Richard A Miller

List of Publications by Citations

233 papers	14,788 citations	57 h-index	116 g-index
244 ext. papers	16,958 ext. citations	8 avg, IF	6.42 L-index

#	Paper	IF	Citations
233	Rapamycin fed late in life extends lifespan in genetically heterogeneous mice. *Nature*, **2009**, 460, 392-5	50.4	2616
232	Rapamycin, but not resveratrol or simvastatin, extends life span of genetically heterogeneous mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2011**, 66, 191-201	6.4	648
231	Methionine-deficient diet extends mouse lifespan, slows immune and lens aging, alters glucose, T4, IGF-I and insulin levels, and increases hepatocyte MIF levels and stress resistance. *Aging Cell*, **2005**, 4, 119-25	9.9	534
230	Rapamycin slows aging in mice. *Aging Cell*, **2012**, 11, 675-82	9.9	452
229	mTOR regulates MAPKAPK2 translation to control the senescence-associated secretory phenotype. *Nature Cell Biology*, **2015**, 17, 1205-17	23.4	372
228	Rapamycin-mediated lifespan increase in mice is dose and sex dependent and metabolically distinct from dietary restriction. *Aging Cell*, **2014**, 13, 468-77	9.9	354
227	Extending the lifespan of long-lived mice. *Nature*, **2001**, 414, 412	50.4	336
226	Pgp-1hi T lymphocytes accumulate with age in mice and respond poorly to concanavalin A. *European Journal of Immunology*, **1989**, 19, 977-82	6.1	244
225	Acarbose, 17-□estradiol, and nordihydroguaiaretic acid extend mouse lifespan preferentially in males. *Aging Cell*, **2014**, 13, 273-82	9.9	236
224	Nordihydroguaiaretic acid and aspirin increase lifespan of genetically heterogeneous male mice. *Aging Cell*, **2008**, 7, 641-50	9.9	234
223	Fibroblast cell lines from young adult mice of long-lived mutant strains are resistant to multiple forms of stress. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 289, E23-9	6	200
222	Life-span extension in mice by preweaning food restriction and by methionine restriction in middle age. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2009**, 64, 711-22	6.4	197
221	Using DNA Methylation Profiling to Evaluate Biological Age and Longevity Interventions. *Cell Metabolism*, **2017**, 25, 954-960.e6	24.6	196
220	Longer life spans and delayed maturation in wild-derived mice. *Experimental Biology and Medicine*, **2002**, 227, 500-8	3.7	196
219	Multiplex stress resistance in cells from long-lived dwarf mice. *FASEB Journal*, **2003**, 17, 1565-6	0.9	183
218	Longer lifespan in male mice treated with a weakly estrogenic agonist, an antioxidant, an □glucosidase inhibitor or a Nrf2-inducer. *Aging Cell*, **2016**, 15, 872-84	9.9	176
217	Big mice die young: early life body weight predicts longevity in genetically heterogeneous mice. *Aging Cell*, **2002**, 1, 22-9	9.9	171

216	Reduced expression of MYC increases longevity and enhances healthspan. *Cell*, **2015**, 160, 477-88	56.2	161
215	Evaluation of resveratrol, green tea extract, curcumin, oxaloacetic acid, and medium-chain triglyceride oil on life span of genetically heterogeneous mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2013**, 68, 6-16	6.4	149
214	An Aging Interventions Testing Program: study design and interim report. *Aging Cell*, **2007**, 6, 565-75	9.9	143
213	Early activation defects in T lymphocytes from aged mice. *Immunological Reviews*, **1997**, 160, 79-90	11.3	132
212	Diminished calcium influx in lectin-stimulated T cells from old mice. *Journal of Cellular Physiology*, **1987**, 132, 337-42	7	129
211	Diverse interventions that extend mouse lifespan suppress shared age-associated epigenetic changes at critical gene regulatory regions. *Genome Biology*, **2017**, 18, 58	18.3	119
210	Hormone-treated snell dwarf mice regain fertility but remain long lived and disease resistant. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2004**, 59, 1244-50	6.4	119
209	Age-dependent alterations in the assembly of signal transduction complexes at the site of T cell/APC interaction. *Journal of Immunology*, **2000**, 165, 1243-51	5.3	116
208	Skin-derived fibroblasts from long-lived species are resistant to some, but not all, lethal stresses and to the mitochondrial inhibitor rotenone. *Aging Cell*, **2007**, 6, 1-13	9.9	115
207	Nrf2 signaling, a mechanism for cellular stress resistance in long-lived mice. *Molecular and Cellular Biology*, **2010**, 30, 871-84	4.8	114
206	Extending life: scientific prospects and political obstacles. *Milbank Quarterly*, **2002**, 80, 155-74	3.9	109
205	Early life growth hormone treatment shortens longevity and decreases cellular stress resistance in long-lived mutant mice. *FASEB Journal*, **2010**, 24, 5073-9	0.9	107
204	Gene expression patterns in calorically restricted mice: partial overlap with long-lived mutant mice. *Molecular Endocrinology*, **2002**, 16, 2657-66		107
203	Single-cell analyses reveal two defects in peptide-specific activation of naive T cells from aged mice. *Journal of Immunology*, **2001**, 166, 3151-7	5.3	106
202	Effect of aging on T lymphocyte activation. *Vaccine*, **2000**, 18, 1654-60	4.1	104
201	Changes in the gut microbiome and fermentation products concurrent with enhanced longevity in acarbose-treated mice. *BMC Microbiology*, **2019**, 19, 130	4.5	98
200	Liver-specific GH receptor gene-disrupted (LiGHRKO) mice have decreased endocrine IGF-I, increased local IGF-I, and altered body size, body composition, and adipokine profiles. *Endocrinology* , **2014**, 155, 1793-805	4.8	95
199	Fibroblasts from naked mole-rats are resistant to multiple forms of cell injury, but sensitive to peroxide, ultraviolet light, and endoplasmic reticulum stress. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2008**, 63, 232-41	6.4	91

198	Growth hormone action predicts age-related white adipose tissue dysfunction and senescent cell burden in mice. *Aging*, **2014**, 6, 575-86	5.6	91
197	New model of health promotion and disease prevention for the 21st century. *BMJ, The*, **2008**, 337, a399	5.9	89
196	Decline, in aging mice, of the anti-2,4,6-trinitrophenyl (TNP) cytotoxic T cell response attributable to loss of Lyt-2-, interleukin 2-producing helper cell function. *European Journal of Immunology*, **1981**, 11, 751-6	6.1	86
195	Memory T lymphocyte hyporesponsiveness to non-cognate stimuli: a key factor in age-related immunodeficiency. *European Journal of Immunology*, **1992**, 22, 931-5	6.1	83
194	PAccelerated agingP: a primrose path to insight?. *Aging Cell*, **2004**, 3, 47-51	9.9	78
193	Age-associated changes in mitogen-induced protein phosphorylation in murine T lymphocytes. *European Journal of Immunology*, **1992**, 22, 253-60	6.1	78
192	Age-dependent defects in TCR-triggered cytoskeletal rearrangement in CD4+ T cells. *Journal of Immunology*, **2002**, 169, 5021-7	5.3	76
191	Functional linkages for the pace of life, life-history, and environment in birds. *Integrative and Comparative Biology*, **2010**, 50, 855-68	2.8	69
190	Organization of the Mammalian Metabolome according to Organ Function, Lineage Specialization, and Longevity. *Cell Metabolism*, **2015**, 22, 332-43	24.6	68
189	Assessment of mitochondrial biogenesis and mTORC1 signaling during chronic rapamycin feeding in male and female mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2013**, 68, 1493-501	6.4	68
188	Activation of genes involved in xenobiotic metabolism is a shared signature of mouse models with extended lifespan. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 303, E488-95	6	68
187	Age-related changes in T cell surface markers: a longitudinal analysis in genetically heterogeneous mice. *Mechanisms of Ageing and Development*, **1997**, 96, 181-96	5.6	66
186	Stress resistance and aging: influence of genes and nutrition. *Mechanisms of Ageing and Development*, **2006**, 127, 687-94	5.6	66
185	Gerontology as oncology. Research on aging as the key to the understanding of cancer. *Cancer*, **1991**, 68, 2496-501	6.4	65
184	Signal transduction in the aging immune system. *Current Opinion in Immunology*, **2005**, 17, 486-91	7.8	63
183	Fibroblasts from long-lived bird species are resistant to multiple forms of stress. *Journal of Experimental Biology*, **2011**, 214, 1902-10	3	62
182	Differential tyrosine phosphorylation of zeta chain dimers in mouse CD4 T lymphocytes: effect of age. *Cellular Immunology*, **1997**, 175, 51-7	4.4	62
181	Exotic mice as models for aging research: polemic and prospectus. *Neurobiology of Aging*, **1999**, 20, 217-31	5.6	62

180	Measures of Healthspan as Indices of Aging in Mice-A Recommendation. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 427-30	6.4	61
179	Extended longevity of wild-derived mice is associated with peroxidation-resistant membranes. *Mechanisms of Ageing and Development*, **2006**, 127, 653-7	5.6	61
178	Mapping ecologically relevant social behaviours by gene knockout in wild mice. *Nature Communications*, **2014**, 5, 4569	17.4	58
177	CD4 memory T cell levels predict life span in genetically heterogeneous mice. *FASEB Journal*, **1997**, 11, 775-83	0.9	57
176	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. *Cell Metabolism*, **2017**, 25, 1320-1333.e5	24.6	56
175	Decline, with age, in the proportion of mouse T cells that express IL-2 receptors after mitogen stimulation. *Mechanisms of Ageing and Development*, **1986**, 33, 313-22	5.6	56
174	NIA Interventions Testing Program: Investigating Putative Aging Intervention Agents in a Genetically Heterogeneous Mouse Model. *EBioMedicine*, **2017**, 21, 3-4	8.8	55
173	Identification and Application of Gene Expression Signatures Associated with Lifespan Extension. *Cell Metabolism*, **2019**, 30, 573-593.e8	24.6	55
172	Regulation of mTOR activity in Snell dwarf and GH receptor gene-disrupted mice. *Endocrinology*, **2015**, 156, 565-75	4.8	55
171	Enteric-delivered rapamycin enhances resistance of aged mice to pneumococcal pneumonia through reduced cellular senescence. *Experimental Gerontology*, **2012**, 47, 958-65	4.5	55
170	Cell stress and aging: new emphasis on multiplex resistance mechanisms. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2009**, 64, 179-82	6.4	54
169	Science fact and the SENS agenda. What can we reasonably expect from ageing research?. *EMBO Reports*, **2005**, 6, 1006-8	6.5	54
168	Lifespan of mice and primates correlates with immunoproteasome expression. *Journal of Clinical Investigation*, **2015**, 125, 2059-68	15.9	54
167	The GH/IGF-1 axis in a critical period early in life determines cellular DNA repair capacity by altering transcriptional regulation of DNA repair-related genes: implications for the developmental origins of cancer. *GeroScience*, **2017**, 39, 147-160	8.9	53
166	Quantitative trait loci for femoral size and shape in a genetically heterogeneous mouse population. *Journal of Bone and Mineral Research*, **2003**, 18, 1497-505	6.3	53
165	Defective control of cytoplasmic calcium concentration in T lymphocytes from old mice. *Journal of Cellular Physiology*, **1989**, 138, 175-82	7	53
164	mTORC1 underlies age-related muscle fiber damage and loss by inducing oxidative stress and catabolism. *Aging Cell*, **2019**, 18, e12943	9.9	52
163	Growth hormone modulates hypothalamic inflammation in long-lived pituitary dwarf mice. *Aging Cell*, **2015**, 14, 1045-54	9.9	52

162	Altered composition of the immunological synapse in an anergic, age-dependent memory T cell subset. *Journal of Immunology*, **2000**, 164, 6105-12	5.3	52
161	Diminished activation of the MAP kinase pathway in CD3-stimulated T lymphocytes from old mice. *Mechanisms of Ageing and Development*, **1997**, 94, 71-83	5.6	51
160	Biomarkers of aging: prediction of longevity by using age-sensitive T-cell subset determinations in a middle-aged, genetically heterogeneous mouse population. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2001**, 56, B180-6	6.4	50
159	Acarbose improves health and lifespan in aging HET3 mice. *Aging Cell*, **2019**, 18, e12898	9.9	47
158	Sex differences in lifespan extension with acarbose and 17-α estradiol: gonadal hormones underlie male-specific improvements in glucose tolerance and mTORC2 signaling. *Aging Cell*, **2017**, 16, 1256-1266	9.9	47
157	ATF4 activity: a common feature shared by many kinds of slow-aging mice. *Aging Cell*, **2014**, 13, 1012-8	9.9	46
156	Macrophage migration inhibitory factor-knockout mice are long lived and respond to caloric restriction. *FASEB Journal*, **2010**, 24, 2436-42	0.9	46
155	Rapid tyrosine phosphorylation of Grb2 and Shc in T cells exposed to anti-CD3, anti-CD4, and anti-CD45 stimuli: differential effects of aging. *Mechanisms of Ageing and Development*, **1995**, 80, 171-87	5.6	44
154	T lymphocyte heterogeneity in old and young mice: functional defects in T cells selected for poor calcium signal generation. *European Journal of Immunology*, **1989**, 19, 695-9	6.1	44
153	Anti-aging drugs reduce hypothalamic inflammation in a sex-specific manner. *Aging Cell*, **2017**, 16, 652-660	9.9	43
152	Endocrine regulation of heat shock protein mRNA levels in long-lived dwarf mice. *Mechanisms of Ageing and Development*, **2009**, 130, 393-400	5.6	43
151	Analysis of Raf-1 activation in response to TCR activation and costimulation in murine T-lymphocytes: effect of age. *Cellular Immunology*, **1998**, 190, 33-42	4.4	43
150	Age-associated changes in glycosylation of CD43 and CD45 on mouse CD4 T cells. *European Journal of Immunology*, **2005**, 35, 622-31	6.1	43
149	Accumulation of hyporesponsive, calcium extruding memory T cells as a key feature of age-dependent immune dysfunction. *Clinical Immunology and Immunopathology*, **1991**, 58, 305-17		43
148	Fibroblasts from long-lived Snell dwarf mice are resistant to oxygen-induced in vitro growth arrest. *Aging Cell*, **2006**, 5, 89-96	9.9	42
147	Genetic loci that influence cause of death in a heterogeneous mouse stock. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2004**, 59, 977-83	6.4	42
146	Age-associated changes in human T cell phenotype and function. *Aging Clinical and Experimental Research*, **1994**, 6, 25-34	4.8	42
145	Cell culture-based profiling across mammals reveals DNA repair and metabolism as determinants of species longevity. *ELife*, **2016**, 5,	8.9	42

144	Rapamycin treatment attenuates age-associated periodontitis in mice. *GeroScience*, **2017**, 39, 457-463	8.9	41
143	Quantitative trait loci that modulate femoral mechanical properties in a genetically heterogeneous mouse population. *Journal of Bone and Mineral Research*, **2004**, 19, 1497-505	6.3	41
142	Mouse loci associated with life span exhibit sex-specific and epistatic effects. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2002**, 57, B9-B15	6.4	41
141	Mouse () stocks derived from tropical islands: new models for genetic analysis of life-history traits. *Journal of Zoology*, **2000**, 250, 95-104	2	41
140	Gene expression profile of long-lived snell dwarf mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2002**, 57, B99-108	6.4	40
139	Fibroblasts from long-lived mutant mice exhibit increased autophagy and lower TOR activity after nutrient deprivation or oxidative stress. *Aging Cell*, **2012**, 11, 668-74	9.9	39
138	Quantitative trait loci for insulin-like growth factor I, leptin, thyroxine, and corticosterone in genetically heterogeneous mice. *Physiological Genomics*, **2003**, 15, 44-51	3.6	38
137	Body weight, hormones and T cell subsets as predictors of life span in genetically heterogeneous mice. *Mechanisms of Ageing and Development*, **2004**, 125, 381-90	5.6	38
136	T cell subset patterns that predict resistance to spontaneous lymphoma, mammary adenocarcinoma, and fibrosarcoma in mice. *Journal of Immunology*, **2002**, 169, 1619-25	5.3	38
135	T cells in aging mice: genetic, developmental, and biochemical analyses. *Immunological Reviews*, **2005**, 205, 94-103	11.3	37
134	Multiple-trait quantitative trait loci analysis using a large mouse sibship. *Genetics*, **1999**, 151, 785-95	4	36
133	mTOR regulates the expression of DNA damage response enzymes in long-lived Snell dwarf, GHRKO, and PAPPA-KO mice. *Aging Cell*, **2017**, 16, 52-60	9.9	35
132	Genetic modulation of hormone levels and life span in hybrids between laboratory and wild-derived mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2006**, 61, 1019-29	6.4	35
131	Age-related decline in activation of JNK by TCR- and CD28-mediated signals in murine T-lymphocytes. *Cellular Immunology*, **1999**, 197, 75-82	4.4	35
130	Long-lived Snell dwarf mice display increased proteostatic mechanisms that are not dependent on decreased mTORC1 activity. *Aging Cell*, **2015**, 14, 474-82	9.9	34
129	Altered development of intestinal intraepithelial lymphocytes in P-glycoprotein-deficient mice. *Developmental and Comparative Immunology*, **2000**, 24, 783-95	3.2	34
128	Increased Zap-70 association with CD3zeta in CD4 T cells from old mice. *Cellular Immunology*, **1998**, 190, 91-100	4.4	33
127	Age-related defects in CD4+ T cell activation reversed by glycoprotein endopeptidase. *European Journal of Immunology*, **2003**, 33, 3464-72	6.1	33

126	Correlated resistance to glucose deprivation and cytotoxic agents in fibroblast cell lines from long-lived pituitary dwarf mice. *Mechanisms of Ageing and Development*, **2006**, 127, 821-9	5.6	31
125	Fibroblasts from long-lived mutant mice show diminished ERK1/2 phosphorylation but exaggerated induction of immediate early genes. *Free Radical Biology and Medicine*, **2009**, 47, 1753-61	7.8	30
124	Long-lived crowded-litter mice have an age-dependent increase in protein synthesis to DNA synthesis ratio and mTORC1 substrate phosphorylation. *American Journal of Physiology - Endocrinology and Metabolism*, **2014**, 307, E813-21	6	29
123	Cells from long-lived mutant mice exhibit enhanced repair of ultraviolet lesions. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2008**, 63, 219-31	6.4	29
122	Glycine supplementation extends lifespan of male and female mice. *Aging Cell*, **2019**, 18, e12953	9.9	28
121	Fibroblasts From Longer-Lived Species of Primates, Rodents, Bats, Carnivores, and Birds Resist Protein Damage. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 791-9	6.4	28
120	Hepatic response to oxidative injury in long-lived Ames dwarf mice. *FASEB Journal*, **2011**, 25, 398-408	0.9	28
119	Long-lived crowded-litter mice exhibit lasting effects on insulin sensitivity and energy homeostasis. *American Journal of Physiology - Endocrinology and Metabolism*, **2014**, 306, E1305-14	6	27
118	Heightened induction of proapoptotic signals in response to endoplasmic reticulum stress in primary fibroblasts from a mouse model of longevity. *Journal of Biological Chemistry*, **2011**, 286, 30344-30351	5.4	27
117	Elevated ATF4 function in fibroblasts and liver of slow-aging mutant mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 263-72	6.4	26
116	Sulfur-based redox alterations in long-lived Snell dwarf mice. *Mechanisms of Ageing and Development*, **2013**, 134, 321-30	5.6	26
115	Three-locus and four-locus QTL interactions influence mouse insulin-like growth factor-I. *Physiological Genomics*, **2006**, 26, 46-54	3.6	26
114	Hormone levels and cataract scores as sex-specific, mid-life predictors of longevity in genetically heterogeneous mice. *Mechanisms of Ageing and Development*, **2003**, 124, 801-10	5.6	26
113	Memory and anergy: challenges to traditional models of T lymphocyte differentiation. *FASEB Journal*, **1992**, 6, 2428-33	0.9	26
112	Biomedicine. The anti-aging sweepstakes: catalase runs for the ROSes. *Science*, **2005**, 308, 1875-6	33.3	25
111	Hypothalamic growth hormone receptor (GHR) controls hepatic glucose production in nutrient-sensing leptin receptor (LepRb) expressing neurons. *Molecular Metabolism*, **2017**, 6, 393-405	8.8	23
110	17-β estradiol ameliorates age-associated sarcopenia and improves late-life physical function in male mice but not in females or castrated males. *Aging Cell*, **2019**, 18, e12920	9.9	23
109	Age-related defects in the cytoskeleton signaling pathways of CD4 T cells. *Ageing Research Reviews*, **2011**, 10, 26-34	12	23

108	"Dividends" from research on aging--can biogerontologists, at long last, find something useful to do?. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2009**, 64, 157-60	6.4	23
107	Mechanisms of stress resistance in Snell dwarf mouse fibroblasts: enhanced antioxidant and DNA base excision repair capacity, but no differences in mitochondrial metabolism. *Free Radical Biology and Medicine*, **2009**, 46, 1109-18	7.8	23
106	Rapamycin Attenuates Age-associated Changes in Tibialis Anterior Tendon Viscoelastic Properties. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 858-65	6.4	23
105	Male lifespan extension with 17-α estradiol is linked to a sex-specific metabolomic response modulated by gonadal hormones in mice. *Aging Cell*, **2018**, 17, e12786	9.9	23
104	Age-related defects in moesin/ezrin cytoskeletal signals in mouse CD4 T cells. *Journal of Immunology*, **2007**, 179, 6403-9	5.3	22
103	Overactive mTOR signaling leads to endometrial hyperplasia in aged women and mice. *Oncotarget*, **2017**, 8, 7265-7275	3.3	21
102	Augmented autophagy pathways and MTOR modulation in fibroblasts from long-lived mutant mice. *Autophagy*, **2012**, 8, 1273-4	10.2	21
101	PohnB6F1: a cross of wild and domestic mice that is a new model of extended female reproductive life span. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2007**, 62, 1187-98	6.4	21
100	Differential effects of early-life nutrient restriction in long-lived GHR-KO and normal mice. *GeroScience*, **2017**, 39, 347-356	8.9	20
99	Comparative cellular biogerontology: primer and prospectus. *Ageing Research Reviews*, **2011**, 10, 181-90	12	20
98	Enhancement of CD8 T-cell function through modifying surface glycoproteins in young and old mice. *Immunology*, **2006**, 119, 187-94	7.8	20
97	Cluster formation by protein kinase Ctheta during murine T cell activation: effect of age. *Cellular Immunology*, **1999**, 195, 28-36	4.4	20
96	Calcium signal abnormalities in murine T lymphocytes that express the multidrug transporter P-glycoprotein. *Mechanisms of Ageing and Development*, **1999**, 107, 165-80	5.6	20
95	Genes against aging. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2012**, 67, 495-502	6.4	19
94	When will the biology of aging become useful? Future landmarks in biomedical gerontology. *Journal of the American Geriatrics Society*, **1997**, 45, 1258-67	5.6	19
93	Coordinated genetic control of neoplastic and nonneoplastic diseases in mice. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2002**, 57, B3-8	6.4	19
92	Long term rapamycin treatment improves mitochondrial DNA quality in aging mice. *Experimental Gerontology*, **2018**, 106, 125-131	4.5	18
91	Rapamycin-mediated mouse lifespan extension: Late-life dosage regimes with sex-specific effects. *Aging Cell*, **2020**, 19, e13269	9.9	17

90	How long will my mouse live? Machine learning approaches for prediction of mouse life span. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2008**, 63, 895-906	6.4	17
89	Quantitative trait locus mapping for age-related cataract severity and synechia prevalence using four-way cross mice. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 1922-9		17
88	Evaluating evidence for aging. *Science*, **2005**, 310, 441-3; author reply 441-3	33.3	17
87	Lifelong treatment with oral DHEA sulfate does not preserve immune function, prevent disease, or improve survival in genetically heterogeneous mice. *Journal of the American Geriatrics Society*, **1999** , 47, 960-6	5.6	17
86	Mitochondrial thioredoxin reductase 2 is elevated in long-lived primate as well as rodent species and extends fly mean lifespan. *Aging Cell*, **2017**, 16, 683-692	9.9	16
85	Cellular energetics and mitochondrial uncoupling in canine aging. *GeroScience*, **2019**, 41, 229-242	8.9	16
84	Loss of the Ubiquitin-conjugating Enzyme UBE2W Results in Susceptibility to Early Postnatal Lethality and Defects in Skin, Immune, and Male Reproductive Systems. *Journal of Biological Chemistry*, **2016**, 291, 3030-42	5.4	16
83	Improved mitochondrial stress response in long-lived Snell dwarf mice. *Aging Cell*, **2019**, 18, e13030	9.9	16
82	Direct and indirect effects of growth hormone receptor ablation on liver expression of xenobiotic metabolizing genes. *American Journal of Physiology - Endocrinology and Metabolism*, **2013**, 305, E942-50	6	16
81	The first international mini-symposium on methionine restriction and lifespan. *Frontiers in Genetics*, **2014**, 5, 122	4.5	15
80	Alleles that modulate late life hearing in genetically heterogeneous mice. *Neurobiology of Aging*, **2012**, 33, 1842.e15-29	5.6	15
79	Age-sensitive and -insensitive pathways leading to JNK activation in mouse CD4(+) T-cells. *Cellular Immunology*, **1999**, 197, 83-90	4.4	15
78	Increased mammalian target of rapamycin complex 2 signaling promotes age-related decline in CD4 T cell signaling and function. *Journal of Immunology*, **2013**, 191, 4648-55	5.3	14
77	Hyperglycemia, impaired glucose tolerance and elevated glycated hemoglobin levels in a long-lived mouse stock. *Experimental Gerontology*, **2005**, 40, 303-14	4.5	14
76	Biomarkers of aging. *Science of Aging Knowledge Environment: SAGE KE*, **2001**, 2001, pe2		14
75	Transient early food restriction leads to hypothalamic changes in the long-lived crowded litter female mice. *Physiological Reports*, **2015**, 3, e12379	2.6	13
74	Fibroblasts from long-lived rodent species exclude cadmium. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 10-9	6.4	12
73	Fibroblasts from long-lived species of mammals and birds show delayed, but prolonged, phosphorylation of ERK. *Aging Cell*, **2014**, 13, 283-91	9.9	11

72	Differential effects of delayed aging on phenotype and striatal pathology in a murine model of Huntington disease. *Journal of Neuroscience*, **2014**, 34, 15658-68	6.6	11
71	Quantitative trait loci modulate vertebral morphology and mechanical properties in a population of 18-month-old genetically heterogeneous mice. *Bone*, **2007**, 40, 433-43	4.7	11
70	CD43-independent augmentation of mouse T-cell function by glycoprotein cleaving enzymes. *Immunology*, **2006**, 119, 178-86	7.8	11
69	Genetic approaches to the study of aging. *Journal of the American Geriatrics Society*, **2005**, 53, S284-6	5.6	11
68	Canagliflozin extends life span in genetically heterogeneous male but not female mice. *JCI Insight*, **2020**, 5,	9.9	11
67	Cap-independent mRNA translation is upregulated in long-lived endocrine mutant mice. *Journal of Molecular Endocrinology*, **2019**, 63, 123-138	4.5	11
66	Age related increase in mTOR activity contributes to the pathological changes in ovarian surface epithelium. *Oncotarget*, **2016**, 7, 19214-27	3.3	11
65	A TORC1-histone axis regulates chromatin organisation and non-canonical induction of autophagy to ameliorate ageing. *ELife*, **2021**, 10,	8.9	11
64	Syntaxin 4 Overexpression Ameliorates Effects of Aging and High-Fat Diet on Glucose Control and Extends Lifespan. *Cell Metabolism*, **2015**, 22, 499-507	24.6	10
63	A glycoprotein endopeptidase enhances calcium influx and cytokine production by CD4+ T cells of old and young mice. *International Immunology*, **2005**, 17, 983-91	4.9	10
62	Biology of cancer and aging. *Cancer*, **1991**, 68, 2525-6	6.4	10
61	Defective calcium signal generation in a T cell subset that accumulates in old mice. *Annals of the New York Academy of Sciences*, **1989**, 568, 271-6	6.5	10
60	17-a-estradiol late in life extends lifespan in aging UM-HET3 male mice; nicotinamide riboside and three other drugs do not affect lifespan in either sex. *Aging Cell*, **2021**, 20, e13328	9.9	10
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