

Maria A Blasco

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4412013/maria-a-blasco-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

282
papers

43,089
citations

98
h-index

205
g-index

294
ext. papers

49,138
ext. citations

12.6
avg, IF

7.7
L-index

#	Paper	IF	Citations
282	The hallmarks of aging. <i>Cell</i> , 2013 , 153, 1194-217	56.2	7165
281	Telomere shortening and tumor formation by mouse cells lacking telomerase RNA. <i>Cell</i> , 1997 , 91, 25-34	56.2	1779
280	Cellular senescence in cancer and aging. <i>Cell</i> , 2007 , 130, 223-33	56.2	1245
279	Telomeres and human disease: ageing, cancer and beyond. <i>Nature Reviews Genetics</i> , 2005 , 6, 611-22	30.1	1178
278	Longevity, stress response, and cancer in aging telomerase-deficient mice. <i>Cell</i> , 1999 , 96, 701-12	56.2	1144
277	Essential role of mouse telomerase in highly proliferative organs. <i>Nature</i> , 1998 , 392, 569-74	50.4	1062
276	Personal omics profiling reveals dynamic molecular and medical phenotypes. <i>Cell</i> , 2012 , 148, 1293-307	56.2	921
275	A p53-mediated DNA damage response limits reprogramming to ensure iPS cell genomic integrity. <i>Nature</i> , 2009 , 460, 1149-53	50.4	842
274	The Ink4/Arf locus is a barrier for iPS cell reprogramming. <i>Nature</i> , 2009 , 460, 1136-9	50.4	794
273	The common biology of cancer and ageing. <i>Nature</i> , 2007 , 448, 767-74	50.4	781
272	Developmentally regulated transcription of mammalian telomeres by DNA-dependent RNA polymerase II. <i>Nature Cell Biology</i> , 2008 , 10, 228-36	23.4	582
271	The epigenetic regulation of mammalian telomeres. <i>Nature Reviews Genetics</i> , 2007 , 8, 299-309	30.1	528
270	Telomere length, stem cells and aging. <i>Nature Chemical Biology</i> , 2007 , 3, 640-9	11.7	524
269	Isolation and in vitro expansion of human colonic stem cells. <i>Nature Medicine</i> , 2011 , 17, 1225-7	50.5	492
268	Secondary structure of vertebrate telomerase RNA. <i>Cell</i> , 2000 , 100, 503-14	56.2	486
267	DNA methyltransferases control telomere length and telomere recombination in mammalian cells. <i>Nature Cell Biology</i> , 2006 , 8, 416-24	23.4	471
266	Epigenetic regulation of telomere length in mammalian cells by the Suv39h1 and Suv39h2 histone methyltransferases. <i>Nature Genetics</i> , 2004 , 36, 94-9	36.3	445

265	"Super p53" mice exhibit enhanced DNA damage response, are tumor resistant and age normally. <i>EMBO Journal</i> , 2002 , 21, 6225-35	13	431
264	Delayed ageing through damage protection by the Arf/p53 pathway. <i>Nature</i> , 2007 , 448, 375-9	50.4	395
263	Hepatocyte telomere shortening and senescence are general markers of human liver cirrhosis. <i>FASEB Journal</i> , 2002 , 16, 935-42	0.9	385
262	Telomeres acquire embryonic stem cell characteristics in induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2009 , 4, 141-54	18	384
261	Telomeric and extra-telomeric roles for telomerase and the telomere-binding proteins. <i>Nature Reviews Cancer</i> , 2011 , 11, 161-76	31.3	366
260	Disease states associated with telomerase deficiency appear earlier in mice with short telomeres. <i>EMBO Journal</i> , 1999 , 18, 2950-60	13	357
259	Effects of telomerase and telomere length on epidermal stem cell behavior. <i>Science</i> , 2005 , 309, 1253-6	33.3	353
258	Telomerase reverse transcriptase delays aging in cancer-resistant mice. <i>Cell</i> , 2008 , 135, 609-22	56.2	339
257	A subpopulation of adult skeletal muscle stem cells retains all template DNA strands after cell division. <i>Cell</i> , 2012 , 148, 112-25	56.2	327
256	Tissue damage and senescence provide critical signals for cellular reprogramming in vivo. <i>Science</i> , 2016 , 354,	33.3	321
255	Functional characterization and developmental regulation of mouse telomerase RNA. <i>Science</i> , 1995 , 269, 1267-70	33.3	318
254	Telomerase-deficient mice with short telomeres are resistant to skin tumorigenesis. <i>Nature Genetics</i> , 2000 , 26, 114-7	36.3	288
253	Telomere length dynamics and chromosomal instability in cells derived from telomerase null mice. <i>Journal of Cell Biology</i> , 1999 , 144, 589-601	7.3	283
252	A mammalian microRNA cluster controls DNA methylation and telomere recombination via Rbl2-dependent regulation of DNA methyltransferases. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 268-79	17.6	281
251	Telomere length regulates the epigenetic status of mammalian telomeres and subtelomeres. <i>Nature Genetics</i> , 2007 , 39, 243-50	36.3	279
250	Role of the RB1 family in stabilizing histone methylation at constitutive heterochromatin. <i>Nature Cell Biology</i> , 2005 , 7, 420-8	23.4	279
249	Increased telomere fragility and fusions resulting from TRF1 deficiency lead to degenerative pathologies and increased cancer in mice. <i>Genes and Development</i> , 2009 , 23, 2060-75	12.6	275
248	Increased epidermal tumors and increased skin wound healing in transgenic mice overexpressing the catalytic subunit of telomerase, mTERT, in basal keratinocytes. <i>EMBO Journal</i> , 2001 , 20, 2619-30	13	275

247	Telomerase gene therapy in adult and old mice delays aging and increases longevity without increasing cancer. <i>EMBO Molecular Medicine</i> , 2012 , 4, 691-704	12	274
246	Telomere lengthening early in development. <i>Nature Cell Biology</i> , 2007 , 9, 1436-41	23.4	271
245	Mammalian Ku86 protein prevents telomeric fusions independently of the length of TTAGGG repeats and the G-strand overhang. <i>EMBO Reports</i> , 2000 , 1, 244-52	6.5	270
244	The longest telomeres: a general signature of adult stem cell compartments. <i>Genes and Development</i> , 2008 , 22, 654-67	12.6	261
243	Differential regulation of telomerase activity and telomerase RNA during multi-stage tumorigenesis. <i>Nature Genetics</i> , 1996 , 12, 200-4	36.3	252
242	High-throughput telomere length quantification by FISH and its application to human population studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5300-5	11.5	231
241	Restoration of telomerase activity rescues chromosomal instability and premature aging in <i>Terc</i> ^{-/-} mice with short telomeres. <i>EMBO Reports</i> , 2001 , 2, 800-7	6.5	225
240	A general structure for DNA-dependent DNA polymerases. <i>Gene</i> , 1991 , 100, 27-38	3.8	219
239	Ablation of telomerase and telomere loss leads to cardiac dilatation and heart failure associated with p53 upregulation. <i>EMBO Journal</i> , 2003 , 22, 131-9	13	214
238	Suv4-20h deficiency results in telomere elongation and derepression of telomere recombination. <i>Journal of Cell Biology</i> , 2007 , 178, 925-36	7.3	207
237	POT1 mutations cause telomere dysfunction in chronic lymphocytic leukemia. <i>Nature Genetics</i> , 2013 , 45, 526-30	36.3	199
236	Global chromatin compaction limits the strength of the DNA damage response. <i>Journal of Cell Biology</i> , 2007 , 178, 1101-8	7.3	197
235	The telomerase activator TA-65 elongates short telomeres and increases health span of adult/old mice without increasing cancer incidence. <i>Aging Cell</i> , 2011 , 10, 604-21	9.9	191
234	SIRT1 contributes to telomere maintenance and augments global homologous recombination. <i>Journal of Cell Biology</i> , 2010 , 191, 1299-313	7.3	190
233	Short telomeres result in organismal hypersensitivity to ionizing radiation in mammals. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1625-36	16.6	188
232	Telomere maintenance requires the RAD51D recombination/repair protein. <i>Cell</i> , 2004 , 117, 337-47	56.2	186
231	Mammalian Rap1 controls telomere function and gene expression through binding to telomeric and extratelomeric sites. <i>Nature Cell Biology</i> , 2010 , 12, 768-80	23.4	184
230	XPF nuclease-dependent telomere loss and increased DNA damage in mice overexpressing TRF2 result in premature aging and cancer. <i>Nature Genetics</i> , 2005 , 37, 1063-71	36.3	184

229	Telomere damage induced by the G-quadruplex ligand RHPS4 has an antitumor effect. <i>Journal of Clinical Investigation</i> , 2007 , 117, 3236-47	15.9	181
228	A G-quadruplex ligand with 10000-fold selectivity over duplex DNA. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1502-3	16.4	176
227	Expression of mouse telomerase catalytic subunit in embryos and adult tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 10471-6	11.5	174
226	Telomerase regulation and stem cell behaviour. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 254-60	9	171
225	The absence of the dna-dependent protein kinase catalytic subunit in mice results in anaphase bridges and in increased telomeric fusions with normal telomere length and G-strand overhang. <i>Molecular and Cellular Biology</i> , 2001 , 21, 3642-51	4.8	168
224	Mammalian Ku86 mediates chromosomal fusions and apoptosis caused by critically short telomeres. <i>EMBO Journal</i> , 2002 , 21, 2207-19	13	166
223	A higher order of telomere regulation: telomere heterochromatin and telomeric RNAs. <i>EMBO Journal</i> , 2009 , 28, 2323-36	13	163
222	Cancer and ageing: convergent and divergent mechanisms. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 715-22	48.7	156
221	Functional interaction between poly(ADP-Ribose) polymerase 2 (PARP-2) and TRF2: PARP activity negatively regulates TRF2. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1595-607	4.8	154
220	MARK-AGE biomarkers of ageing. <i>Mechanisms of Ageing and Development</i> , 2015 , 151, 2-12	5.6	145
219	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. <i>Journal of Cell Biology</i> , 2008 , 181, 27-35	7.3	145
218	Telomerase beyond telomeres. <i>Nature Reviews Cancer</i> , 2002 , 2, 627-33	31.3	142
217	Oxidative stress contributes to arsenic-induced telomere attrition, chromosome instability, and apoptosis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31998-2004	5.4	141
216	A GFR α 2/Prop1/stem (GPS) cell niche in the pituitary. <i>PLoS ONE</i> , 2009 , 4, e4815	3.7	140
215	Transformation of normal human cells in the absence of telomerase activation. <i>Cancer Cell</i> , 2002 , 2, 401-13	14.3	137
214	Telomere-driven diseases and telomere-targeting therapies. <i>Journal of Cell Biology</i> , 2017 , 216, 875-887	7.3	136
213	Identification of novel pathways involved in the pathogenesis of human adamantinomatous craniopharyngioma. <i>Acta Neuropathologica</i> , 2012 , 124, 259-71	14.3	133
212	Telomerase at the intersection of cancer and aging. <i>Trends in Genetics</i> , 2013 , 29, 513-20	8.5	132

211	Telomeres in cancer and ageing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 76-84	5.8	132
210	Telomere shortening rate predicts species life span. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15122-15127	11.5	130
209	Telomere shortening in neural stem cells disrupts neuronal differentiation and neuritogenesis. <i>Journal of Neuroscience</i> , 2009 , 29, 14394-407	6.6	129
208	Telomere shortening impairs organ regeneration by inhibiting cell cycle re-entry of a subpopulation of cells. <i>EMBO Journal</i> , 2003 , 22, 4003-13	13	127
207	Long-term repopulating ability of telomerase-deficient murine hematopoietic stem cells. <i>Blood</i> , 2002 , 99, 2767-75	2.2	127
206	Mice with Pulmonary Fibrosis Driven by Telomere Dysfunction. <i>Cell Reports</i> , 2015 , 12, 286-99	10.6	126
205	Assessing cell and organ senescence biomarkers. <i>Circulation Research</i> , 2012 , 111, 97-109	15.7	122
204	Irregular telomeres impair meiotic synapsis and recombination in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6496-501	11.5	122
203	Cohesin-SA1 deficiency drives aneuploidy and tumourigenesis in mice due to impaired replication of telomeres. <i>EMBO Journal</i> , 2012 , 31, 2076-89	13	121
202	BRCA2 acts as a RAD51 loader to facilitate telomere replication and capping. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 1461-9	17.6	119
201	An essential role for functional telomeres in mouse germ cells during fertilization and early development. <i>Developmental Biology</i> , 2002 , 249, 74-84	3.1	119
200	Telomere shortening and chromosomal instability abrogates proliferation of adult but not embryonic neural stem cells. <i>Development (Cambridge)</i> , 2004 , 131, 4059-70	6.6	118
199	Impaired germinal center reaction in mice with short telomeres. <i>EMBO Journal</i> , 2000 , 19, 472-81	13	118
198	Mice with bad ends: mouse models for the study of telomeres and telomerase in cancer and aging. <i>EMBO Journal</i> , 2005 , 24, 1095-103	13	113
197	Telomere shortening in mTR ^{-/-} embryos is associated with failure to close the neural tube. <i>EMBO Journal</i> , 1999 , 18, 1172-81	13	112
196	The rate of increase of short telomeres predicts longevity in mammals. <i>Cell Reports</i> , 2012 , 2, 732-7	10.6	111
195	Telomerase deficiency impairs differentiation of mesenchymal stem cells. <i>Experimental Cell Research</i> , 2004 , 294, 1-8	4.2	110
194	Evolving views of telomerase and cancer. <i>Trends in Cell Biology</i> , 2003 , 13, 289-94	18.3	106

193	Porphyryn derivatives for telomere binding and telomerase inhibition. <i>ChemBioChem</i> , 2005 , 6, 123-32	3.8	106
192	Centromere mitotic recombination in mammalian cells. <i>Journal of Cell Biology</i> , 2008 , 181, 885-92	7.3	105
191	Functional interaction between DNA-PKcs and telomerase in telomere length maintenance. <i>EMBO Journal</i> , 2002 , 21, 6275-87	13	105
190	Role of shelterin in cancer and aging. <i>Aging Cell</i> , 2010 , 9, 653-66	9.9	102
189	TPP1 is required for TERT recruitment, telomere elongation during nuclear reprogramming, and normal skin development in mice. <i>Developmental Cell</i> , 2010 , 18, 775-89	10.2	102
188	The role of telomeres and telomerase in stem cell aging. <i>FEBS Letters</i> , 2010 , 584, 3826-30	3.8	102
187	TERRA transcripts are bound by a complex array of RNA-binding proteins. <i>Nature Communications</i> , 2010 , 1, 33	17.4	101
186	Telomerase abrogation dramatically accelerates TRF2-induced epithelial carcinogenesis. <i>Genes and Development</i> , 2007 , 21, 206-20	12.6	101
185	Shorter telomeres, accelerated ageing and increased lymphoma in DNA-PKcs-deficient mice. <i>EMBO Reports</i> , 2004 , 5, 503-9	6.5	101
184	The load of short telomeres is increased and associated with lifetime number of depressive episodes in bipolar II disorder. <i>Journal of Affective Disorders</i> , 2011 , 135, 43-50	6.6	98
183	A role for the Rb family of proteins in controlling telomere length. <i>Nature Genetics</i> , 2002 , 32, 415-9	36.3	97
182	Epigenetic regulation of telomeres in human cancer. <i>Oncogene</i> , 2008 , 27, 6817-33	9.2	95
181	Role of Rb family in the epigenetic definition of chromatin. <i>Cell Cycle</i> , 2005 , 4, 752-5	4.7	95
180	Increased p53 activity does not accelerate telomere-driven ageing. <i>EMBO Reports</i> , 2006 , 7, 546-52	6.5	95
179	Replicating through telomeres: a means to an end. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 504-15	10.3	91
178	Telomerase expression confers cardioprotection in the adult mouse heart after acute myocardial infarction. <i>Nature Communications</i> , 2014 , 5, 5863	17.4	91
177	Telomere length predicts embryo fragmentation after in vitro fertilization in women--toward a telomere theory of reproductive aging in women. <i>American Journal of Obstetrics and Gynecology</i> , 2005 , 192, 1256-60; discussion 1260-1	6.4	91
176	Many ways to telomere dysfunction: in vivo studies using mouse models. <i>Oncogene</i> , 2002 , 21, 584-91	9.2	90

175	The RNA subunit of telomerase is encoded by Marek's disease virus. <i>Journal of Virology</i> , 2003 , 77, 5985-966		88
174	A mammalian microRNA cluster controls DNA methylation and telomere recombination via Rbl2-dependent regulation of DNA methyltransferases. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 998	17.6	87
173	A mutation in the POT1 gene is responsible for cardiac angiosarcoma in TP53-negative Li-Fraumeni-like families. <i>Nature Communications</i> , 2015 , 6, 8383	17.4	86
172	p53 isoforms regulate aging- and tumor-associated replicative senescence in T lymphocytes. <i>Journal of Clinical Investigation</i> , 2013 , 123, 5247-57	15.9	85
171	Mice deficient in telomerase activity develop hypertension because of an excess of endothelin production. <i>Circulation</i> , 2006 , 114, 309-17	16.7	83
170	Impact of telomerase ablation on organismal viability, aging, and tumorigenesis in mice lacking the DNA repair proteins PARP-1, Ku86, or DNA-PKcs. <i>Journal of Cell Biology</i> , 2004 , 167, 627-38	7.3	83
169	Constitutive expression of tert in thymocytes leads to increased incidence and dissemination of T-cell lymphoma in Lck-Tert mice. <i>Molecular and Cellular Biology</i> , 2004 , 24, 4275-93	4.8	82
168	Mammalian telomeres and telomerase: why they matter for cancer and aging. <i>European Journal of Cell Biology</i> , 2003 , 82, 441-6	6.1	80
167	Antagonistic effects of telomerase on cancer and aging in K5-mTert transgenic mice. <i>Oncogene</i> , 2005 , 24, 2256-70	9.2	80
166	Cooperation between p53 mutation and high telomerase transgenic expression in spontaneous cancer development. <i>Molecular and Cellular Biology</i> , 2002 , 22, 7291-301	4.8	80
165	F19. TELOMERE SHORTENING IN YOUNG PEOPLE WITH FIRST EPISODE PSYCHOSIS: A 12-MONTH FOLLOW-UP STUDY. <i>Schizophrenia Bulletin</i> , 2018 , 44, S226-S226	1.3	78
164	T24. CHANGES IN TELOMERE LENGTH IN YOUNG PEOPLE WITH FIRST EPISODE PSYCHOSIS: A 12-MONTHS FOLLOW-UP STUDY. <i>Schizophrenia Bulletin</i> , 2020 , 46, S240-S240	1.3	78
163	RAP1 protects from obesity through its extratelomeric role regulating gene expression. <i>Cell Reports</i> , 2013 , 3, 2059-74	10.6	77
162	Genome-wide CTCF distribution in vertebrates defines equivalent sites that aid the identification of disease-associated genes. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 708-14	17.6	77
161	Long-term molecular and cellular stability of human neural stem cell lines. <i>Experimental Cell Research</i> , 2004 , 294, 559-70	4.2	77
160	Normal telomere length and chromosomal end capping in poly(ADP-ribose) polymerase-deficient mice and primary cells despite increased chromosomal instability. <i>Journal of Cell Biology</i> , 2001 , 154, 49-60	7.3	77
159	Massive telomere loss is an early event of DNA damage-induced apoptosis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 836-42	5.4	76
158	Haploinsufficiency for BRCA1 leads to cell-type-specific genomic instability and premature senescence. <i>Nature Communications</i> , 2015 , 6, 7505	17.4	74

157	Beyond average: potential for measurement of short telomeres. <i>Aging</i> , 2012 , 4, 379-92	5.6	74
156	Spreading of mammalian DNA-damage response factors studied by CHIP-chip at damaged telomeres. <i>EMBO Journal</i> , 2007 , 26, 2707-18	13	73
155	Epigenetic silencing of Oct4 by a complex containing SUV39H1 and Oct4 pseudogene lncRNA. <i>Nature Communications</i> , 2015 , 6, 7631	17.4	72
154	Requirement of functional telomeres for metaphase chromosome alignments and integrity of meiotic spindles. <i>EMBO Reports</i> , 2002 , 3, 230-4	6.5	72
153	Role of mammalian Rad54 in telomere length maintenance. <i>Molecular and Cellular Biology</i> , 2003 , 23, 5572-80	4.8	70
152	TRF1 controls telomere length and mitotic fidelity in epithelial homeostasis. <i>Molecular and Cellular Biology</i> , 2009 , 29, 1608-25	4.8	68
151	Breaks at telomeres and TRF2-independent end fusions in Fanconi anemia. <i>Human Molecular Genetics</i> , 2002 , 11, 439-44	5.6	68
150	TERRA recruitment of polycomb to telomeres is essential for histone trimethylation marks at telomeric heterochromatin. <i>Nature Communications</i> , 2018 , 9, 1548	17.4	67
149	Identification of TERRA locus unveils a telomere protection role through association to nearly all chromosomes. <i>Nature Communications</i> , 2014 , 5, 4723	17.4	66
148	Chromatin regulation and non-coding RNAs at mammalian telomeres. <i>Seminars in Cell and Developmental Biology</i> , 2010 , 21, 186-93	7.5	66
147	Limiting replication stress during somatic cell reprogramming reduces genomic instability in induced pluripotent stem cells. <i>Nature Communications</i> , 2015 , 6, 8036	17.4	65
146	Telomeric RNAs are essential to maintain telomeres. <i>Nature Communications</i> , 2016 , 7, 12534	17.4	65
145	Telomerase reverse transcriptase synergizes with calorie restriction to increase health span and extend mouse longevity. <i>PLoS ONE</i> , 2013 , 8, e53760	3.7	65
144	Genetic inactivation of Cdk7 leads to cell cycle arrest and induces premature aging due to adult stem cell exhaustion. <i>EMBO Journal</i> , 2012 , 31, 2498-510	13	64
143	Short telomeres protect from diet-induced atherosclerosis in apolipoprotein E-null mice. <i>FASEB Journal</i> , 2004 , 18, 418-20	0.9	63
142	Mice with hyper-long telomeres show less metabolic aging and longer lifespans. <i>Nature Communications</i> , 2019 , 10, 4723	17.4	62
141	Localization-dependent and -independent roles of SLX4 in regulating telomeres. <i>Cell Reports</i> , 2013 , 4, 853-60	10.6	62
140	Decreased B16F10 melanoma growth and impaired vascularization in telomerase-deficient mice with critically short telomeres. <i>Cancer Research</i> , 2002 , 62, 552-9	10.1	60

139	Different telomere-length dynamics at the inner cell mass versus established embryonic stem (ES) cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15207-12	11.5	59
138	The telomerase RNA component Terc is required for the tumour-promoting effects of Tert overexpression. <i>EMBO Reports</i> , 2005 , 6, 268-74	6.5	59
137	Identification of functional domains and dominant negative mutations in vertebrate telomerase RNA using an in vivo reconstitution system. <i>Journal of Biological Chemistry</i> , 2001 , 276, 5856-65	5.4	57
136	A p53-dependent response limits epidermal stem cell functionality and organismal size in mice with short telomeres. <i>PLoS ONE</i> , 2009 , 4, e4934	3.7	57
135	Telomere shortening and oxidative stress in aged macrophages results in impaired STAT5a phosphorylation. <i>Journal of Immunology</i> , 2009 , 183, 2356-64	5.3	56
134	53BP1 Enforces Distinct Pre- and Post-resection Blocks on Homologous Recombination. <i>Molecular Cell</i> , 2020 , 77, 26-38.e7	17.6	56
133	Shortened telomeres join to DNA breaks interfering with their correct repair. <i>Experimental Cell Research</i> , 2003 , 287, 282-8	4.2	55
132	A metabolic signature predicts biological age in mice. <i>Aging Cell</i> , 2013 , 12, 93-101	9.9	54
131	SIRT1 is necessary for proficient telomere elongation and genomic stability of induced pluripotent stem cells. <i>Stem Cell Reports</i> , 2014 , 2, 690-706	8	53
130	Conditional TRF1 knockout in the hematopoietic compartment leads to bone marrow failure and recapitulates clinical features of dyskeratosis congenita. <i>Blood</i> , 2012 , 120, 2990-3000	2.2	53
129	Expression of mTert in primary murine cells links the growth-promoting effects of telomerase to transforming growth factor-beta signaling. <i>Oncogene</i> , 2006 , 25, 4310-9	9.2	53
128	Stem and progenitor cell division kinetics during postnatal mouse mammary gland development. <i>Nature Communications</i> , 2015 , 6, 8487	17.4	51
127	ATR suppresses telomere fragility and recombination but is dispensable for elongation of short telomeres by telomerase. <i>Journal of Cell Biology</i> , 2010 , 188, 639-52	7.3	51
126	Telomeres and telomerase in Alzheimer's disease: epiphenomena or a new focus for therapeutic strategy?. <i>Alzheimer's and Dementia</i> , 2006 , 2, 164-8	1.2	51
125	Telomeres and telomerase as therapeutic targets to prevent and treat age-related diseases. <i>F1000Research</i> , 2016 , 5,	3.6	51
124	Therapeutic effects of telomerase in mice with pulmonary fibrosis induced by damage to the lungs and short telomeres. <i>ELife</i> , 2018 , 7,	8.9	51
123	TRF1 is a stem cell marker and is essential for the generation of induced pluripotent stem cells. <i>Nature Communications</i> , 2013 , 4, 1946	17.4	50
122	Telomere rejuvenation during nuclear reprogramming. <i>Current Opinion in Genetics and Development</i> , 2010 , 20, 190-6	4.9	50

121	Role of the TRF2 telomeric protein in cancer and ageing. <i>Cell Cycle</i> , 2006 , 5, 718-21	4.7	49
120	Telomerase reverses epidermal hair follicle stem cell defects and loss of long-term survival associated with critically short telomeres. <i>Journal of Cell Biology</i> , 2007 , 179, 277-90	7.3	49
119	Telomeres and cancer: a tale with many endings. <i>Current Opinion in Genetics and Development</i> , 2003 , 13, 70-6	4.9	49
118	Therapeutic effect of androgen therapy in a mouse model of aplastic anemia produced by short telomeres. <i>Haematologica</i> , 2015 , 100, 1267-74	6.6	48
117	Novel roles for telomerase in aging. <i>Mechanisms of Ageing and Development</i> , 2006 , 127, 579-83	5.6	47
116	Role of human Ku86 in telomere length maintenance and telomere capping. <i>Cancer Research</i> , 2004 , 64, 7271-8	10.1	46
115	Porphyrin-aminoquinoline conjugates as telomerase inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 921-7	3.9	46
114	Short Telomere Load, Telomere Length, and Subclinical Atherosclerosis: The PESA Study. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 2467-76	15.1	44
113	Phi 29 DNA polymerase active site. Mutants in conserved residues Tyr254 and Tyr390 are affected in dNTP binding. <i>Journal of Biological Chemistry</i> , 1992 , 267, 19427-34	5.4	43
112	Phi 29 DNA polymerase active site. The conserved amino acid motif "Kx3NSxYG" is involved in template-primer binding and dNTP selection. <i>Journal of Biological Chemistry</i> , 1993 , 268, 16763-70	5.4	41
111	Genomic instability in iPS: time for a break. <i>EMBO Journal</i> , 2011 , 30, 991-3	13	40
110	Telomerase gene therapy rescues telomere length, bone marrow aplasia, and survival in mice with aplastic anemia. <i>Blood</i> , 2016 , 127, 1770-9	2.2	39
109	Role of TRF2 in the assembly of telomeric chromatin. <i>Cell Cycle</i> , 2008 , 7, 3461-8	4.7	39
108	Therapeutic inhibition of TRF1 impairs the growth of p53-deficient K-RasG12V-induced lung cancer by induction of telomeric DNA damage. <i>EMBO Molecular Medicine</i> , 2015 , 7, 930-49	12	38
107	Deficient mismatch repair improves organismal fitness and survival of mice with dysfunctional telomeres. <i>Genes and Development</i> , 2007 , 21, 2234-47	12.6	38
106	Primer terminus stabilization at the phi 29 DNA polymerase active site. Mutational analysis of conserved motif KXY. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2735-40	5.4	38
105	Shorter telomere length is associated with increased ovarian cancer risk in both familial and sporadic cases. <i>Journal of Medical Genetics</i> , 2012 , 49, 341-4	5.8	37
104	Critically short telomeres are associated with sperm DNA fragmentation. <i>Fertility and Sterility</i> , 2005 , 84, 843-5	4.8	37

103	The mouse telomerase RNA 5'-end lies just upstream of the telomerase template sequence. <i>Nucleic Acids Research</i> , 1998 , 26, 532-6	20.1	37
102	Generation of mice with longer and better preserved telomeres in the absence of genetic manipulations. <i>Nature Communications</i> , 2016 , 7, 11739	17.4	37
101	Inhibition of TRF1 Telomere Protein Impairs Tumor Initiation and Progression in Glioblastoma Mouse Models and Patient-Derived Xenografts. <i>Cancer Cell</i> , 2017 , 32, 590-607.e4	24.3	36
100	Identification of telomere-dependent "senescence-like" arrest in mouse embryonic fibroblasts. <i>Experimental Cell Research</i> , 2002 , 276, 242-8	4.2	36
99	p53 prevents entry into mitosis with uncapped telomeres. <i>Current Biology</i> , 2010 , 20, 521-6	6.3	35
98	Telomeric sequences, radiation sensitivity and genomic instability. <i>International Journal of Radiation Biology</i> , 2001 , 77, 995-1005	2.9	35
97	Modulation of telomere protection by the PI3K/AKT pathway. <i>Nature Communications</i> , 2017 , 8, 1278	17.4	34
96	NSMCE2 suppresses cancer and aging in mice independently of its SUMO ligase activity. <i>EMBO Journal</i> , 2015 , 34, 2604-19	13	34
95	Potential of telomerase activation in extending health span and longevity. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 739-43	9	34
94	Telomere shortening relaxes X chromosome inactivation and forces global transcriptome alterations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19393-8	11.5	34
93	Immunosenescence phenotypes in the telomerase knockout mouse. <i>Seminars in Immunopathology</i> , 2002 , 24, 75-85		34
92	Sox4 links tumor suppression to accelerated aging in mice by modulating stem cell activation. <i>Cell Reports</i> , 2014 , 8, 487-500	10.6	33
91	MSH2 deficiency abolishes the anticancer and pro-aging activity of short telomeres. <i>Aging Cell</i> , 2009 , 8, 2-17	9.9	33
90	Telomere length analysis. <i>Methods in Molecular Biology</i> , 2007 , 371, 45-72	1.4	33
89	Genetic analysis of myc and telomerase interactions in vivo. <i>Molecular and Cellular Biology</i> , 2006 , 26, 6130-8	4.8	33
88	Phi 29 DNA polymerase active site. Residue ASP249 of conserved amino acid motif "Dx2SLYP" is critical for synthetic activities. <i>Journal of Biological Chemistry</i> , 1993 , 268, 24106-13	5.4	33
87	Shorter telomere lengths in patients with severe COVID-19 disease. <i>Aging</i> , 2021 , 13, 1-15	5.6	33
86	Telomeres and telomerase in adult stem cells and pluripotent embryonic stem cells. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 695, 118-31	3.6	31

85	Carcinogenesis Young Investigator Award. Telomere epigenetics: a higher-order control of telomere length in mammalian cells. <i>Carcinogenesis</i> , 2004 , 25, 1083-7	4.6	31
84	Telomere-dependent senescence. <i>Nature Biotechnology</i> , 1999 , 17, 313-4	44.5	30
83	Role for telomerase in pulmonary hypertension. <i>Circulation</i> , 2015 , 131, 742-755	16.7	29
82	Postreplicative joining of DNA double-strand breaks causes genomic instability in DNA-PKcs-deficient mouse embryonic fibroblasts. <i>Cancer Research</i> , 2005 , 65, 10223-32	10.1	29
81	Impact papers on aging in 2009. <i>Aging</i> , 2010 , 2, 111-21	5.6	29
80	A genetic interaction between RAP1 and telomerase reveals an unanticipated role for RAP1 in telomere maintenance. <i>Aging Cell</i> , 2016 , 15, 1113-1125	9.9	29
79	TopoII β prevents telomere fragility and formation of ultra thin DNA bridges during mitosis through TRF1-dependent binding to telomeres. <i>Cell Cycle</i> , 2014 , 13, 1463-81	4.7	28
78	Telomeres in cancer and aging: lessons from the mouse. <i>Cancer Letters</i> , 2003 , 194, 183-8	9.9	28
77	Structural and functional analysis of temperature-sensitive mutants of the phage phi 29 DNA polymerase. <i>Nucleic Acids Research</i> , 1990 , 18, 4763-70	20.1	28
76	Telomerase deficiency promotes oxidative stress by reducing catalase activity. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1243-51	7.8	27
75	Site-directed mutagenesis at the Exo III motif of phi 29 DNA polymerase; overlapping structural domains for the 3'5' exonuclease and strand-displacement activities. <i>EMBO Journal</i> , 1992 , 11, 4227-37	13	27
74	Telomere dynamics in Fancg-deficient mouse and human cells. <i>Blood</i> , 2004 , 104, 3927-35	2.2	26
73	Telomere length and telomerase activity impact the UV sensitivity syndrome xeroderma pigmentosum C. <i>Cancer Research</i> , 2013 , 73, 1844-54	10.1	25
72	Mammalian meiotic telomeres: composition and ultrastructure in telomerase-deficient mice. <i>European Journal of Cell Biology</i> , 2002 , 81, 335-40	6.1	25
71	Common Telomere Changes during In Vivo Reprogramming and Early Stages of Tumorigenesis. <i>Stem Cell Reports</i> , 2017 , 8, 460-475	8	23
70	Characterization and mapping of the pyrophosphorolytic activity of the phage phi 29 DNA polymerase. Involvement of amino acid motifs highly conserved in alpha-like DNA polymerases. <i>Journal of Biological Chemistry</i> , 1991 , 266, 7904-9	5.4	23
69	Heart-Breaking Telomeres. <i>Circulation Research</i> , 2018 , 123, 787-802	15.7	23
68	The mTOR pathway is necessary for survival of mice with short telomeres. <i>Nature Communications</i> , 2020 , 11, 1168	17.4	22

67	Short telomeres are frequent in hereditary breast tumors and are associated with high tumor grade. <i>Breast Cancer Research and Treatment</i> , 2013 , 141, 231-42	4.4	22
66	Impact of chemotherapy on telomere length in sporadic and familial breast cancer patients. <i>Breast Cancer Research and Treatment</i> , 2015 , 149, 385-94	4.4	22
65	2009 nobel prize in physiology or medicine: telomeres and telomerase. <i>Oncogene</i> , 2010 , 29, 1561-5	9.2	22
64	TERRA regulate the transcriptional landscape of pluripotent cells through TRF1-dependent recruitment of PRC2. <i>ELife</i> , 2019 , 8,	8.9	21
63	ATRX driver mutation in a composite malignant pheochromocytoma. <i>Cancer Genetics</i> , 2016 , 209, 272-7	2.3	21
62	Suv4-20h abrogation enhances telomere elongation during reprogramming and confers a higher tumorigenic potential to iPS cells. <i>PLoS ONE</i> , 2011 , 6, e25680	3.7	20
61	53BP1 deficiency combined with telomere dysfunction activates ATR-dependent DNA damage response. <i>Journal of Cell Biology</i> , 2012 , 197, 283-300	7.3	19
60	Walnut Consumption for Two Years and Leukocyte Telomere Attrition in Mediterranean Elders: Results of a Randomized Controlled Trial. <i>Nutrients</i> , 2018 , 10,	6.7	18
59	Telomere shortening in enterocytes of patients with uncontrolled acute intestinal graft-versus-host disease. <i>Blood</i> , 2015 , 126, 2518-21	2.2	17
58	Essential role for the TRF2 telomere protein in adult skin homeostasis. <i>Aging Cell</i> , 2014 , 13, 656-68	9.9	17
57	Genetic dissection of the mechanisms underlying telomere-associated diseases: impact of the TRF2 telomeric protein on mouse epidermal stem cells. <i>DMM Disease Models and Mechanisms</i> , 2009 , 2, 139-56 ^{4.1}		17
56	Telomerase treatment prevents lung profibrotic pathologies associated with physiological aging. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	17
55	Hsa-miR-139-5p is a prognostic thyroid cancer marker involved in HNRNPF-mediated alternative splicing. <i>International Journal of Cancer</i> , 2020 , 146, 521-530	7.5	17
54	Gene therapy with the TRF1 telomere gene rescues decreased TRF1 levels with aging and prolongs mouse health span. <i>Aging Cell</i> , 2017 , 16, 1353-1368	9.9	16
53	Single-cell telomere-length quantification couples telomere length to meristem activity and stem cell development in Arabidopsis. <i>Cell Reports</i> , 2015 , 11, 977-989	10.6	16
52	Telomere Length Defines the Cardiomyocyte Differentiation Potency of Mouse Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2017 , 35, 362-373	5.8	15
51	Multiple cancer pathways regulate telomere protection. <i>EMBO Molecular Medicine</i> , 2019 , 11, e10292	12	14
50	Splicing machinery dysregulation drives glioblastoma development/aggressiveness: oncogenic role of SRSF3. <i>Brain</i> , 2020 , 143, 3273-3293	11.2	14

49	Aging by telomere loss can be reversed. <i>Cell Stem Cell</i> , 2011 , 8, 3-4	18	14
48	Mouse models to study the role of telomeres in cancer, aging and DNA repair. <i>European Journal of Cancer</i> , 2002 , 38, 2222-8	7.5	14
47	Mouse models for the study of telomerase. <i>Novartis Foundation Symposium</i> , 1997 , 211, 160-70; discussion 170-6		14
46	Telomere dysfunction results in enhanced organismal sensitivity to the alkylating agent N-methyl-N-nitrosourea. <i>Cancer Research</i> , 2003 , 63, 7047-50	10.1	14
45	Telomerase gene therapy ameliorates the effects of neurodegeneration associated to short telomeres in mice. <i>Aging</i> , 2019 , 11, 2916-2948	5.6	13
44	Molecular insights into the OGG1 gene, a cancer risk modifier in BRCA1 and BRCA2 mutations carriers. <i>Oncotarget</i> , 2016 , 7, 25815-25	3.3	13
43	Repair of DNA broken ends is similar in embryonic fibroblasts with and without telomerase. <i>Radiation Research</i> , 2004 , 162, 136-42	3.1	12
42	Chronic replicative stress induced by CCl4 in TRF1 knockout mice recapitulates the origin of large liver cell changes. <i>Journal of Hepatology</i> , 2015 , 63, 446-55	13.4	11
41	Telomere dynamics in patients with del (5q) MDS before and under treatment with lenalidomide. <i>Leukemia Research</i> , 2015 ,	2.7	11
40	AAV9-mediated telomerase activation does not accelerate tumorigenesis in the context of oncogenic K-Ras-induced lung cancer. <i>PLoS Genetics</i> , 2018 , 14, e1007562	6	11
39	Structural and functional studies on phi 29 DNA polymerase. <i>Chromosoma</i> , 1992 , 102, S32-8	2.8	11
38	Effectors of mammalian telomere dysfunction: a comparative transcriptome analysis using mouse models. <i>Carcinogenesis</i> , 2005 , 26, 1613-26	4.6	10
37	Transient exposure to miR-203 enhances the differentiation capacity of established pluripotent stem cells. <i>EMBO Journal</i> , 2020 , 39, e104324	13	10
36	p53 Modulates the Fate of Cardiac Progenitor Cells Ex Vivo and in the Diabetic Heart In Vivo. <i>EBioMedicine</i> , 2017 , 16, 224-237	8.8	9
35	The effect of rapamycin on bovine oocyte maturation success and metaphase telomere length maintenance. <i>Aging</i> , 2020 , 12, 7576-7584	5.6	9
34	Critically short telomeres and toxicity of chemotherapy in early breast cancer. <i>Oncotarget</i> , 2017 , 8, 21472-21483	3.3	9
33	Altered telomere homeostasis and resistance to skin carcinogenesis in Suv39h1 transgenic mice. <i>Cell Cycle</i> , 2015 , 14, 1438-46	4.7	8
32	Genome-wide analysis of in vivo TRF1 binding to chromatin restricts its location exclusively to telomeric repeats. <i>Cell Cycle</i> , 2014 , 13, 3742-9	4.7	7

31	The red blood cell proportion of arachidonic acid relates to shorter leukocyte telomeres in Mediterranean elders: A secondary analysis of a randomized controlled trial. <i>Clinical Nutrition</i> , 2019 , 38, 958-961	5.9	7
30	Inhibition of gene amplification in telomerase deficient immortalized mouse embryonic fibroblasts. <i>Carcinogenesis</i> , 2007 , 28, 553-9	4.6	6
29	In vivo role of checkpoint kinase 2 in signaling telomere dysfunction. <i>Aging Cell</i> , 2014 , 13, 810-6	9.9	5
28	Telomeres in Cancer Therapy. <i>Journal of Biomedicine and Biotechnology</i> , 2001 , 1, 3-4		5
27	Short and dysfunctional telomeres sensitize the kidneys to develop fibrosis. <i>Nature Aging</i> , 2021 , 1, 269-283		5
26	Molecular Architecture of Full-length TRF1 Favors Its Interaction with DNA. <i>Journal of Biological Chemistry</i> , 2016 , 291, 21829-21835	5.4	5
25	miR-490 suppresses telomere maintenance program and associated hallmarks in glioblastoma. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 2299-2314	10.3	5
24	Mice lacking RAP1 show early onset and higher rates of DEN-induced hepatocellular carcinomas in female mice. <i>PLoS ONE</i> , 2018 , 13, e0204909	3.7	4
23	A synthetic mRNA cell reprogramming method using CYCLIN D1 promotes DNA repair, generating improved genetically stable human induced pluripotent stem cells. <i>Stem Cells</i> , 2021 , 39, 866-881	5.8	3
22	Maternal telomere length is shorter in intrauterine growth restriction versus uncomplicated pregnancies, but not in the offspring or in IVF-conceived newborns. <i>Reproductive BioMedicine Online</i> , 2019 , 38, 606-612	4	3
21	Safety of Whole-Body Abrogation of the TRF1 Shelterin Protein in Wild-Type and Cancer-Prone Mouse Models. <i>IScience</i> , 2019 , 19, 572-585	6.1	2
20	Telomere Binding Proteins and Disease 2008 , 229-244		2
19	Short and dysfunctional telomeres protect from allergen-induced airway inflammation. <i>Aging Cell</i> , 2021 , 20, e13352	9.9	2
18	Blood Markers in Healthy-Aged Nonagenarians: A Combination of High Telomere Length and Low Amyloid β Are Strongly Associated With Healthy Aging in the Oldest Old. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 380	5.3	2
17	Analysis of Telomere Maintenance Related Genes Reveals as a New Metastatic-Risk Marker in Pheochromocytoma/Paraganglioma. <i>Cancers</i> , 2021 , 13,	6.6	2
16	Leukocyte telomere length in patients with schizophrenia and related disorders: a meta-analysis of case-control studies.. <i>Molecular Psychiatry</i> , 2022 ,	15.1	2
15	Long Live Partial Reprogramming. <i>Circulation Research</i> , 2017 , 120, 1381-1383	15.7	1
14	Profiling of Sox4-dependent transcriptome in skin links tumour suppression and adult stem cell activation. <i>Genomics Data</i> , 2015 , 6, 21-4		1

13	A possible role for telomerase RNA and telomere length in global mitotic recombination. <i>Cytogenetic and Genome Research</i> , 2008 , 122, 292-6	1.9	1
12	The telomerase knockout mouse. <i>Advances in Cell Aging and Gerontology</i> , 2001 , 8, 151-165		1
11	Slower rates of accumulation of DNA damage in leukocytes correlate with longer lifespans across several species of birds and mammals. <i>Aging</i> , 2019 , 11, 9829-9845	5.6	1
10	Conditional TRF1 Knockout in Haematopoietic Progenitor Cells Causes Telomere Shortening and Bone Marrow Failure by Induction of Cellular Senescence. <i>Blood</i> , 2011 , 118, 49-49	2.2	1
9	AKT-dependent signaling of extracellular cues through telomeres impact on tumorigenesis. <i>PLoS Genetics</i> , 2021 , 17, e1009410	6	1
8	Early differential responses elicited by BRAF in adult mouse models.. <i>Cell Death and Disease</i> , 2022 , 13, 142	9.8	0
7	Dynamics of telomeric repeat-containing RNA expression in early embryonic cleavage stages with regards to maternal age. <i>Aging</i> , 2020 , 12, 15906-15917	5.6	0
6	Ageing affects subtelomeric DNA methylation in blood cells from a large European population enrolled in the MARK-AGE study. <i>GeroScience</i> , 2021 , 43, 1283-1302	8.9	0
5	Reply to Udroui: Interesting mathematical analysis of telomere shortening rate and life span. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 2250	11.5	
4	María Blasco: Keeping a cap on cancer and aging. Interview by Caitlin Sedwick. <i>Journal of Cell Biology</i> , 2011 , 192, 370-1	7.3	
3	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. <i>Journal of Experimental Medicine</i> , 2008 , 205, i10-i10	16.6	
2	Accelerated Telomere Shortening Identifies a Subgroup of Patients with Myelodysplastic Syndrome and Isolated 5q Minus Deletion with a Higher Probability of Response to Lenalidomide Treatment. <i>Blood</i> , 2012 , 120, 3809-3809	2.2	
1	Screening protocol for the identification of modulators by immunofluorescent cell-based assay. <i>Chemical Biology and Drug Design</i> , 2020 , 95, 66-78	2.9	