

"Telomere & Digestive System" Articles

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Digestive System Include Liver Disease, Ulcerative Colitis, Gastroesophageal Reflux

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Telomere & Liver Disease

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Interstitial lung diseases associated with mutations of poly(A)-specific ribonuclease: A multicentre retrospective study	Philippot Q	Respirology. 2022 Jan 3.	2022	2022/1/4	34981600	
2	Telomere length is key to hepatocellular carcinoma diversity and telomerase addiction is an actionable therapeutic target	Ningarhari M	J Hepatol. 2021 May;74(5):1155-1166.	2021	2020/12/18	33338512	*
3	Association of leukocyte telomere length with obesity-related traits in Asian children with early-onset obesity	Ooi DSQ	Pediatr Obes. 2021 Aug;16(8):e12771.	2021	2021/1/27	33501739	
4	Telomerase: a key player in the pathogenesis of non-alcoholic fatty liver disease?	Tang LJ	Expert Rev Gastroenterol Hepatol. 2021 Jul;15(7):811-819.	2021	2021/3/12	33709875	
5	Neutrophils induce paracrine telomere dysfunction and senescence in ROS-dependent manner	Lagnado A	EMBO J. 2021 May 3;40(9):e106048.	2021	2021/3/25	33764576	
6	Hepatic Senescence Accompanies the Development of NAFLD in Non-Aged Mice Independently of Obesity	Moustakas II	Int J Mol Sci. 2021 Mar 26;22(7):3446.	2021	2021/4/3	33810566	
7	Antidiabetic E4orf1 protein prevents hepatic steatosis and reduces markers of aging-related cellular damage in high fat fed older mice	Mostofinejad Z	BMJ Open Diabetes Res Care. 2021 May;9(1):e002096.	2021	2021/5/4	33941552	
8	Fructose Causes Liver Damage, Polyploidy, and Dysplasia in the Setting of Short Telomeres and p53 Loss	Chronowski C	Metabolites. 2021 Jun 17;11(6):394.	2021	2021/7/2	34204343	
9	Impact of Aging on Liver Cells and Liver Disease: Focus on the Biliary and Vascular Compartments	Baiocchi L	Hepatol Commun. 2021 Apr 10;5(7):1125-1137.	2021	2021/7/19	34278165	
10	Association between telomere length and hepatic fibrosis in non-alcoholic fatty liver disease	Shin HK	Sci Rep. 2021 Sep 9;11(1):18004.	2021	2021/9/10	34504179	
11	Inverse Association of Telomere Length With Liver Disease and Mortality in the US Population	Rattan P	Hepatol Commun. 2021 Aug 28.	2021	2021/9/24	34558851	*
12	PinX1 Depletion Improves Liver Injury in a Mouse Model of Nonalcoholic Fatty Liver Disease via Increasing Telomerase Activity and Inhibiting Apoptosis	Huang E	Cytogenet Genome Res. 2021;161(8-9):449-462.	2021	2021/10/17	34657040	

13	Liver Histology in Short Telomere Syndrome: A Case Report and Review of the Literature	Bai L	Int J Surg Pathol. 2021 Oct 29;10668969211054102.	2021	2021/10/29	34714693	
14	Disease Progression and Clinical Outcomes in Telomere Biology Disorders	Niewisch MR	Blood. 2021 Dec 1;blood.2021013523.	2021	2021/12/1	34852175	
15	Prognostic significance of serum telomerase activity in the monitoring of hepatitis B viral infection	Adelakun AA	J Immunoassay Immunochem. 2021 Dec 3;1-9.	2021	2021/12/4	34861808	
16	Hepatitis C Virus Nonstructural 5A Protein Interacts with Telomere Length Regulation Protein: Implications for Telomere Shortening in Patients Infected with HCV	Lim YS	Mol Cells. 2021 Dec 15.	2021	2021/12/24	34949741	*
17	The Role of Senescence in the Development of Nonalcoholic Fatty Liver Disease and Progression to Nonalcoholic Steatohepatitis	Papatheodoridi AM	Hepatology. 2020 Jan;71(1):363-374.	2020	2019/6/24	31230380	
18	Successful liver transplantation in short telomere syndromes without bone marrow failure due to DKC1 mutation	Del Brío Castillo R	Pediatr Transplant. 2020 May;24(3):e13695.	2020	2020/3/14	32166868	*
19	Shorter leucocyte telomere length as a potential biomarker for nonalcoholic fatty liver disease-related advanced fibrosis in T2DM patients	Dong K	Ann Transl Med. 2020 Mar;8(6):308.	2020	2020/5/2	32355752	
20	Epigenetics of Primary Biliary Cholangitis	Li Y	Adv Exp Med Biol. 2020;1253:259-283.	2020	2020/5/24	32445099	
21	Telomere Dysfunction Activates p53 and Represses HNF4α Expression Leading to Impaired Human Hepatocyte Development and Function	Munroe M	Hepatology. 2020 Oct;72(4):1412-1429.	2020	2020/6/10	32516515	*
22	Short Telomeres: Cause and Consequence in Liver Disease	Penrice DD	Semin Liver Dis. 2020 Nov;40(4):385-391.	2020	2020/6/12	32526789	*
23	Comparable Effects of the Androgen Derivatives Danazol, Oxymetholone and Nandrolone on Telomerase Activity in Human Primary Hepatocytic Cells from Patients with Dyskeratosis Congenita	Vieri M	Int J Mol Sci. 2020 Sep 29;21(19):7196.	2020	2020/10/2	33003434	
24	Relationship between Telomere Maintenance and Liver Disease	Barnard A	Gut Liver. 2019 Jan 15;13(1):11-15.	2019	2018/11/8	30400735	*
25	Pathogenic TERT promoter variants in telomere diseases	Gutierrez-Rodriguez F	Genet Med. 2019 Jul;21(7):1594-1602.	2019	2018/12/8	30523342	
26	The Spectrum of Hepatic Involvement in Patients With Telomere Disease	Kapuria D	Hepatology. 2019 Jun;69(6):2579-2585.	2019	2019/2/22	30791107	*
27	Influence of donor liver telomere and G-tail on clinical outcome after living donor liver transplantation	Liu B	PLoS One. 2019 Mar 7;14(3):e0213462.	2019	2019/3/8	30845248	*
28	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease	Amano H	Cell Metab. 2019 Jun 4;29(6):1274-1290.e9.	2019	2019/4/2	30930169	
29	Telomerase Variants in Patients with Cirrhosis Awaiting Liver Transplantation	Chiu V	Hepatology. 2019 Jun;69(6):2652-2663.	2019	2019/4/10	30964210	
30	Leukocyte mitochondrial DNA copy number as a potential biomarker indicating poor outcome in biliary atresia and its association with oxidative DNA damage and telomere length	Udomsinprasert W	Mitochondrion. 2019 Jul;47:1-9.	2019	2019/4/25	31014977	

31	The role of telomeres and telomerase in cirrhosis and liver cancer	Nault JC	Nat Rev Gastroenterol Hepatol. 2019 Sep;16(9):544-558.	2019	2019/6/30	31253940	*
32	Association of leukocyte telomere length with non-alcoholic fatty liver disease in patients with type 2 diabetes	Zhang M	Chin Med J (Engl). 2019 Dec 20;132(24):2927-2933.	2019	2019/12/7	31809318	
33	Telomerase enzyme deficiency promotes metabolic dysfunction in murine hepatocytes upon dietary stress	Alves-Paiva RM	Liver Int. 2018 Jan;38(1):144-154.	2018	2017/7/26	28741793	*
34	Telomere, telomerase and liver disease	Aravinthan AD	Liver Int. 2018 Jan;38(1):33-34.	2018	2017/12/23	29272567	*
35	Activated carbon N-acetylcysteine microcapsule protects against nonalcoholic fatty liver disease in young rats via activating telomerase and inhibiting apoptosis	Shi T	PLoS One. 2018 Jan 11;13(1):e0189856.	2018	2018/1/12	29324774	
36	Hepatocyte Growth Factor Improves the Therapeutic Efficacy of Human Bone Marrow Mesenchymal Stem Cells via RAD51	Lee EJ	Mol Ther. 2018 Mar 7;26(3):845-859.	2018	2018/2/6	29398486	
37	Diagnostic utility of telomere length testing in a hospital-based setting	Alder JK	Proc Natl Acad Sci U S A. 2018 Mar 6;115(10):E2358-E2365.	2018	2018/2/22	29463756	
38	Leucocyte telomere shortening is associated with nonalcoholic fatty liver disease-related advanced fibrosis	Kim D	Liver Int. 2018 Oct;38(10):1839-1848.	2018	2018/5/26	29797393	*
39	Deoxyribonucleic acid telomere length shortening can predict the incidence of non-alcoholic fatty liver disease in patients with type 2 diabetes mellitus	Ping F	J Diabetes Investig. 2017 Mar;8(2):174-180.	2017	2016/7/26	27451965	
40	Telomerase reverse transcriptase germline mutations and hepatocellular carcinoma in patients with nonalcoholic fatty liver disease	Donati B	Cancer Med. 2017 Aug;6(8):1930-1940.	2017	2017/7/6	28677271	*
41	Shorter Leukocyte Telomere Length in Relation to Presumed Nonalcoholic Fatty Liver Disease in Mexican-American Men in NHANES 1999-2002	Wojcicki JM	Int J Hepatol. 2017;2017:8435178.	2017	2017/7/26	28740738	
42	Malignant transformation of oral leukoplakia in a patient with dyskeratosis congenita	Bongiorno M	Oral Surg Oral Med Oral Pathol Oral Radiol. 2017 Oct;124(4):e239-e242.	2017	2017/9/20	28923296	
43	EFFECT THE CARDIOMETABOLIC RISK FACTORS ON VASCULAR AGING IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE CONCOMITANT WITH CLINICAL HYDROLIPIDEM	Kolesnikova E	Georgian Med News. 2017 Sep;(270):69-75.	2017	2017/10/4	28972487	
44	TERT promoter mutations in primary liver tumors	Nault JC	Clin Res Hepatol Gastroenterol. 2016 Feb;40(1):9-14.	2016	2015/9/5	26336998	
45	Differential timing of oxidative DNA damage and telomere shortening in hepatitis C and B virus-related liver carcinogenesis	Piciocchi M	Transl Res. 2016 Feb;168:122-133.	2016	2015/9/27	26408804	
46	Longer telomeres in chronic, moderate, unconjugated hyperbilirubinaemia: insights from a human study on Gilbert's Syndrome	Tosevska A	Sci Rep. 2016 Mar 1;6:22300.	2016	2016/3/2	26926838	
47	Telomeres, NAFLD and Chronic Liver Disease	Donati B	Int J Mol Sci. 2016 Mar 15;17(3):383.	2016	2016/3/22	26999107	*
48	Loss-of-function mutations in the RNA biogenesis factor NAF1 predispose to pulmonary fibrosis-emphysema	Stanley SE	Sci Transl Med. 2016 Aug 10;8(351):351ra107.	2016	2016/8/12	27510903	

49	Aneuploidy and asynchronous replication in non-alcoholic fatty liver disease and cryptogenic cirrhosis	Laish I	Gene. 2016 Nov 15;593(1):162-166.	2016	2016/8/14	27520584	
50	Telomere Dysfunction in Nonalcoholic Fatty Liver Disease and Cryptogenic Cirrhosis	Laish I	Cytogenet Genome Res. 2016;150(2):93-99.	2016	2016/12/23	28006764	*
51	Telomere shortening as genetic risk factor of liver cirrhosis	Carulli L	World J Gastroenterol. 2015 Jan 14;21(2):379-83.	2015	2015/1/17	25593453	*
52	NFκB1 is a suppressor of neutrophil-driven hepatocellular carcinoma	Wilson CL	Nat Commun. 2015 Apr 16;6:6818.	2015	2015/4/17	25879839	
53	Cell therapy from bench to bedside: Hepatocytes from fibroblasts - the truth and myth of transdifferentiation	Sanal MG	World J Gastroenterol. 2015 Jun 7;21(21):6427-33.	2015	2015/6/16	26074681	
54	Hepatopulmonary syndrome is a frequent cause of dyspnea in the short telomere disorders	Gorgy AI	Chest. 2015 Oct;148(4):1019-1026.	2015	2015/7/10	26158642	*
55	Cell-based therapies of liver diseases: age-related challenges	Yarygin KN	Clin Interv Aging. 2015 Dec 1;10:1909-24.	2015	2015/12/15	26664104	
56	Oxidative damage in the progression of chronic liver disease to hepatocellular carcinoma: an intricate pathway	Cardin R	World J Gastroenterol. 2014 Mar 28;20(12):3078-86.	2014	2014/4/4	24696595	
57	Telomere and telomerase in chronic liver disease and hepatocarcinoma	Carulli L	World J Gastroenterol. 2014 May 28;20(20):6287-92.	2014	2014/5/31	24876749	*
58	The role of telomeres in liver disease	Sunami Y	Prog Mol Biol Transl Sci. 2014;125:159-72.	2014	2014/7/5	24993702	*
59	Bone marrow failure and the telomeropathies	Townsley DM	Blood. 2014 Oct 30;124(18):2775-83.	2014	2014/9/20	25237198	
60	Hepatocyte senescence predicts progression in non-alcohol-related fatty liver disease	Aravinthan A	J Hepatol. 2013 Mar;58(3):549-56.	2013	2012/11/13	23142622	
61	Updates on the biology and management of dyskeratosis congenita and related telomere biology disorders	Ballew BJ	Expert Rev Hematol. 2013 Jun;6(3):327-37.	2013	2013/6/21	23782086	
62	Telomere shortening in liver transplant recipients is not influenced by underlying disease or metabolic derangements	Uziel O	Ann Transplant. 2013 Oct 21;18:567-75.	2013	2013/10/22	24141383	*
63	Hepatocellular telomere length in biliary atresia measured by Q-FISH	Sanada Y	World J Surg. 2012 Apr;36(4):908-16.	2012	2012/2/8	22311140	*
64	Sustained telomere length in hepatocytes and cholangiocytes with increasing age in normal liver	Verma S	Hepatology. 2012 Oct;56(4):1510-20.	2012	2012/4/17	22504828	*
65	The dual impact of HIV-1 infection and aging on naïve CD4 T-cells: additive and distinct patterns of impairment	Rickabaugh TM	PLoS One. 2011 Jan 26;6(1):e16459.	2011	2011/2/8	21298072	
66	Longer leukocyte telomere length predicts increased risk of hepatitis B virus-related hepatocellular carcinoma: a case-control analysis	Liu J	Cancer. 2011 Sep 15;117(18):4247-56.	2011	2011/3/10	21387275	*

67	Constitutional telomerase mutations are genetic risk factors for cirrhosis	Calado RT	Hepatology. 2011 May;53(5):1600-7.	2011	2011/4/27	21520173	*
68	Telomerase gene mutations are associated with cirrhosis formation	Hartmann D	Hepatology. 2011 May;53(5):1608-17.	2011	2011/4/27	21520174	*
69	Nuclear size measurement is a simple method for the assessment of hepatocellular aging in non-alcoholic fatty liver disease: Comparison with telomere specific quantitative FISH and p21	Nakajima T	Pathol Int. 2010 Mar;60(3):175-83.	2010	2010/4/21	20403043	
70	Telomere lengths, pulmonary fibrosis and telomerase (TERT) mutations	Diaz de Leon A	PLoS One. 2010 May 19;5(5):e10680.	2010	2010/5/27	20502709	*
71	Oxidative stress and inducible nitric oxide synthase induction in carcinogenesis	Farinati F	Dig Dis. 2010;28(4-5):579-84.	2010	2010/11/20	21088405	
72	The role of telomere biology in bone marrow failure and other disorders	Savage SA	Mech Ageing Dev. 2008 Jan-Feb;129(1-2):35-47.	2008	2007/12/28	18160098	
73	[Epidemiology, risk factors and molecular pathogenesis of primary liver cancer]	Hagymási K	Orv Hetil. 2008 Mar 23;149(12):541-8.	2008	2008/3/18	18343770	
74	Telomere shortening and inactivation of cell cycle checkpoints characterize human hepatocarcinogenesis	Plentz RR	Hepatology. 2007 Apr;45(4):968-76.	2007	2007/3/30	17393506	*
75	Telomerase deletion limits progression of p53-mutant hepatocellular carcinoma with short telomeres in chronic liver disease	Lechel A	Gastroenterology. 2007 Apr;132(4):1465-75.	2007	2007/4/17	17433324	*
76	Premature telomere shortening and impaired regenerative response in hepatocytes of individuals with NAFLD	Nakajima T	Liver Int. 2006 Feb;26(1):23-31.	2006	2006/1/20	16420506	*
77	Isolation of multipotent progenitor cells from human fetal liver capable of differentiating into liver and mesenchymal lineages	Dan YY	Proc Natl Acad Sci U S A. 2006 Jun 27;103(26):9912-7.	2006	2006/6/20	16782807	
78	Merging models of hepatitis C virus pathogenesis	Tillmann HL	Semin Liver Dis. 2005 Feb;25(1):84-92.	2005	2005/2/26	15732000	*
79	Age-related changes in liver structure and function: Implications for disease ?	Schmucker DL	Exp Gerontol. 2005 Aug-Sep;40(8-9):650-9.	2005	2005/8/17	16102930	
80	Prevention of critical telomere shortening by oestradiol in human normal hepatic cultured cells and carbon tetrachloride induced rat liver fibrosis	Sato R	Gut. 2004 Jul;53(7):1001-9.	2004	2004/6/15	15194652	
81	Differential impact of telomere dysfunction on initiation and progression of hepatocellular carcinoma	Farazi PA	Cancer Res. 2003 Aug 15;63(16):5021-7.	2003	2003/8/28	12941829	*
82	Telomere reduction in human liver tissues with age and chronic inflammation	Aikata H	Exp Cell Res. 2000 May 1;256(2):578-82.	2000	2000/4/25	10772830	
83	Telomere deficiency worsens liver disease	Gordon D	Gastroenterology. 2000 May;118(5):818.	2000	2000/6/8	10841641	*
84	[Clinical significance of telomerase activity in precancerous lesion of the liver (adenomatous hyperplasia)]	Nishimoto A	Nihon Rinsho. 1998 May;56(5):1244-7.	1998	1998/6/5	9613131	*

85	Telomerase activity and telomere length in hepatocellular carcinoma and chronic liver disease	Kojima H	Gastroenterology. 1997 Feb;112(2):493-500.	1997	1997/2/1	9024303	*
86	Progressive telomere shortening and telomerase reactivation during hepatocellular carcinogenesis	Miura N	Cancer Genet Cytogenet. 1997 Jan;93(1):56-62.	1997	1997/1/1	9062581	*
87	Telomere length in human liver diseases	Urabe Y	Liver. 1996 Oct;16(5):293-7.	1996	1996/10/1	8938628	
88	Telomere shortening in chronic liver diseases	Kitada T	Biochem Biophys Res Commun. 1995 Jun 6;211(1):33-9.	1995	1995/6/6	7779103	*

Telomere & Ulcerative Colitis

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Importance of telomere shortening in the pathogenesis of ulcerative colitis: A new treatment from the aspect of telomeres in intestinal epithelial cells	Watanabe S	J Crohns Colitis. 2021 Jun 28;jjab115.	2021	2021/6/28	34180971	
2	Telomere dysfunction instigates inflammation in inflammatory bowel disease	Chakravarti D	Proc Natl Acad Sci U S A. 2021 Jul 20;118(29):e2024853118.	2021	2021/7/13	34253611	
3	An RTEL1 Mutation Links to Infantile-Onset Ulcerative Colitis and Severe Immunodeficiency	Ziv A	J Clin Immunol. 2020 Oct;40(7):1010-1019.	2020	2020/7/26	32710398	
4	Telomere length in non-neoplastic colonic mucosa in ulcerative colitis (UC) and its relationship to the severe clinical phenotypes	Tahara T	Clin Exp Med. 2015 Aug;15(3):327-32.	2015	2014/6/14	24925640	
5	Telomere shortening correlates to dysplasia but not to DNA aneuploidy in longstanding ulcerative colitis	Friis-Ottessen M	BMC Gastroenterol. 2014 Jan 9;14:8.	2014	2014/1/11	24405569	
6	Clonal expansions and short telomeres are associated with neoplasia in early-onset, but not late-onset, ulcerative colitis	Salk JJ	Inflamm Bowel Dis. 2013 Nov;19(12):2593-602.	2013	2013/10/8	24097228	
7	Development of ulcerative colitis and its associated colorectal neoplasia as a model of the organ-specific chronic inflammation-carcinoma sequence	Okayasu I	Pathol Int. 2012 Jun;62(6):368-80.	2012	2012/5/23	22612505	
8	Epiphenomenon of telomere lengths: lessons from ulcerative colitis	Arasaradnam R	Gut. 2012 Oct;61(10):1516.	2012	2012/4/12	22490525	
9	Pathogenesis and biomarkers of carcinogenesis in ulcerative colitis	Thorsteinsdottir S	Nat Rev Gastroenterol Hepatol. 2011 Jun 7;8(7):395-404.	2011	2011/6/8	21647200	
10	Ulcerative colitis-associated colorectal cancer arises in a field of short telomeres, senescence, and inflammation	Risques RA	Cancer Res. 2011 Mar 1;71(5):1669-79.	2011	2011/3/3	21363920	
11	Altered mRNA expression of telomere binding proteins (TPP1, POT1, RAP1, TRF1 and TRF2) in ulcerative colitis and Crohn's disease	Da-Silva N	Dig Liver Dis. 2010 Aug;42(8):544-8.	2010	2010/1/12	20061197	
12	Ulcerative colitis is a disease of accelerated colon aging: evidence from telomere attrition and DNA damage	Risques RA	Gastroenterology. 2008 Aug;135(2):410-8.	2008	2008/6/4	18519043	

13	Genomic biomarkers to improve ulcerative colitis neoplasia surveillance	Bronner MP	Am J Pathol. 2008 Dec;173(6):1853-60.	2008	2008/11/8	18988798	
14	Extended lifespan and long telomeres in rectal fibroblasts from late-onset ulcerative colitis patients	Getliffe KM	Eur J Gastroenterol Hepatol. 2006 Feb;18(2):133-41.	2006	2006/1/6	16394794	
15	New pieces of the pathogenetic mosaic in inflammatory bowel disease	Vieth M	Eur J Gastroenterol Hepatol. 2006 Feb;18(2):123-4.	2006	2006/1/6	16394790	
16	Cancer surveillance in inflammatory bowel disease: new molecular approaches	Risques RA	Curr Opin Gastroenterol. 2006 Jul;22(4):382-90.	2006	2006/6/9	16760754	
17	Lymphocyte telomere dynamics and telomerase activity in inflammatory bowel disease: effect of drugs and smoking	Getliffe KM	Aliment Pharmacol Ther. 2005 Jan 15;21(2):121-31.	2005	2005/2/1	15679761	
18	Telomere length assessment in tissue sections by quantitative FISH: image analysis algorithms	O'Sullivan JN	Cytometry A. 2004 Apr;58(2):120-31.	2004	2004/4/2	15057965	
19	Chromosomal instability in ulcerative colitis is related to telomere shortening	O'Sullivan JN	Nat Genet. 2002 Oct;32(2):280-4.	2002	2002/10/2	12355086	
20	Telomere shortening in the colonic mucosa of patients with ulcerative colitis	Kinouchi Y	J Gastroenterol. 1998 Jun;33(3):343-8.	1998	1998/7/11	9658312	

Telomere & Gastroesophageal Reflux

No.	Title	First Author	Journal/Book/Page	Publication Year	Create Date	PMID	High Relevance
1	Significance of bronchiolocentric fibrosis in patients with histopathological usual interstitial pneumonia	Tanizawa K	Histopathology. 2019 Jun;74(7):1088-1097.	2019	2019/2/12	30742318	
2	Proton Pump Inhibitors Accelerate Endothelial Senescence	Yepuri G	Circ Res. 2016 Jun 10;118(12):e36-42.	2016	2016/5/12	27166251	
3	Leukocyte telomere length in relation to the risk of Barrett's esophagus and esophageal adenocarcinoma	Wennerström EC	Cancer Med. 2016 Sep;5(9):2657-65.	2016	2016/7/8	27384379	
4	Oxidative DNA damage in Barrett mucosa: correlation with telomeric dysfunction and p53 mutation	Cardin R	Ann Surg Oncol. 2013 Dec;20 Suppl 3:S583-9.	2013	2013/6/8	23744553	
5	Smoking-related interstitial fibrosis (SRIF), pathogenesis and treatment of usual interstitial pneumonia (UIP), and transbronchial biopsy in UIP	Katzenstein AL	Mod Pathol. 2012 Jan;25 Suppl 1:S68-78.	2012	2012/1/5	22214972	
6	GERD is associated with shortened telomeres in the squamous epithelium of the distal esophagus	Souza RF	Am J Physiol Gastrointest Liver Physiol. 2007 Jul;293(1):G19-24.	2007	2007/3/31	17395902	
7	Growth arrest, apoptosis, and telomere shortening of Barrett's-associated adenocarcinoma cells by a telomerase inhibitor	Shammas MA	Gastroenterology. 2004 May;126(5):1337-46.	2004	2004/5/8	15131795	