Matt Kaeberlein

List of Publications by Citations

229 papers	19,317 citations	61 h-index	136 g-index
304 ext. papers	22,178 ext. citations	11.2 avg, IF	7.03 L-index

#	Paper	IF	Citations
229	Transcriptional silencing and longevity protein Sir2 is an NAD-dependent histone deacetylase. *Nature*, **2000**, 403, 795-800	50.4	2738
228	mTOR is a key modulator of ageing and age-related disease. *Nature*, **2013**, 493, 338-45	50.4	1078
227	Regulation of yeast replicative life span by TOR and Sch9 in response to nutrients. *Science*, **2005**, 310, 1193-6	33.3	1018
226	Calorie restriction extends Saccharomyces cerevisiae lifespan by increasing respiration. *Nature*, **2002**, 418, 344-8	50.4	843
225	Extension of chronological life span in yeast by decreased TOR pathway signaling. *Genes and Development*, **2006**, 20, 174-84	12.6	711
224	Substrate-specific activation of sirtuins by resveratrol. *Journal of Biological Chemistry*, **2005**, 280, 17038-45	5.4	608
223	Absence of effects of Sir2 overexpression on lifespan in C. elegans and Drosophila. *Nature*, **2011**, 477, 482-5	50.4	517
222	Histone H4 lysine 16 acetylation regulates cellular lifespan. *Nature*, **2009**, 459, 802-7	50.4	482
221	Replicative and chronological aging in Saccharomyces cerevisiae. *Cell Metabolism*, **2012**, 16, 18-31	24.6	414
220	Yeast life span extension by depletion of 60s ribosomal subunits is mediated by Gcn4. *Cell*, **2008**, 133, 292-302	56.2	365
219	Sir2-independent life span extension by calorie restriction in yeast. *PLoS Biology*, **2004**, 2, E296	9.7	350
218	Elimination of replication block protein Fob1 extends the life span of yeast mother cells. *Molecular Cell*, **1999**, 3, 447-55	17.6	341
217	mTOR inhibition alleviates mitochondrial disease in a mouse model of Leigh syndrome. *Science*, **2013**, 342, 1524-8	33.3	329
216	Lessons on longevity from budding yeast. *Nature*, **2010**, 464, 513-9	50.4	325
215	A molecular mechanism of chronological aging in yeast. *Cell Cycle*, **2009**, 8, 1256-70	4.7	274
214	The TOR pathway comes of age. *Biochimica Et Biophysica Acta - General Subjects*, **2009**, 1790, 1067-74	4	262
213	Lifespan extension in Caenorhabditis elegans by complete removal of food. *Aging Cell*, **2006**, 5, 487-94	9.9	252

212	Rapamycin reverses elevated mTORC1 signaling in lamin A/C-deficient mice, rescues cardiac and skeletal muscle function, and extends survival. *Science Translational Medicine*, **2012**, 4, 144ra103	17.5	249
211	Dietary restriction suppresses proteotoxicity and enhances longevity by an hsf-1-dependent mechanism in Caenorhabditis elegans. *Aging Cell*, **2008**, 7, 394-404	9.9	195
210	Proteasomal regulation of the hypoxic response modulates aging in C. elegans. *Science*, **2009**, 324, 1196-8	33.3	192
209	Transient rapamycin treatment can increase lifespan and healthspan in middle-aged mice. *ELife*, **2016**, 5,	8.9	184
208	Dietary restriction and lifespan: Lessons from invertebrate models. *Ageing Research Reviews*, **2017**, 39, 3-14	12	167
207	Elevated proteasome capacity extends replicative lifespan in Saccharomyces cerevisiae. *PLoS Genetics*, **2011**, 7, e1002253	6	167
206	Healthy aging: The ultimate preventative medicine. *Science*, **2015**, 350, 1191-3	33.3	164
205	A Comprehensive Analysis of Replicative Lifespan in 4,698 Single-Gene Deletion Strains Uncovers Conserved Mechanisms of Aging. *Cell Metabolism*, **2015**, 22, 895-906	24.6	158
204	Recent developments in yeast aging. *PLoS Genetics*, **2007**, 3, e84	6	157
203	Quantitative evidence for conserved longevity pathways between divergent eukaryotic species. *Genome Research*, **2008**, 18, 564-70	9.7	154
202	Increased life span due to calorie restriction in respiratory-deficient yeast. *PLoS Genetics*, **2005**, 1, e69	6	145
201	Resveratrol rescues SIRT1-dependent adult stem cell decline and alleviates progeroid features in laminopathy-based progeria. *Cell Metabolism*, **2012**, 16, 738-50	24.6	144
200	Genes determining yeast replicative life span in a long-lived genetic background. *Mechanisms of Ageing and Development*, **2005**, 126, 491-504	5.6	139
199	H3K36 methylation promotes longevity by enhancing transcriptional fidelity. *Genes and Development*, **2015**, 29, 1362-76	12.6	138
198	Activation of the mitochondrial unfolded protein response does not predict longevity in Caenorhabditis elegans. *Nature Communications*, **2014**, 5, 3483	17.4	138
197	Ribosome deficiency protects against ER stress in Saccharomyces cerevisiae. *Genetics*, **2012**, 191, 107-184		133
196	High osmolarity extends life span in Saccharomyces cerevisiae by a mechanism related to calorie restriction. *Molecular and Cellular Biology*, **2002**, 22, 8056-66	4.8	123
195	Measuring replicative life span in the budding yeast. *Journal of Visualized Experiments*, **2009**,	1.6	113

194	Molecular mechanisms underlying genotype-dependent responses to dietary restriction. *Aging Cell*, **2013**, 12, 1050-61	9.9	111
193	Measuring Caenorhabditis elegans life span on solid media. *Journal of Visualized Experiments*, **2009**,	1.6	102
192	Age- and calorie-independent life span extension from dietary restriction by bacterial deprivation in Caenorhabditis elegans. *BMC Developmental Biology*, **2008**, 8, 49	3.1	102
191	Saccharomyces cerevisiae MPT5 and SSD1 function in parallel pathways to promote cell wall integrity. *Genetics*, **2002**, 160, 83-95	4	101
190	A randomized controlled trial to establish effects of short-term rapamycin treatment in 24 middle-aged companion dogs. *GeroScience*, **2017**, 39, 117-127	8.9	94
189	Sirtuin-independent effects of nicotinamide on lifespan extension from calorie restriction in yeast. *Aging Cell*, **2006**, 5, 505-14	9.9	93
188	Shortest-path network analysis is a useful approach toward identifying genetic determinants of longevity. *PLoS ONE*, **2008**, 3, e3802	3.7	93
187	A method for high-throughput quantitative analysis of yeast chronological life span. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2008**, 63, 113-21	6.4	91
186	Sir2 and calorie restriction in yeast: a skeptical perspective. *Ageing Research Reviews*, **2007**, 6, 128-40	12	89
185	Longevity and aging. *F1000prime Reports*, **2013**, 5, 5		83
184	The short life span of Saccharomyces cerevisiae sgs1 and srs2 mutants is a composite of normal aging processes and mitotic arrest due to defective recombination. *Genetics*, **2001**, 157, 1531-42	4	83
183	HIF-1 modulates longevity and healthspan in a temperature-dependent manner. *Aging Cell*, **2011**, 10, 318-26	9.9	82
182	The sensitivity of yeast mutants to oleic acid implicates the peroxisome and other processes in membrane function. *Genetics*, **2007**, 175, 77-91	4	81
181	Cell nonautonomous activation of flavin-containing monooxygenase promotes longevity and health span. *Science*, **2015**, 350, 1375-1378	33.3	79
180	AGING AND MITOCHONDRIAL DISEASE: SHARED MECHANISMS AND THERAPIES?. *Innovation in Aging*, **2019**, 3, S395-S395	0.1	78
179	A natural polymorphism in rDNA replication origins links origin activation with calorie restriction and lifespan. *PLoS Genetics*, **2013**, 9, e1003329	6	77
178	Biochemical Genetic Pathways that Modulate Aging in Multiple Species. *Cold Spring Harbor Perspectives in Medicine*, **2015**, 5,	5.4	76
177	The dog aging project: translational geroscience in companion animals. *Mammalian Genome*, **2016**, 27, 279-88	3.2	75

176	A genomic analysis of chronological longevity factors in budding yeast. *Cell Cycle*, **2011**, 10, 1385-96	4.7	74
175	WormFarm: a quantitative control and measurement device toward automated Caenorhabditis elegans aging analysis. *Aging Cell*, **2013**, 12, 398-409	9.9	73
174	Modulating mTOR in aging and health. *Interdisciplinary Topics in Gerontology*, **2015**, 40, 107-27		68
173	Rapamycin and Alzheimer's disease: Time for a clinical trial?. *Science Translational Medicine*, **2019**, 11,	17.5	67
172	Large-scale identification in yeast of conserved ageing genes. *Mechanisms of Ageing and Development*, **2005**, 126, 17-21	5.6	66
171	Enhanced longevity by ibuprofen, conserved in multiple species, occurs in yeast through inhibition of tryptophan import. *PLoS Genetics*, **2014**, 10, e1004860	6	64
170	Resveratrol and rapamycin: are they anti-aging drugs?. *BioEssays*, **2010**, 32, 96-9	4.1	64
169	Lifespan extension conferred by endoplasmic reticulum secretory pathway deficiency requires induction of the unfolded protein response. *PLoS Genetics*, **2014**, 10, e1004019	6	62
168	pH neutralization protects against reduction in replicative lifespan following chronological aging in yeast. *Cell Cycle*, **2012**, 11, 3087-96	4.7	60
167	Inactivation of yeast Isw2 chromatin remodeling enzyme mimics longevity effect of calorie restriction via induction of genotoxic stress response. *Cell Metabolism*, **2014**, 19, 952-66	24.6	59
166	The ribosomal protein Rpl22 controls ribosome composition by directly repressing expression of its own paralog, Rpl22l1. *PLoS Genetics*, **2013**, 9, e1003708	6	58
165	Comment on "HST2 mediates SIR2-independent life-span extension by calorie restriction". *Science*, **2006**, 312, 1312; author reply 1312	33.3	57
164	Dietary restriction by bacterial deprivation increases life span in wild-derived nematodes. *Experimental Gerontology*, **2008**, 43, 130-5	4.5	56
163	Stress profiling of longevity mutants identifies Afg3 as a mitochondrial determinant of cytoplasmic mRNA translation and aging. *Aging Cell*, **2013**, 12, 156-66	9.9	55
162	Caffeine extends life span, improves healthspan, and delays age-associated pathology in Caenorhabditis elegans. *Longevity & Healthspan*, **2012**, 1, 9		54
161	Quantifying yeast chronological life span by outgrowth of aged cells. *Journal of Visualized Experiments*, **2009**,	1.6	53
160	Microfluidic technologies for yeast replicative lifespan studies. *Mechanisms of Ageing and Development*, **2017**, 161, 262-269	5.6	52
159	The SAGA histone deubiquitinase module controls yeast replicative lifespan via Sir2 interaction. *Cell Reports*, **2014**, 8, 477-86	10.6	52

158	Dose-dependent effects of mTOR inhibition on weight and mitochondrial disease in mice. *Frontiers in Genetics*, **2015**, 6, 247	4.5	52
157	Composition and acidification of the culture medium influences chronological aging similarly in vineyard and laboratory yeast. *PLoS ONE*, **2011**, 6, e24530	3.7	52
156	Restoration of senescent human diploid fibroblasts by modulation of the extracellular matrix. *Aging Cell*, **2011**, 10, 148-57	9.9	52
155	The hypoxia-inducible factor HIF-1 functions as both a positive and negative modulator of aging. *Biological Chemistry*, **2010**, 391, 1131-7	4.5	51
154	Genome-wide identification of conserved longevity genes in yeast and worms. *Mechanisms of Ageing and Development*, **2007**, 128, 106-11	5.6	51
153	Life-span extension from hypoxia in Caenorhabditis elegans requires both HIF-1 and DAF-16 and is antagonized by SKN-1. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2013**, 68, 1135-44	6.4	50
152	Why is aging conserved and what can we do about it?. *PLoS Biology*, **2015**, 13, e1002131	9.7	49
151	Midlife gene expressions identify modulators of aging through dietary interventions. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E1201-9	11.5	47
150	Transcription errors induce proteotoxic stress and shorten cellular lifespan. *Nature Communications* , **2015**, 6, 8065	17.4	46
149	Yeast replicative aging: a paradigm for defining conserved longevity interventions. *FEMS Yeast Research*, **2014**, 14, 148-59	3.1	46
148	Hot topics in aging research: protein translation and TOR signaling, 2010. *Aging Cell*, **2011**, 10, 185-90	9.9	46
147	Mutations in Saccharomyces cerevisiae gene SIR2 can have differential effects on in vivo silencing phenotypes and in vitro histone deacetylation activity. *Molecular Biology of the Cell*, **2002**, 13, 1427-38	3.5	46
146	Dietary restriction and mitochondrial function link replicative and chronological aging in Saccharomyces cerevisiae. *Experimental Gerontology*, **2013**, 48, 1006-13	4.5	45
145	A Drosophila model of mitochondrial disease caused by a complex I mutation that uncouples proton pumping from electron transfer. *DMM Disease Models and Mechanisms*, **2014**, 7, 1165-74	4.1	45
144	Sir2 deletion prevents lifespan extension in 32 long-lived mutants. *Aging Cell*, **2011**, 10, 1089-91	9.9	45
143	The enigmatic role of Sir2 in aging. *Cell*, **2005**, 123, 548-50	56.2	45
142	Hot topics in aging research: protein translation, 2009. *Aging Cell*, **2009**, 8, 617-23	9.9	44
141	Quantitative evidence for early life fitness defects from 32 longevity-associated alleles in yeast. *Cell Cycle*, **2011**, 10, 156-65	4.7	43

140	Saccharomyces cerevisiae SSD1-V confers longevity by a Sir2p-independent mechanism. *Genetics*, **2004**, 166, 1661-72	4	43
139	The mitochondrial unfolded protein response and increased longevity: cause, consequence, or correlation?. *Experimental Gerontology*, **2014**, 56, 142-6	4.5	42
138	Rapamycin treatment attenuates age-associated periodontitis in mice. *GeroScience*, **2017**, 39, 457-463	8.9	41
137	Genome-Wide RNAi Longevity Screens in Caenorhabditis elegans. *Current Genomics*, **2012**, 13, 508-18	2.6	41
136	mTOR Inhibition: From Aging to Autism and Beyond. *Scientifica*, **2013**, 2013, 849186	2.6	40
135	Protein translation, 2007. *Aging Cell*, **2007**, 6, 731-4	9.9	40
134	YODA: software to facilitate high-throughput analysis of chronological life span, growth rate, and survival in budding yeast. *BMC Bioinformatics*, **2010**, 11, 141	3.6	38
133	The Biology of Aging: Citizen Scientists and Their Pets as a Bridge Between Research on Model Organisms and Human Subjects. *Veterinary Pathology*, **2016**, 53, 291-8	2.8	37
132	Rapamycin in aging and disease: maximizing efficacy while minimizing side effects. *Oncotarget*, **2016**, 7, 44876-44878	3.3	37
131	Age-dependent deterioration of nuclear pore assembly in mitotic cells decreases transport dynamics. *ELife*, **2019**, 8,	8.9	35
130	Systematic analysis of asymmetric partitioning of yeast proteome between mother and daughter cells reveals "aging factors" and mechanism of lifespan asymmetry. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11977-82	11.5	34
129	Regulation of mRNA translation as a conserved mechanism of longevity control. *Advances in Experimental Medicine and Biology*, **2010**, 694, 14-29	3.6	34
128	Rapamycin enhances survival in a Drosophila model of mitochondrial disease. *Oncotarget*, **2016**, 7, 80131-80139	5.9	32
127	Transaldolase inhibition impairs mitochondrial respiration and induces a starvation-like longevity response in Caenorhabditis elegans. *PLoS Genetics*, **2017**, 13, e1006695	6	29
126	Rapamycin and ageing: when, for how long, and how much?. *Journal of Genetics and Genomics*, **2014** , 41, 459-63	4	29
125	The hypoxic response and aging. *Cell Cycle*, **2009**, 8, 2324	4.7	29
124	Protein translation, 2008. *Aging Cell*, **2008**, 7, 777-82	9.9	29
123	Cell signaling. Aging is RSKy business. *Science*, **2009**, 326, 55-6	33.3	28

122	Syringaresinol protects against hypoxia/reoxygenation-induced cardiomyocytes injury and death by destabilization of HIF-1 in a FOXO3-dependent mechanism. *Oncotarget*, **2015**, 6, 43-55	3.3	28
121	Flavin-containing monooxygenases in aging and disease: Emerging roles for ancient enzymes. *Journal of Biological Chemistry*, **2017**, 292, 11138-11146	5.4	28
120	mTOR inhibitors may benefit kidney transplant recipients with mitochondrial diseases. *Kidney International*, **2019**, 95, 455-466	9.9	28
119	Asymptomatic heart valve dysfunction in healthy middle-aged companion dogs and its implications for cardiac aging. *GeroScience*, **2017**, 39, 43-50	8.9	27
118	Preserving youth: does rapamycin deliver?. *Science Translational Medicine*, **2013**, 5, 211fs40	17.5	27
117	Translational geroscience: A new paradigm for 21 century medicine. *Translational Medicine of Aging*, **2017**, 1, 1-4	2.7	26
116	Rapamycin rejuvenates oral health in aging mice. *ELife*, **2020**, 9,	8.9	26
115	AGEID: a database of aging genes and interventions. *Mechanisms of Ageing and Development*, **2002**, 123, 1115-9	5.6	25
114	A genetic screen for zygotic embryonic lethal mutations affecting cuticular morphology in the wasp Nasonia vitripennis. *Genetics*, **2000**, 154, 1213-29	4	25
113	Age-associated vulval integrity is an important marker of nematode healthspan. *Age*, **2016**, 38, 419-431		24
112	Genetic screen identifies adaptive aneuploidy as a key mediator of ER stress resistance in yeast. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9586-9591	11.5	24
111	Using yeast to discover the fountain of youth. *Science of Aging Knowledge Environment: SAGE KE*, **2001**, 2001, pe1		23
110	Oral health in geroscience: animal models and the aging oral cavity. *GeroScience*, **2018**, 40, 1-10	8.9	22
109	End-of-life cell cycle arrest contributes to stochasticity of yeast replicative aging. *FEMS Yeast Research*, **2013**, 13, 267-76	3.1	21
108	Sorbitol treatment extends lifespan and induces the osmotic stress response in Caenorhabditis elegans. *Frontiers in Genetics*, **2015**, 6, 316	4.5	21
107	Yeast as a model to understand the interaction between genotype and the response to calorie restriction. *FEBS Letters*, **2012**, 586, 2868-73	3.8	21
106	Desexing Dogs: A Review of the Current Literature. *Animals*, **2019**, 9,	3.1	21
105	A role for SIRT1 in the hypoxic response. *Molecular Cell*, **2010**, 38, 779-80	17.6	20

104	A review of the biomedical innovations for healthy longevity. *Aging*, **2017**, 9, 7-25	5.6	18
103	A genomic approach to yeast chronological aging. *Methods in Molecular Biology*, **2009**, 548, 101-14	1.4	18
102	Rejuvenation: it's in our blood. *Cell Metabolism*, **2014**, 20, 2-4	24.6	17
101	A system to identify inhibitors of mTOR signaling using high-resolution growth analysis in Saccharomyces cerevisiae. *GeroScience*, **2017**, 39, 419-428	8.9	17
100	Does resveratrol activate yeast Sir2 in vivo?. *Aging Cell*, **2007**, 6, 415-6	9.9	17
99	Life span extension by glucose restriction is abrogated by methionine supplementation: Cross-talk between glucose and methionine and implication of methionine as a key regulator of life span. *Science Advances*, **2020**, 6, eaba1306	14.3	17
98	Aneuploidy shortens replicative lifespan in Saccharomyces cerevisiae. *Aging Cell*, **2016**, 15, 317-24	9.9	17
97	The ongoing saga of sirtuins and aging. *Cell Metabolism*, **2008**, 8, 4-5	24.6	16
96	DNA damage checkpoint activation impairs chromatin homeostasis and promotes mitotic catastrophe during aging. *ELife*, **2019**, 8,	8.9	16
95	PMT1 deficiency enhances basal UPR activity and extends replicative lifespan of Saccharomyces cerevisiae. *Age*, **2015**, 37, 9788		15
94	The paths of mortality: how understanding the biology of aging can help explain systems behavior of single cells. *Current Opinion in Systems Biology*, **2018**, 8, 25-31	3.2	15
93	Hypertrophy and senescence factors in yeast aging. A reply to Bilinski et al. *FEMS Yeast Research*, **2012**, 12, 269-70	3.1	15
92	Chaperone biomarkers of lifespan and penetrance track the dosages of many other proteins. *Nature Communications*, **2019**, 10, 5725	17.4	15
91	The potential of rapalogs to enhance resilience against SARS-CoV-2 infection and reduce the severity of COVID-19. *The Lancet Healthy Longevity*, **2021**, 2, e105-e111	9.5	15
90	Loss of vacuolar acidity results in iron-sulfur cluster defects and divergent homeostatic responses during aging in Saccharomyces cerevisiae. *GeroScience*, **2020**, 42, 749-764	8.9	14
89	Buffering the pH of the culture medium does not extend yeast replicative lifespan. *F1000Research*, **2013**, 2, 216	3.6	14
88	Elevated MTORC1 signaling and impaired autophagy. *Autophagy*, **2013**, 9, 108-9	10.2	14
87	Genome-wide analysis of yeast aging. *Sub-Cellular Biochemistry*, **2012**, 57, 251-89	5.5	14

86	Antiaging diets: Separating fact from fiction. *Science*, **2021**, 374, eabe7365	33.3	14
85	CAN1 Arginine Permease Deficiency Extends Yeast Replicative Lifespan via Translational Activation of Stress Response Genes. *Cell Reports*, **2017**, 18, 1884-1892	10.6	13
84	PKC downregulation upon rapamycin treatment attenuates mitochondrial disease. *Nature Metabolism*, **2020**, 2, 1472-1481	14.6	13
83	Hepatic S6K1 Partially Regulates Lifespan of Mice with Mitochondrial Complex I Deficiency. *Frontiers in Genetics*, **2017**, 8, 113	4.5	13
82	A physicochemical perspective of aging from single-cell analysis of pH, macromolecular and organellar crowding in yeast. *ELife*, **2020**, 9,	8.9	13
81	WormBot, an open-source robotics platform for survival and behavior analysis in C. elegans. *GeroScience*, **2019**, 41, 961-973	8.9	13
80	Genetic interaction with temperature is an important determinant of nematode longevity. *Aging Cell*, **2017**, 16, 1425-1429	9.9	12
79	Tether mutations that restore function and suppress pleiotropic phenotypes of the C. elegans isp-1(qm150) Rieske iron-sulfur protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6148-57	11.5	12
78	A toolkit for DNA assembly, genome engineering and multicolor imaging for. *Translational Medicine of Aging*, **2018**, 2, 1-10	2.7	12
77	In vivo measurements reveal a single 5'-intron is sufficient to increase protein expression level in Caenorhabditis elegans. *Scientific Reports*, **2019**, 9, 9192	4.9	11
76	Lifespan of companion dogs seen in three independent primary care veterinary clinics in the United States. *Canine Medicine and Genetics*, **2020**, 7, 7	2.1	11
75	Defining Molecular Basis for Longevity Traits in Natural Yeast Isolates. *Npj Aging and Mechanisms of Disease*, **2015**, 1,	5.5	11
74	Regional metabolic signatures in the Ndufs4(KO) mouse brain implicate defective glutamate/Ɛketoglutarate metabolism in mitochondrial disease. *Molecular Genetics and Metabolism*, **2020**, 130, 118-132	3.7	11
73	Translational Geroscience: From invertebrate models to companion animal and human interventions. *Translational Medicine of Aging*, **2018**, 2, 15-29	2.7	11
72	Environmental Canalization of Life Span and Gene Expression in Caenorhabditis elegans. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 1033-1037	6.4	10
71	The antifungal plant defensin HsAFP1 induces autophagy, vacuolar dysfunction and cell cycle impairment in yeast. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183255	3.8	10
70	Single-gene deletions that restore mating competence to diploid yeast. *FEMS Yeast Research*, **2008**, 8, 276-86	3.1	10
69	Longevity genomics across species. *Current Genomics*, **2007**, 8, 73-8	2.6	10

68	Reactivation of RNA metabolism underlies somatic restoration after adult reproductive diapause in. *ELife*, **2018**, 7,	8.9	10
67	Fertile waters for aging research. *Cell*, **2015**, 160, 814-815	56.2	9
66	Nar1 deficiency results in shortened lifespan and sensitivity to paraquat that is rescued by increased expression of mitochondrial superoxide dismutase. *Mechanisms of Ageing and Development*, **2014**, 138, 53-8	5.6	9
65	Translational control of one-carbon metabolism underpins ribosomal protein phenotypes in cell division and longevity. *ELife*, **2020**, 9,	8.9	9
64	Defining the impact of mutation accumulation on replicative lifespan in yeast using cancer-associated mutator phenotypes. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 3062-3071	11.5	8
63	A new chronological survival assay in mammalian cell culture. *Cell Cycle*, **2012**, 11, 201-2	4.7	8
62	Application of High-Throughput Technologies to Aging-Related Research **2006**, 109-119		8
61	Saccharomyces cerevisiae SSD1-V Confers Longevity by a Sir2p-Independent Mechanism. *Genetics*, **2004**, 166, 1661-1672	4	8
60	Inactivating histone deacetylase HDA promotes longevity by mobilizing trehalose metabolism. *Nature Communications*, **2021**, 12, 1981	17.4	8
59	MicroRNA transcriptome analysis identifies miR-365 as a novel negative regulator of cell proliferation in Zmpste24-deficient mouse embryonic fibroblasts. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2015**, 777, 69-78	3.3	7
58	Genome-wide approaches to understanding human ageing. *Human Genomics*, **2006**, 2, 422-8	6.8	7
57	Aging-related research in the "-omics" age. *Science of Aging Knowledge Environment: SAGE KE*, **2004**, 2004, pe39		7
56	An energetics perspective on geroscience: mitochondrial protonmotive force and aging. *GeroScience*, **2021**, 43, 1591-1604	8.9	7
55	RTB101 and immune function in the elderly: Interpreting an unsuccessful clinical trial. *Translational Medicine of Aging*, **2020**, 4, 32-34	2.7	6
54	An inexpensive microscopy system for microfluidic studies in budding yeast. *Translational Medicine of Aging*, **2019**, 3, 52-56	2.7	6
53	The MDT-15 subunit of mediator interacts with dietary restriction to modulate longevity and fluoranthene toxicity in Caenorhabditis elegans. *PLoS ONE*, **2011**, 6, e28036	3.7	6
52	New functional and biophysical insights into the mitochondrial Rieske iron-sulfur protein from genetic suppressor analysis in C. elegans. *Worm*, **2016**, 5, e1174803		6
51	Latest advances in aging research and drug discovery. *Aging*, **2019**, 11, 9971-9981	5.6	6

50	Electrophysiological Measures of Aging Pharynx Function in C. elegans Reveal Enhanced Organ Functionality in Older, Long-lived Mutants. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2019**, 74, 1173-1179	6.4	6
49	Time for a New Strategy in the War on Alzheimer Disease. *The Public Policy and Aging Report*, **2019**, 29, 119-122	1.8	5
48	Searching for the elusive mitochondrial longevity signal in C. elegans. *Worm*, **2014**, 3, e959404		5
47	Research to Promote Longevity and Health Span in Companion Dogs: A Pediatric Perspective. *American Journal of Bioethics*, **2018**, 18, 64-65	1.1	5
46	Inter-organ regulation of haem homeostasis. *Nature Cell Biology*, **2017**, 19, 756-758	23.4	4
45	An open science study of ageing in companion dogs.. *Nature*, **2022**, 602, 51-57	50.4	4
44	It is Time to Embrace 21st-Century Medicine. *The Public Policy and Aging Report*, **2019**, 29, 111-115	1.8	3
43	Composition of Caenorhabditis elegans extracellular vesicles suggests roles in metabolism, immunity, and aging. *GeroScience*, **2020**, 42, 1133-1145	8.9	3
42	UV-photoconversion of ethosuximide from a longevity-promoting compound to a potent toxin. *PLoS ONE*, **2013**, 8, e82543	3.7	3
41	Evolution of natural lifespan variation and molecular strategies of extended lifespan in yeast. *ELife*, **2021**, 10,	8.9	3
40	Purification and Analysis of Caenorhabditis elegans Extracellular Vesicles. *Journal of Visualized Experiments*, **2020**,	1.6	3
39	A physicochemical roadmap of yeast replicative aging		3
38	Phenotypic and Genotypic Consequences of CRISPR/Cas9 Editing of the Replication Origins in the rDNA of. *Genetics*, **2019**, 213, 229-249	4	3
37	Cell-to-cell variation in gene expression and the aging process. *GeroScience*, **2021**, 43, 181-196	8.9	3
36	Canine Cognitive Dysfunction (CCD) scores correlate with amyloid beta 42 levels in dog brain tissue. *GeroScience*, **2021**, 43, 2379-2386	8.9	3
35	A prion accelerates proliferation at the expense of lifespan. *ELife*, **2021**, 10,	8.9	3
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