

# Abraham Aviv

## List of Publications by Year in descending order

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124  
papers

14,602  
citations

22153

59  
h-index

21540

114  
g-index

130  
all docs

130  
docs citations

130  
times ranked

13510  
citing authors

#	ARTICLE	IF	CITATIONS
1	An epigenetic biomarker of aging for lifespan and healthspan. <i>Aging</i> , 2018, 10, 573-591.	3.1	1,552
2	DNA methylation GrimAge strongly predicts lifespan and healthspan. <i>Aging</i> , 2019, 11, 303-327.	3.1	1,128
3	The transcriptional landscape of age in human peripheral blood. <i>Nature Communications</i> , 2015, 6, 8570.	12.8	533
4	Telomeres shorten at equivalent rates in somatic tissues of adults. <i>Nature Communications</i> , 2013, 4, 1597.	12.8	502
5	Telomere Length in the Newborn. <i>Pediatric Research</i> , 2002, 52, 377-381.	2.3	426
6	Epigenetic clock for skin and blood cells applied to Hutchinson Gilford Progeria Syndrome and ex vivo studies. <i>Aging</i> , 2018, 10, 1758-1775.	3.1	406
7	Measurement of telomere length by the Southern blot analysis of terminal restriction fragment lengths. <i>Nature Protocols</i> , 2010, 5, 1596-1607.	12.0	378
8	Association Between Telomere Length and Risk of Cancer and Non-Neoplastic Diseases. <i>JAMA Oncology</i> , 2017, 3, 636.	7.1	376
9	Telomere length and possible link to X chromosome. <i>Lancet, The</i> , 2004, 363, 507-510.	13.7	341
10	Telomere Length Inversely Correlates With Pulse Pressure and Is Highly Familial. <i>Hypertension</i> , 2000, 36, 195-200.	2.7	327
11	Impartial comparative analysis of measurement of leukocyte telomere length/DNA content by Southern blots and qPCR. <i>Nucleic Acids Research</i> , 2011, 39, e134-e134.	14.5	300
12	Common variants near TERC are associated with mean telomere length. <i>Nature Genetics</i> , 2010, 42, 197-199.	21.4	296
13	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. <i>Aging Cell</i> , 2008, 7, 451-458.	6.7	263
14	<sc>DNA</sc> methylation age is associated with mortality in a longitudinal Danish twin study. <i>Aging Cell</i> , 2016, 15, 149-154.	6.7	260
15	Determinants of telomere length across human tissues. <i>Science</i> , 2020, 369, .	12.6	257
16	Telomere Length and Mortality: A Study of Leukocytes in Elderly Danish Twins. <i>American Journal of Epidemiology</i> , 2008, 167, 799-806.	3.4	250
17	Leukocyte Telomere Dynamics: Longitudinal Findings Among Young Adults in the Bogalusa Heart Study. <i>American Journal of Epidemiology</i> , 2008, 169, 323-329.	3.4	248
18	Genome-wide association identifies <i>OBFC1</i> as a locus involved in human leukocyte telomere biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9293-9298.	7.1	244

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19	Leukocyte Telomere Length and Mortality in the Cardiovascular Health Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 421-429.	3.6	235
20	Offspring's Leukocyte Telomere Length, Paternal Age, and Telomere Elongation in Sperm. <i>PLoS Genetics</i> , 2008, 4, e37.	3.5	224
21	Genome-wide meta-analysis points to CTC1 and ZNF676 as genes regulating telomere homeostasis in humans. <i>Human Molecular Genetics</i> , 2012, 21, 5385-5394.	2.9	210
22	DNA methylation-based estimator of telomere length. <i>Aging</i> , 2019, 11, 5895-5923.	3.1	198
23	Tracking and fixed ranking of leukocyte telomere length across the adult life course. <i>Aging Cell</i> , 2013, 12, 615-621.	6.7	197
24	Leukocyte Telomere Length in Newborns: Implications for the Role of Telomeres in Human Disease. <i>Pediatrics</i> , 2016, 137, .	2.1	182
25	Human telomere biology: pitfalls of moving from the laboratory to epidemiology. <i>International Journal of Epidemiology</i> , 2006, 35, 1424-1429.	1.9	161
26	Menopause Modifies the Association of Leukocyte Telomere Length with Insulin Resistance and Inflammation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 635-640.	3.6	158
27	The heritability of leucocyte telomere length dynamics. <i>Journal of Medical Genetics</i> , 2015, 52, 297-302.	3.2	152
28	Estimating telomere length from whole genome sequence data. <i>Nucleic Acids Research</i> , 2014, 42, e75-e75.	14.5	151
29	CWAS of epigenetic aging rates in blood reveals a critical role for TERT. <i>Nature Communications</i> , 2018, 9, 387.	12.8	151
30	Telomere Length and Risk of Cancer and Non-neoplastic Diseases: Is Survivin the Ariadne's Thread?â€”Reply. <i>JAMA Oncology</i> , 2017, 3, 1741.	7.1	150
31	Telomeres and Human Aging: Facts and Fibs. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, pe43.	0.8	150
32	Synchrony of telomere length among hematopoietic cells. <i>Experimental Hematology</i> , 2010, 38, 854-859.	0.4	131
33	Reflections on telomere dynamics and ageing-related diseases in humans. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160436.	4.0	131
34	Genetics of leukocyte telomere length and its role in atherosclerosis. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 730, 68-74.	1.0	122
35	Telomeres, sex, reactive oxygen species, and human cardiovascular aging. <i>Journal of Molecular Medicine</i> , 2002, 80, 689-695.	3.9	118
36	Nevus Size and Number Are Associated with Telomere Length and Represent Potential Markers of a Decreased Senescence <i>in vivo</i> . <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2007, 16, 1499-1502.	2.5	115

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37	Urinary Potassium Excretion and Sodium Sensitivity in Blacks. <i>Hypertension</i> , 2004, 43, 707-713.	2.7	114
38	Leukocyte telomere dynamics and human hematopoietic stem cell kinetics during somatic growth. <i>Experimental Hematology</i> , 2009, 37, 514-524.	0.4	114
39	Do leukocyte telomere length dynamics depend on baseline telomere length? An analysis that corrects for "regression to the mean". <i>European Journal of Epidemiology</i> , 2013, 28, 859-866.	5.7	113
40	Association of Leukocyte Telomere Length With Circulating Biomarkers of the Renin-Angiotensin-Aldosterone System. <i>Circulation</i> , 2008, 117, 1138-1144.	1.6	111
41	The telomere lengthening conundrum—artifact or biology?. <i>Nucleic Acids Research</i> , 2013, 41, e131-e131.	14.5	111
42	The Epidemiology of Human Telomeres: Faults and Promises. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2008, 63, 979-983.	3.6	107
43	Mutations, Cancer and the Telomere Length Paradox. <i>Trends in Cancer</i> , 2017, 3, 253-258.	7.4	101
44	Telomeres and Human Somatic Fitness. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 871-873.	3.6	97
45	A null mutation in <i>SERPINE1</i> protects against biological aging in humans. <i>Science Advances</i> , 2017, 3, eaao1617.	10.3	95
46	Divergence of sperm and leukocyte age-dependent telomere dynamics: implications for male-driven evolution of telomere length in humans. <i>Molecular Human Reproduction</i> , 2012, 18, 517-522.	2.8	90
47	Telomere Dynamics in Macaques and Humans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 367-374.	3.6	87
48	Leukocyte telomere length dynamics in women and men: menopause vs age effects. <i>International Journal of Epidemiology</i> , 2015, 44, 1688-1695.	1.9	87
49	Shorter telomere length in Europeans than in Africans due to polygenetic adaptation. <i>Human Molecular Genetics</i> , 2016, 25, 2324-2330.	2.9	86
50	Telomeres and the natural lifespan limit in humans. <i>Aging</i> , 2017, 9, 1130-1142.	3.1	82
51	Energy intake and leukocyte telomere length in young adults. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 479-487.	4.7	77
52	A short leukocyte telomere length is associated with development of insulin resistance. <i>Diabetologia</i> , 2016, 59, 1258-1265.	6.3	77
53	Short Leukocyte Telomere Length Precedes Clinical Expression of Atherosclerosis. <i>Circulation Research</i> , 2018, 122, 616-623.	4.5	74
54	Chronology Versus Biology. <i>Hypertension</i> , 2002, 40, 229-232.	2.7	73

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55	Telomere Length and the Cancer–Atherosclerosis Trade-Off. <i>PLoS Genetics</i> , 2016, 12, e1006144.	3.5	72
56	Comparison Between Southern Blots and qPCR Analysis of Leukocyte Telomere Length in the Health ABC Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 527-531.	3.6	70
57	Commentary: The reliability of telomere length measurements. <i>International Journal of Epidemiology</i> , 2015, 44, 1683-1686.	1.9	70
58	Leukocyte Telomere Length and the Father's Age Enigma: Implications for Population Health and for Life Course. <i>International Journal of Epidemiology</i> , 2013, 42, 457-462.	1.9	66
59	<i>DCAF4</i> , a novel gene associated with leucocyte telomere length. <i>Journal of Medical Genetics</i> , 2015, 52, 157-162.	3.2	66
60	Stromal Cell–Derived Factor 1 as a Biomarker of Heart Failure and Mortality Risk. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2100-2105.	2.4	65
61	Association of Leukocyte Telomere Length With Mortality Among Adult Participants in 3 Longitudinal Studies. <i>JAMA Network Open</i> , 2020, 3, e200023.	5.9	62
62	Telomere Length in the Newborn. <i>Pediatric Research</i> , 2002, 52, 377-381.	2.3	62
63	Telomeres and COVID–19. <i>FASEB Journal</i> , 2020, 34, 7247-7252.	0.5	59
64	Growth, telomere dynamics and successful and unsuccessful human aging. <i>Mechanisms of Ageing and Development</i> , 2003, 124, 829-837.	4.6	56
65	Sodium glomerulopathy: Tubuloglomerular feedback and renal injury in African Americans. <i>Kidney International</i> , 2004, 65, 361-368.	5.2	54
66	Telomeres, Atherosclerosis, and Human Longevity. <i>Epidemiology</i> , 2015, 26, 295-299.	2.7	54
67	Leukocyte Telomere Length and Risks of Incident Coronary Heart Disease and Mortality in a Racially Diverse Population of Postmenopausal Women. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2225-2231.	2.4	53
68	Short Telomeres, but Not Telomere Attrition Rates, Are Associated With Carotid Atherosclerosis. <i>Hypertension</i> , 2017, 70, 420-425.	2.7	53
69	Telomere length dynamics in early life: the blood–muscle model. <i>FASEB Journal</i> , 2018, 32, 529-534.	0.5	44
70	Correlation of Leukocyte Telomere Length Measurement Methods in Patients with Dyskeratosis Congenita and in Their Unaffected Relatives. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1765.	4.1	42
71	Telomere length tracking in children and their parents: implications for adult onset diseases. <i>FASEB Journal</i> , 2019, 33, 14248-14253.	0.5	42
72	Leukocyte telomere length, T cell composition and DNA methylation age. <i>Ageing</i> , 2017, 9, 1983-1995.	3.1	42

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73	Leukocyte Telomere Length and Coronary Artery Calcium. <i>American Journal of Cardiology</i> , 2015, 116, 214-218.	1.6	39
74	Paternal age and telomere length in twins: the germ stem cell selection paradigm. <i>Aging Cell</i> , 2015, 14, 701-703.	6.7	38
75	Telomeres, Atherosclerosis, and the Hemothelium: The Longer View. <i>Annual Review of Medicine</i> , 2012, 63, 293-301.	12.2	35
76	A model of canine leukocyte telomere dynamics. <i>Aging Cell</i> , 2011, 10, 991-995.	6.7	34
77	Smoking does not accelerate leukocyte telomere attrition: a meta-analysis of 18 longitudinal cohorts. <i>Royal Society Open Science</i> , 2019, 6, 190420.	2.4	33
78	Sex difference in leukocyte telomere length is ablated in opposite-sex co-twins. <i>International Journal of Epidemiology</i> , 2014, 43, 1799-1805.	1.9	31
79	Association Between Shortened Leukocyte Telomere Length and Cardio-Metabolic Outcomes. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 4-7.	5.1	31
80	Leukocyte telomere length and coronary artery calcification in Palestinians. <i>Atherosclerosis</i> , 2013, 229, 363-368.	0.8	30
81	Leukocyte telomere length and cardiovascular disease in African Americans: The Jackson Heart Study. <i>Atherosclerosis</i> , 2017, 266, 41-47.	0.8	30
82	Salt consumption, reactive oxygen species and cardiovascular ageing: a hypothetical link. <i>Journal of Hypertension</i> , 2002, 20, 555-559.	0.5	29
83	Genetic determinants of telomere length from 109,122 ancestrally diverse whole-genome sequences in TOPMed. <i>Cell Genomics</i> , 2022, 2, 100084.	6.5	29
84	Response to: Reliability and validity of telomere length measurements. <i>International Journal of Epidemiology</i> , 2016, 45, 1298-1301.	1.9	28
85	Increased attrition of leukocyte telomere length in young adults is associated with poorer cognitive function in midlife. <i>European Journal of Epidemiology</i> , 2016, 31, 147-157.	5.7	28
86	Measurement of Telomere Length for Longitudinal Analysis: Implications of Assay Precision. <i>American Journal of Epidemiology</i> , 2021, 190, 1406-1413.	3.4	28
87	Leukocyte telomere dynamics in the elderly. <i>European Journal of Epidemiology</i> , 2013, 28, 181-187.	5.7	27
88	The Nexus Between Telomere Length and Lymphocyte Count in Seniors Hospitalized With COVID-19. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, e97-e101.	3.6	25
89	Hemothelium, Clonal Hematopoiesis of Indeterminate Potential, and Atherosclerosis. <i>Circulation</i> , 2019, 139, 7-9.	1.6	24
90	Insulin-Like Growth Factors and Leukocyte Telomere Length: The Cardiovascular Health Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 1103-1106.	3.6	23

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91	Calcium mobilization and Na <sup>+</sup> /H <sup>+</sup> antiport activation by endothelin in human skin fibroblasts. FEBS Letters, 1989, 256, 38-42.	2.8	21
92	Differences of Ca <sup>2+</sup> regulation in skin fibroblasts from blacks and whites. Journal of Cellular Physiology, 1989, 138, 367-374.	4.1	20
93	Commentary: Raising the bar on telomere epidemiology. International Journal of Epidemiology, 2009, 38, 1735-1736.	1.9	19
94	Height and Bone Mineral Density Are Associated with Naevus Count Supporting the Importance of Growth in Melanoma Susceptibility. PLoS ONE, 2015, 10, e0116863.	2.5	19
95	Epigenome-wide association study of leukocyte telomere length. Aging, 2019, 11, 5876-5894.	3.1	19
96	Ancestry, Telomere Length, and Atherosclerosis Risk. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	17
97	How long should telomeres be?. Current Hypertension Reports, 2001, 3, 145-151.	3.5	16
98	Telomere-length dependent T-cell clonal expansion: A model linking ageing to COVID-19 T-cell lymphopenia and mortality. EBioMedicine, 2022, 78, 103978.	6.1	16
99	The mitochondrial genome, paternal age and telomere length in humans. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170210.	4.0	14
100	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.	0.7	13
101	Short telomeres and severe COVID-19: The connection conundrum. EBioMedicine, 2021, 70, 103513.	6.1	13
102	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.	0.4	12
103	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.	3.1	10
104	Environmental Exposures, Telomere Length at Birth, and Disease Susceptibility in Later Life. JAMA Pediatrics, 2017, 171, 1143.	6.2	9
105	Cellular calcium and sodium regulation, salt sensitivity and essential hypertension in African Americans. Ethnicity and Health, 1996, 1, 275-281.	2.5	8
106	Leukocyte telomere length is inversely correlated with plasma Von Willebrand factor. Thrombosis Research, 2010, 125, e339-e342.	1.7	8
107	Telomeres and replicative cellular aging of the human placenta and chorioamniotic membranes. Scientific Reports, 2021, 11, 5115.	3.3	8
108	Non-Dynamic Association of Depressive and Anxiety Disorders With Leukocyte Telomere Length?. American Journal of Psychiatry, 2016, 173, 1147-1147.	7.2	6

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109	Acne and Telomere Length: A New Spectrum between Senescence and Apoptosis Pathways. <i>Journal of Investigative Dermatology</i> , 2017, 137, 513-515.	0.7	6
110	Rapid shortening of leukocyte telomeres is associated with poorer pulmonary function among healthy adults. <i>Respiratory Medicine</i> , 2018, 145, 73-79.	2.9	6
111	Shortened leukocyte telomere length is associated with reduced pulmonary function and greater subsequent decline in function in a sample of World Trade Center responders. <i>Scientific Reports</i> , 2019, 9, 8148.	3.3	6
112	Cardiovascular diseases, aging, and the gender gap in human longevity. <i>Journal of the American Society of Hypertension</i> , 2007, 1, 185-188.	2.3	5
113	Association of Leukocyte Telomere Length with Fatigue in Nondisabled Older Adults. <i>Journal of Aging Research</i> , 2014, 2014, 1-8.	0.9	5
114	Genetics and geography of leukocyte telomere length in sub-Saharan Africans. <i>Human Molecular Genetics</i> , 2020, 29, 3014-3020.	2.9	5
115	Characterization of Na <sup>+</sup> -K <sup>+</sup> homeostasis of cultured human skin fibroblasts in the presence and absence of fetal bovine serum. <i>Journal of Cellular Physiology</i> , 1992, 151, 427-432.	4.1	4
116	Response by Benetos et al to Letter Regarding Article, "Short Leukocyte Telomere Length Precedes Clinical Expression of Atherosclerosis: The Blood-and-Muscle Model" <i>Circulation Research</i> , 2018, 122, e73-e74.	4.5	4
117	Sodium 22 <sup>+</sup> washout from cultured rat cells. <i>Journal of Cellular Physiology</i> , 1986, 129, 1-10.	4.1	3
118	Telomeres: The time factor in essential hypertension. <i>Current Hypertension Reports</i> , 2001, 3, 33-35.	3.5	3
119	Response to Letter Regarding Article, "Association of Leukocyte Telomere Length With Circulating Biomarkers of the Renin-Angiotensin-Aldosterone System: The Framingham Heart Study" <i>Circulation</i> , 2008, 118, .	1.6	1
120	Clonal Hematopoiesis Confers Predisposition to Both Cardiovascular Disease and Cancer. <i>Annals of Internal Medicine</i> , 2019, 170, 356.	3.9	1
121	The Effect of Melittin on Na <sup>+</sup> and Rb <sup>+</sup> Transport in Cultured Skin Fibroblasts of the Spontaneously Hypertensive Rat. <i>Clinical and Experimental Hypertension</i> , 1985, 7, 1283-1299.	0.3	0
122	Lack of Difference in Oxalate-Dependent Ca <sup>2+</sup> Uptake by Membrane Homogenate of African-American and White Subjects. <i>American Journal of Hypertension</i> , 1997, 10, 434-439.	2.0	0
123	The relationship between Ca <sup>2+</sup> -ATPase and freely exchangeable Ca <sup>2+</sup> in the dense tubules A study in platelets from women. <i>American Journal of Hypertension</i> , 1999, 12, 120-127.	2.0	0
124	The telomere tumult: meaning and metrics in population studies. <i>The Lancet Healthy Longevity</i> , 2022, 3, e308-e309.	4.6	0