Abraham Aviv

List of Publications by Citations

124 papers	10,143 citations	55 h-index	100 g-index
130 ext. papers	12,549 ext. citations	8.1 avg, IF	6.33 L-index

#	Paper	IF	Citations
124	An epigenetic biomarker of aging for lifespan and healthspan. *Aging*, **2018**, 10, 573-591	5.6	658
123	DNA methylation GrimAge strongly predicts lifespan and healthspan. *Aging*, **2019**, 11, 303-327	5.6	424
122	Telomeres shorten at equivalent rates in somatic tissues of adults. *Nature Communications*, **2013**, 4, 1597	17.4	408
121	Telomere length in the newborn. *Pediatric Research*, **2002**, 52, 377-81	3.2	364
120	The transcriptional landscape of age in human peripheral blood. *Nature Communications*, **2015**, 6, 8570	17.4	335
119	Measurement of telomere length by the Southern blot analysis of terminal restriction fragment lengths. *Nature Protocols*, **2010**, 5, 1596-607	18.8	309
118	Telomere length inversely correlates with pulse pressure and is highly familial. *Hypertension*, **2000**, 36, 195-200	8.5	293
117	Telomere length and possible link to X chromosome. *Lancet, The*, **2004**, 363, 507-10	40	289
116	Impartial comparative analysis of measurement of leukocyte telomere length/DNA content by Southern blots and qPCR. *Nucleic Acids Research*, **2011**, 39, e134	20.1	263
115	Common variants near TERC are associated with mean telomere length. *Nature Genetics*, **2010**, 42, 197-9	36.3	255
114	Association Between Telomere Length and Risk of Cancer and Non-Neoplastic Diseases: A Mendelian Randomization Study. *JAMA Oncology*, **2017**, 3, 636-651	13.4	236
113	Leukocyte telomeres are longer in African Americans than in whites: the National Heart, Lung, and Blood Institute Family Heart Study and the Bogalusa Heart Study. *Aging Cell*, **2008**, 7, 451-8	9.9	235
112	Telomere length and mortality: a study of leukocytes in elderly Danish twins. *American Journal of Epidemiology*, **2008**, 167, 799-806	3.8	227
111	Leukocyte telomere dynamics: longitudinal findings among young adults in the Bogalusa Heart Study. *American Journal of Epidemiology*, **2009**, 169, 323-9	3.8	224
110	DNA methylation age is associated with mortality in a longitudinal Danish twin study. *Aging Cell*, **2016**, 15, 149-54	9.9	214
109	Genome-wide association identifies OBFC1 as a locus involved in human leukocyte telomere biology. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9293-8	11.5	209
108	Leukocyte telomere length and mortality in the Cardiovascular Health Study. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2011**, 66, 421-9	6.4	207

107	Offspring's leukocyte telomere length, paternal age, and telomere elongation in sperm. *PLoS Genetics*, **2008**, 4, e37	6	190
106	Epigenetic clock for skin and blood cells applied to Hutchinson Gilford Progeria Syndrome and studies. *Aging*, **2018**, 10, 1758-1775	5.6	187
105	Genome-wide meta-analysis points to CTC1 and ZNF676 as genes regulating telomere homeostasis in humans. *Human Molecular Genetics*, **2012**, 21, 5385-94	5.6	162
104	Human telomere biology: pitfalls of moving from the laboratory to epidemiology. *International Journal of Epidemiology*, **2006**, 35, 1424-9	7.8	150
103	Tracking and fixed ranking of leukocyte telomere length across the adult life course. *Aging Cell*, **2013**, 12, 615-21	9.9	146
102	Menopause modifies the association of leukocyte telomere length with insulin resistance and inflammation. *Journal of Clinical Endocrinology and Metabolism*, **2006**, 91, 635-40	5.6	138
101	Leukocyte Telomere Length in Newborns: Implications for the Role of Telomeres in Human Disease. *Pediatrics*, **2016**, 137,	7.4	137
100	The heritability of leucocyte telomere length dynamics. *Journal of Medical Genetics*, **2015**, 52, 297-302	5.8	120
99	Synchrony of telomere length among hematopoietic cells. *Experimental Hematology*, **2010**, 38, 854-9	3.1	117
98	Telomeres and human aging: facts and fibs. *Science of Aging Knowledge Environment: SAGE KE*, **2004**, 2004, pe43		117
97	GWAS of epigenetic aging rates in blood reveals a critical role for TERT. *Nature Communications*, **2018**, 9, 387	17.4	106
96	Telomere Length and Risk of Cancer and Non-neoplastic Diseases: Is Survivin the Ariadne's Thread?-Reply. *JAMA Oncology*, **2017**, 3, 1741-1742	13.4	105
95	Leukocyte telomere dynamics and human hematopoietic stem cell kinetics during somatic growth. *Experimental Hematology*, **2009**, 37, 514-24	3.1	100
94	Association of leukocyte telomere length with circulating biomarkers of the renin-angiotensin-aldosterone system: the Framingham Heart Study. *Circulation*, **2008**, 117, 1138-44	16.7	99
93	The epidemiology of human telomeres: faults and promises. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2008**, 63, 979-83	6.4	99
92	Telomeres, sex, reactive oxygen species, and human cardiovascular aging. *Journal of Molecular Medicine*, **2002**, 80, 689-95	5.5	99
91	Nevus size and number are associated with telomere length and represent potential markers of a decreased senescence in vivo. *Cancer Epidemiology Biomarkers and Prevention*, **2007**, 16, 1499-502	4	97
90	Urinary potassium excretion and sodium sensitivity in blacks. *Hypertension*, **2004**, 43, 707-13	8.5	96

89	Reflections on telomere dynamics and ageing-related diseases in humans. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	95
88	Genetics of leukocyte telomere length and its role in atherosclerosis. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2012**, 730, 68-74	3.3	91
87	Determinants of telomere length across human tissues. *Science*, **2020**, 369,	33.3	90
86	Telomeres and human somatic fitness. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2006**, 61, 871-3	6.4	89
85	Do leukocyte telomere length dynamics depend on baseline telomere length? An analysis that corrects for ℞egression to the mean℞ *European Journal of Epidemiology*, **2013**, 28, 859-66	12.1	88
84	The telomere lengthening conundrum--artifact or biology?. *Nucleic Acids Research*, **2013**, 41, e131	20.1	87
83	Estimating telomere length from whole genome sequence data. *Nucleic Acids Research*, **2014**, 42, e75	20.1	85
82	Telomere dynamics in macaques and humans. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2007**, 62, 367-74	6.4	84
81	Divergence of sperm and leukocyte age-dependent telomere dynamics: implications for male-driven evolution of telomere length in humans. *Molecular Human Reproduction*, **2012**, 18, 517-22	4.4	70
80	DNA methylation-based estimator of telomere length. *Aging*, **2019**, 11, 5895-5923	5.6	69
79	Shorter telomere length in Europeans than in Africans due to polygenetic adaptation. *Human Molecular Genetics*, **2016**, 25, 2324-2330	5.6	67
78	Mutations, Cancer and the Telomere Length Paradox. *Trends in Cancer*, **2017**, 3, 253-258	12.5	66
77	A null mutation in protects against biological aging in humans. *Science Advances*, **2017**, 3, eaao1617	14.3	64
76	Comparison between southern blots and qPCR analysis of leukocyte telomere length in the health ABC study. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2014**, 69, 527-31	6.4	62
75	Leukocyte telomere length dynamics in women and men: menopause vs age effects. *International Journal of Epidemiology*, **2015**, 44, 1688-95	7.8	61
74	Energy intake and leukocyte telomere length in young adults. *American Journal of Clinical Nutrition*, **2012**, 95, 479-87	7	61
73	Chronology versus biology: telomeres, essential hypertension, and vascular aging. *Hypertension*, **2002**, 40, 229-32	8.5	61
72	Commentary: The reliability of telomere length measurements. *International Journal of Epidemiology*, **2015**, 44, 1683-6	7.8	60

71	A short leucocyte telomere length is associated with development of insulin resistance. *Diabetologia*, **2016**, 59, 1258-65	10.3	59
70	Telomere Length and the Cancer-Atherosclerosis Trade-Off. *PLoS Genetics*, **2016**, 12, e1006144	6	56
69	Leukocyte telomere length and the fatherÂ's age enigma: implications for population health and for life course. *International Journal of Epidemiology*, **2013**, 42, 457-62	7.8	54
68	Telomeres and the natural lifespan limit in humans. *Aging*, **2017**, 9, 1130-1142	5.6	53
67	Growth, telomere dynamics and successful and unsuccessful human aging. *Mechanisms of Ageing and Development*, **2003**, 124, 829-37	5.6	50
66	Stromal cell-derived factor 1 as a biomarker of heart failure and mortality risk. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2100-5	9.4	49
65	DCAF4, a novel gene associated with leucocyte telomere length. *Journal of Medical Genetics*, **2015**, 52, 157-62	5.8	48
64	Telomeres, atherosclerosis, and human longevity: a causal hypothesis. *Epidemiology*, **2015**, 26, 295-9	3.1	46
63	Leukocyte Telomere Length and Risks of Incident Coronary Heart Disease and Mortality in a Racially Diverse Population of Postmenopausal Women. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 2225-31	9.4	45
62	Sodium glomerulopathy: tubuloglomerular feedback and renal injury in African Americans. *Kidney International*, **2004**, 65, 361-8	9.9	45
61	Short Leukocyte Telomere Length Precedes Clinical Expression of Atherosclerosis: The Blood-and-Muscle Model. *Circulation Research*, **2018**, 122, 616-623	15.7	44
60	Short Telomeres, but Not Telomere Attrition Rates, Are Associated With Carotid Atherosclerosis. *Hypertension*, **2017**, 70, 420-425	8.5	43
59	Telomere Length in the Newborn		41
58	Telomeres and COVID-19. *FASEB Journal*, **2020**, 34, 7247-7252	0.9	39
57	Telomere length dynamics in early life: the blood-and-muscle model. *FASEB Journal*, **2018**, 32, 529-534	0.9	35
56	Paternal age and telomere length in twins: the germ stem cell selection paradigm. *Aging Cell*, **2015**, 14, 701-3	9.9	33
55	A model of canine leukocyte telomere dynamics. *Aging Cell*, **2011**, 10, 991-5	9.9	33
54	Leukocyte telomere length and coronary artery calcium. *American Journal of Cardiology*, **2015**, 116, 214-8	3	32

53	Telomeres, atherosclerosis, and the hemothelium: the longer view. *Annual Review of Medicine*, **2012**, 63, 293-301	17.4	29
52	Leukocyte telomere length, T cell composition and DNA methylation age. *Aging*, **2017**, 9, 1983-1995	5.6	29
51	Sex difference in leukocyte telomere length is ablated in opposite-sex co-twins. *International Journal of Epidemiology*, **2014**, 43, 1799-805	7.8	28
50	Leukocyte telomere length and coronary artery calcification in Palestinians. *Atherosclerosis*, **2013**, 229, 363-8	3.1	26
49	Association of Leukocyte Telomere Length With Mortality Among Adult Participants in 3 Longitudinal Studies. *JAMA Network Open*, **2020**, 3, e200023	10.4	24
48	Response to: Reliability and validity of telomere length measurements. *International Journal of Epidemiology*, **2016**, 45, 1298-1301	7.8	23
47	Leukocyte telomere dynamics in the elderly. *European Journal of Epidemiology*, **2013**, 28, 181-7	12.1	23
46	Correlation of Leukocyte Telomere Length Measurement Methods in Patients with Dyskeratosis Congenita and in Their Unaffected Relatives. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	23
45	Insulin-like growth factors and leukocyte telomere length: the cardiovascular health study. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2009**, 64, 1103-6	6.4	22
44	Increased attrition of leukocyte telomere length in young adults is associated with poorer cognitive function in midlife. *European Journal of Epidemiology*, **2016**, 31, 147-57	12.1	21
43	Salt consumption, reactive oxygen species and cardiovascular ageing: a hypothetical link. *Journal of Hypertension*, **2002**, 20, 555-9	1.9	21
42	Telomere length tracking in children and their parents: implications for adult onset diseases. *FASEB Journal*, **2019**, 33, 14248-14253	0.9	20
41	Leukocyte telomere length and cardiovascular disease in African Americans: The Jackson Heart Study. *Atherosclerosis*, **2017**, 266, 41-47	3.1	19
40	Commentary: Raising the bar on telomere epidemiology. *International Journal of Epidemiology*, **2009**, 38, 1735-6	7.8	19
39	Differences of Ca2+ regulation in skin fibroblasts from blacks and whites. *Journal of Cellular Physiology*, **1989**, 138, 367-74	7	17
38	Smoking does not accelerate leucocyte telomere attrition: a meta-analysis of 18 longitudinal cohorts. *Royal Society Open Science*, **2019**, 6, 190420	3.3	16
37	Height and bone mineral density are associated with naevus count supporting the importance of growth in melanoma susceptibility. *PLoS ONE*, **2015**, 10, e0116863	3.7	16
36	How long should telomeres be?. *Current Hypertension Reports*, **2001**, 3, 145-51	4.7	15

35	Calcium mobilization and Na+/H+ antiport activation by endothelin in human skin fibroblasts. *FEBS Letters*, **1989**, 256, 38-42	3.8	15
34	Hemothelium, Clonal Hematopoiesis of Indeterminate Potential, and Atherosclerosis. *Circulation*, **2019**, 139, 7-9	16.7	13
33	Ancestry, Telomere Length, and Atherosclerosis Risk. *Circulation: Cardiovascular Genetics*, **2017**, 10,		11
32	Telomere length measurement by a novel Luminex-based assay: a blinded comparison to Southern blot. *International Journal of Molecular Epidemiology and Genetics*, **2016**, 7, 18-23	0.9	10
31	The mitochondrial genome, paternal age and telomere length in humans. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	9
30	Leukocyte telomere length is inversely correlated with plasma Von Willebrand factor. *Thrombosis Research*, **2010**, 125, e339-42	8.2	8
29	Measurement of Telomere Length for Longitudinal Analysis: Implications of Assay Precision. *American Journal of Epidemiology*, **2021**, 190, 1406-1413	3.8	8
28	Cellular calcium and sodium regulation, salt-sensitivity and essential hypertension in African Americans. *Ethnicity and Health*, **1996**, 1, 275-81	2.2	7
27	Shortened leukocyte telomere length is associated with reduced pulmonary function and greater subsequent decline in function in a sample of World Trade Center responders. *Scientific Reports*, **2019**, 9, 8148	4.9	6
26	Non-Dynamic Association of Depressive and Anxiety Disorders With Leukocyte Telomere Length?. *American Journal of Psychiatry*, **2016**, 173, 1147	11.9	6
25	Environmental Exposures, Telomere Length at Birth, and Disease Susceptibility in Later Life. *JAMA Pediatrics*, **2017**, 171, 1143-1144	8.3	5
24	Association of leukocyte telomere length with fatigue in nondisabled older adults. *Journal of Aging Research*, **2014**, 2014, 403253	2.3	5
23	The Nexus Between Telomere Length and Lymphocyte Count in Seniors Hospitalized With COVID-19. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2021**, 76, e97-e101	6.4	5
22	Rapid shortening of leukocyte telomeres is associated with poorer pulmonary function among healthy adults. *Respiratory Medicine*, **2018**, 145, 73-79	4.6	5
21	Acne and Telomere Length: A New Spectrum between Senescence and Apoptosis Pathways. *Journal of Investigative Dermatology*, **2017**, 137, 513-515	4.3	4
20	Cardiovascular Diseases, Aging and the Gender Gap in the Human Longevity. *Journal of the American Society of Hypertension*, **2007**, 1, 185-188		4
19	Characterization of Na(+)-K+ homeostasis of cultured human skin fibroblasts in the presence and absence of fetal bovine serum. *Journal of Cellular Physiology*, **1992**, 151, 427-32	7	4
18	Epigenome-wide association study of leukocyte telomere length. *Aging*, **2019**, 11, 5876-5894	5.6	4

17	The age pattern of the male-to-female ratio in mortality from COVID-19 mirrors that of cardiovascular disease in the general population. *Aging*, **2021**, 13, 3190-3201	5.6	4
16	Short telomeres and severe COVID-19: The connection conundrum. *EBioMedicine*, **2021**, 70, 103513	8.8	4
15	Response by Benetos et al to Letter Regarding Article, "Short Leukocyte Telomere Length Precedes Clinical Expression of Atherosclerosis: The Blood-and-Muscle Model". *Circulation Research* , **2018**, 122, e73-e74	15.7	3
14	Sodium 22+ washout from cultured rat cells. *Journal of Cellular Physiology*, **1986**, 129, 1-10	7	3
13	A Mechanism for Severity of Disease in Older Patients with COVID-19: The Nexus between Telomere Length and Lymphopenia **2020**,		3
12	Genetics and geography of leukocyte telomere length in sub-Saharan Africans. *Human Molecular Genetics*, **2020**, 29, 3014-3020	5.6	3
11	Telomeres and replicative cellular aging of the human placenta and chorioamniotic membranes. *Scientific Reports*, **2021**, 11, 5115	4.9	2
10	Telomeres: the time factor in essential hypertension. *Current Hypertension Reports*, **2001**, 3, 33-5	4.7	1
9	Genetic determinants of telomere length from 109,122 ancestrally diverse whole-genome sequences in TOPMed.. *Cell Genomics*, **2022**, 2, 100084-100084		1
8	Clonal Hematopoiesis Confers Predisposition to Both Cardiovascular Disease and Cancer. *Annals of Internal Medicine*, **2019**, 170, 356	8	1
7	Novel genetic determinants of telomere length from a trans-ethnic analysis of 109,122 whole genome sequences in TOPMed		1
6	Telomere Dynamics and Telomerase in the Biology of Hair Follicles and their Stem Cells as a Model for Aging Research. *Journal of Investigative Dermatology*, **2021**, 141, 1031-1040	4.3	1
5	Telomere-length dependent T-cell clonal expansion: A model linking ageing to COVID-19 T-cell lymphopenia and mortality.. *EBioMedicine*, **2022**, 78, 103978	8.8	1
4	Lack of difference in oxalate-dependent Ca2+ uptake by membrane homogenate of African-American and white subjects. *American Journal of Hypertension*, **1997**, 10, 434-9	2.3	
3	The relationship between Ca2+-ATPase and freely exchangeable Ca2+ in the dense tubules: a study in platelets from women. *American Journal of Hypertension*, **1999**, 12, 120-7	2.3	
2	The effect of melittin on Na+ and Rb+ transport in cultured skin fibroblasts of the spontaneously hypertensive rat. *Clinical and Experimental Hypertension*, **1985**, 7, 1283-99		
1	The telomere tumult: meaning and metrics in population studies. *The Lancet Healthy Longevity*, **2022**, 3, e308-e309	9.5	