortened telomere length in patients with systemic lupus erythematosus	Haque S	Arthritis Rheum. 2013 May;65(5):1319-23.	2013	2013/2/13	23400670	
11	Telomere length in patients with systemic lupus erythematosus and its associations with carotid plaque	Skamra C	Rheumatology (Oxford). 2013 Jun;52(6):1101-8.	2013	2013/2/6	23382361	
12	Systemic lupus erythematosus and vitamin D deficiency are associated with shorter telomere length among African Americans: a case-control study	Hoffecker BM	PLoS One. 2013 May 20;8(5):e63725.	2013	2013/5/24	23700431	
13	Accelerated telomere shortening in rheumatic diseases: cause or consequence?	Dehbi AZ	Expert Rev Clin Immunol. 2013 Dec;9(12):1193-204.	2013	2013/11/13	24215409	
14	Fibrosis and subsequent cytopenias are associated with basic fibroblast growth factor-deficient pluripotent mesenchymal stromal cells in large granular lymphocyte leukemia	Mailloux AW	J Immunol. 2013 Oct 1;191(7):3578-93.	2013	2013/9/10	24014875	
15	Nonrenal and renal activity of systemic lupus erythematosus: a comparison of two anti-C1q and five anti-dsDNA assays and complement C3 and C4	Julkunen H	Rheumatol Int. 2012 Aug;32(8):2445-51.	2012	2011/6/28	21706294	
16	Changes in the expression of telomere maintenance genes might play a role in the pathogenesis of systemic lupus erythematosus	Zhou JG	Lupus. 2011 Jul;20(8):820-8.	2011	2011/6/23	21693493	
17	[Telomeres and telomerase: relevance and future prospects in systemic lupus erythematosus]	Georgin-Lavialle S	Rev Med Interne. 2010 May;31(5):345-52.	2010	2010/4/6	20363058	
18	The telomere/telomerase system in autoimmune and systemic immune-mediated diseases	Georgin-Lavialle S	Autoimmun Rev. 2010 Aug;9(10):646-51.	2010	2010/5/4	20435169	

19	Telomerase activity in connective tissue diseases: elevated in rheumatoid arthritis, but markedly decreased in systemic sclerosis	Tarhan F	Rheumatol Int. 2008 Apr;28(6):579-83.	2008	2007/10/17	17938929	
20	Telomere length analysis in monocytes and lymphocytes from patients with systemic lupus erythematosus using multi-color flow-FISH	Beier F	Lupus. 2007;16(12):955-62.	2007	2007/11/29	18042589	
21	[Abnormalities in lymphocyte telomerase activity and telomere length in systemic lupus erythematosus]	Kurosaka D	Nihon Rinsho Meneki Gakkai Kaishi. 2007 Feb;30(1):29-36.	2007	2007/3/3	17332702	
22	Premature telomere shortening in polymorphonuclear neutrophils from patients with systemic lupus erythematosus is related to the lupus disease activity	Wu CH	Lupus. 2007;16(4):265-72.	2007	2007/4/19	17439933	
23	Abnormal telomerase activity and telomere length in T and B cells from patients with systemic lupus erythematosus	Kurosaka D	J Rheumatol. 2006 Jun;33(6):1102-7.	2006	2006/6/7	16755657	
24	Abnormal differentiation of memory T cells in systemic lupus erythematosus	Fritsch RD	Arthritis Rheum. 2006 Jul;54(7):2184-97.	2006	2006/6/28	16802356	
25	[Telomerase activity and telomere length in CD4+,CD8+ and CD19+ lymphocytes from patients with systemic lupus erythematosus]	Lin J	Zhejiang Da Xue Xue Bao Yi Xue Ban. 2005 Nov;34(6):534-7.	2005	2005/12/7	16331816	
26	Anti-telomere antibodies in systemic lupus erythematosus (SLE): a comparison with five antinuclear antibody assays in 430 patients with SLE and other rheumatic diseases	Salonen EM	Ann Rheum Dis. 2004 Oct;63(10):1250-4.	2004	2004/9/14	15361381	
27	Telomerase activity and telomere length of peripheral blood mononuclear cells in SLE patients	Kurosaka D	Lupus. 2003;12(8):591-9.	2003	2003/8/30	12945717	
28	Telomere shortening and decreased replicative potential, contrasted by continued proliferation of telomerase-positive CD8+CD28(lo) T cells in patients with systemic lupus erythematosus	Honda M	Clin Immunol. 2001 May;99(2):211-221.	2001	2001/4/25	11318593	
29	Anti-telomere antibodies in systemic lupus erythematosus: a new ELISA test for anti-DNA with potential pathogenetic implications	Wallace DJ	Lupus. 2000;9(5):328-32.	2000	2000/7/6	10878723	
30	Anti-telomere antibodies in systemic lupus erythematosus	Reichlin M	Lupus. 2000;9(5):317.	2000	2000/7/6	10878720	
31	A molecular genetic linkage map of mouse chromosome 19, including the lpr, Ly-44, and Tdt genes	Watanabe T	Biochem Genet. 1991 Aug;29(7-8):325-35.	1991	1991/8/1	1684099	

Telomere & Scleroderma

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Autoantibodies targeting telomere-associated proteins in systemic sclerosis	Adler BL	Ann Rheum Dis. 2021 Jul;80(7):912-919.	2021	2021/1/26	33495152	
2	Molecular markers of telomere dysfunction and senescence are common findings in the usual interstitial pneumonia pattern of lung fibrosis	Lee JS	Histopathology. 2021 Jul;79(1):67-76.	2021	2021/1/12	33432658	
3	Peripheral blood leucocyte telomere length is associated with progression of interstitial lung disease in systemic sclerosis	Liu S	Thorax. 2021 Dec;76(12):1186-1192.	2021	2021/7/17	34272332	

4	Parental influence on systemic sclerosis	Frech TM	Arthritis Care Res (Hoboken). 2015 Feb;67(2):310-2.	2015	2014/4/24	24757045	
5	Bilateral stenosis of carotid siphon in Hutchinson-Gilford progeria syndrome	Narazaki R	Brain Dev. 2013 Aug;35(7):690-3.	2013	2012/11/13	23141186	
6	[WRN gene]	Katsuya T	Nihon Rinsho. 2009 Jul;67(7):1277-82.	2009	2009/7/14	19591272	
7	Association of increased telomere lengths in limited scleroderma, with a lack of age-related telomere erosion	MacIntyre A	Ann Rheum Dis. 2008 Dec;67(12):1780-2.	2008	2008/7/30	18662931	
8	Telomere reduction in scleroderma patients: a possible cause for chromosomal instability	Artlett CM	Br J Rheumatol. 1996 Aug;35(8):732-7.	1996	1996/8/1	8761184	

Telomere & Celiac Disease

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Telomere shortening and TNF-α: gateway for psoriasis in celiac disease?	Mormile R	G Ital Dermatol Venereol. 2019 Jun;154(3):370-371.	2019	2018/2/9	29417795	
2	Association Between Telomere Length and Risk of Cancer and Non-Neoplastic Diseases: A Mendelian Randomization Study	Telomeres Mendelian Randomization	JAMA Oncol. 2017 May 1;3(5):636-651.	2017	2017/2/28	28241208	
3	Celiac disease autoimmunity is associated with leukocyte telomere shortening in older adults: The U.S. National Health and Nutrition Examination Survey	Kamycheva E	Exp Gerontol. 2017 Mar;89:64-68.	2017	2017/1/21	28104447	
4	Glutathione S-transferase gene polymorphisms in celiac disease and their correlation with genomic instability phenotype	Fundia AF	Clin Res Hepatol Gastroenterol. 2014 Jun;38(3):379-84.	2014	2014/2/26	24565472	
5	Telomere length study in celiac disease	Cottliar A	Am J Gastroenterol. 2003 Dec;98(12):2727-31.	2003	2003/12/23	14687824	