David A Sinclair

List of Publications by Citations

202 papers	49,961 citations	90 h-index	218 g-index
218 ext. papers	56,120 ext. citations	14.8 avg, IF	7.71 L-index

#	Paper	IF	Citations
202	Resveratrol improves health and survival of mice on a high-calorie diet. *Nature*, **2006**, 444, 337-42	50.4	3520
201	Small molecule activators of sirtuins extend Saccharomyces cerevisiae lifespan. *Nature*, **2003**, 425, 191-6	50.4	3055
200	Therapeutic potential of resveratrol: the in vivo evidence. *Nature Reviews Drug Discovery*, **2006**, 5, 493-506	64.1	2806
199	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
198	Stress-dependent regulation of FOXO transcription factors by the SIRT1 deacetylase. *Science*, **2004**, 303, 2011-5	33.3	2544
197	Calorie restriction promotes mammalian cell survival by inducing the SIRT1 deacetylase. *Science*, **2004**, 305, 390-2	33.3	1610
196	Sirtuin activators mimic caloric restriction and delay ageing in metazoans. *Nature*, **2004**, 430, 686-9	50.4	1574
195	Mammalian sirtuins: biological insights and disease relevance. *Annual Review of Pathology: Mechanisms of Disease*, **2010**, 5, 253-95	34	1472
194	Small molecule activators of SIRT1 as therapeutics for the treatment of type 2 diabetes. *Nature*, **2007**, 450, 712-6	50.4	1387
193	Sirtuins in mammals: insights into their biological function. *Biochemical Journal*, **2007**, 404, 1-13	3.8	1314
192	Extrachromosomal rDNA circles--a cause of aging in yeast. *Cell*, **1997**, 91, 1033-42	56.2	1185
191	SIRT1 is required for AMPK activation and the beneficial effects of resveratrol on mitochondrial function. *Cell Metabolism*, **2012**, 15, 675-90	24.6	1032
190	Resveratrol delays age-related deterioration and mimics transcriptional aspects of dietary restriction without extending life span. *Cell Metabolism*, **2008**, 8, 157-68	24.6	949
189	Declining NAD(+) induces a pseudohypoxic state disrupting nuclear-mitochondrial communication during aging. *Cell*, **2013**, 155, 1624-38	56.2	879
188	SIRT1 deacetylase protects against neurodegeneration in models for Alzheimer's disease and amyotrophic lateral sclerosis. *EMBO Journal*, **2007**, 26, 3169-79	13	865
187	Metformin improves healthspan and lifespan in mice. *Nature Communications*, **2013**, 4, 2192	17.4	822
186	Nutrient-sensitive mitochondrial NAD+ levels dictate cell survival. *Cell*, **2007**, 130, 1095-107	56.2	754

185	Inhibition of silencing and accelerated aging by nicotinamide, a putative negative regulator of yeast sir2 and human SIRT1. *Journal of Biological Chemistry*, **2002**, 277, 45099-107	5.4	754
184	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
183	SIRT1 redistribution on chromatin promotes genomic stability but alters gene expression during aging. *Cell*, **2008**, 135, 907-18	56.2	617
182	The intersection between aging and cardiovascular disease. *Circulation Research*, **2012**, 110, 1097-108	15.7	595
181	Nicotinamide and PNC1 govern lifespan extension by calorie restriction in Saccharomyces cerevisiae. *Nature*, **2003**, 423, 181-5	50.4	595
180	The ratio of macronutrients, not caloric intake, dictates cardiometabolic health, aging, and longevity in ad libitum-fed mice. *Cell Metabolism*, **2014**, 19, 418-30	24.6	572
179	Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic dose-response framework. *Toxicology and Applied Pharmacology*, **2007**, 222, 122-8	4.6	512
178	Acetylation of the C terminus of Ku70 by CBP and PCAF controls Bax-mediated apoptosis. *Molecular Cell*, **2004**, 13, 627-38	17.6	503
177	Evidence for a common mechanism of SIRT1 regulation by allosteric activators. *Science*, **2013**, 339, 1216-9	33.3	467
176	The SIRT1 deacetylase suppresses intestinal tumorigenesis and colon cancer growth. *PLoS ONE*, **2008**, 3, e2020	3.7	461
175	Toward a unified theory of caloric restriction and longevity regulation. *Mechanisms of Ageing and Development*, **2005**, 126, 987-1002	5.6	450
174	Sirtuin 1 and sirtuin 3: physiological modulators of metabolism. *Physiological Reviews*, **2012**, 92, 1479-514	47.9	417
173	Small molecule SIRT1 activators for the treatment of aging and age-related diseases. *Trends in Pharmacological Sciences*, **2014**, 35, 146-54	13.2	412
172	Slowing ageing by design: the rise of NAD and sirtuin-activating compounds. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 679-690	48.7	410
171	Regulation of the mPTP by SIRT3-mediated deacetylation of CypD at lysine 166 suppresses age-related cardiac hypertrophy. *Aging*, **2010**, 2, 914-23	5.6	397
170	Interventions to Slow Aging in Humans: Are We Ready?. *Aging Cell*, **2015**, 14, 497-510	9.9	373
169	Why does COVID-19 disproportionately affect older people?. *Aging*, **2020**, 12, 9959-9981	5.6	370
168	Molecular biology of aging. *Cell*, **1999**, 96, 291-302	56.2	366

167	SIRT1 is essential for normal cognitive function and synaptic plasticity. *Journal of Neuroscience*, **2010**, 30, 9695-707	6.6	365
166	Therapeutic Potential of NAD-Boosting Molecules: The In Vivo Evidence. *Cell Metabolism*, **2018**, 27, 529-547	24.6	332
165	Accelerated aging and nucleolar fragmentation in yeast sgs1 mutants. *Science*, **1997**, 277, 1313-6	33.3	331
164	Redistribution of silencing proteins from telomeres to the nucleolus is associated with extension of life span in S. cerevisiae. *Cell*, **1997**, 89, 381-91	56.2	325
163	MEC1-dependent redistribution of the Sir3 silencing protein from telomeres to DNA double-strand breaks. *Cell*, **1999**, 97, 609-20	56.2	288
162	The SIRT1 activator SRT1720 extends lifespan and improves health of mice fed a standard diet. *Cell Reports*, **2014**, 6, 836-43	10.6	275
161	NAD Replenishment Improves Lifespan and Healthspan in Ataxia Telangiectasia Models via Mitophagy and DNA Repair. *Cell Metabolism*, **2016**, 24, 566-581	24.6	273
160	Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. *European Heart Journal*, **2015**, 36, 3404-12	9.5	264
159	MSN2 and MSN4 link calorie restriction and TOR to sirtuin-mediated lifespan extension in Saccharomyces cerevisiae. *PLoS Biology*, **2007**, 5, e261	9.7	246
158	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. *Cell Metabolism*, **2016**, 23, 1093-1112	24.6	245
157	Manipulation of a nuclear NAD+ salvage pathway delays aging without altering steady-state NAD+ levels. *Journal of Biological Chemistry*, **2002**, 277, 18881-90	5.4	234
156	Xenohormesis: sensing the chemical cues of other species. *Cell*, **2008**, 133, 387-91	56.2	221
155	SRT1720 improves survival and healthspan of obese mice. *Scientific Reports*, **2011**, 1, 70	4.9	215
154	The role of nuclear architecture in genomic instability and ageing. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 692-702	48.7	208
153	Flavonoid apigenin is an inhibitor of the NAD+ ase CD38: implications for cellular NAD+ metabolism, protein acetylation, and treatment of metabolic syndrome. *Diabetes*, **2013**, 62, 1084-93	0.9	207
152	Impairment of an Endothelial NAD-HS Signaling Network Is a Reversible Cause of Vascular Aging. *Cell*, **2018**, 173, 74-89.e20	56.2	205
151	HST2 mediates SIR2-independent life-span extension by calorie restriction. *Science*, **2005**, 309, 1861-4	33.3	195
150	Sirtuin activators and inhibitors: Promises, achievements, and challenges. *Pharmacology & Therapeutics*, **2018**, 188, 140-154	13.9	186

149	Small molecules that regulate lifespan: evidence for xenohormesis. *Molecular Microbiology*, **2004**, 53, 1003-9	4.1	183
148	Longevity regulation in Saccharomyces cerevisiae: linking metabolism, genome stability, and heterochromatin. *Microbiology and Molecular Biology Reviews*, **2003**, 67, 376-99, table of contents	13.2	181
147	When stem cells grow old: phenotypes and mechanisms of stem cell aging. *Development (Cambridge)*, **2016**, 143, 3-14	6.6	180
146	NAD in Brain Aging and Neurodegenerative Disorders. *Cell Metabolism*, **2019**, 30, 630-655	24.6	178
145	Small-molecule allosteric activators of sirtuins. *Annual Review of Pharmacology and Toxicology*, **2014**, 54, 363-80	17.9	171
144	The enzyme CD38 (a NAD glycohydrolase, EC 3.2.2.5) is necessary for the development of diet-induced obesity. *FASEB Journal*, **2007**, 21, 3629-39	0.9	170
143	Selective Sirt2 inhibition by ligand-induced rearrangement of the active site. *Nature Communications*, **2015**, 6, 6263	17.4	169
142	Role of sirtuins in lifespan regulation is linked to methylation of nicotinamide. *Nature Chemical Biology*, **2013**, 9, 693-700	11.7	159
141	SRT2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. *Aging Cell*, **2014**, 13, 787-96	9.9	158
140	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. *Cell Metabolism*, **2018**, 27, 667-676.e4	24.6	152
139	Sirtuins and NAD in the Development and Treatment of Metabolic and Cardiovascular Diseases. *Circulation Research*, **2018**, 123, 868-885	15.7	151
138	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
137	SIRT2 induces the checkpoint kinase BubR1 to increase lifespan. *EMBO Journal*, **2014**, 33, 1438-53	13	148
136	Design, synthesis, and biological evaluation of sirtinol analogues as class III histone/protein deacetylase (Sirtuin) inhibitors. *Journal of Medicinal Chemistry*, **2005**, 48, 7789-95	8.3	147
135	Amino Acid Restriction Triggers Angiogenesis via GCN2/ATF4 Regulation of VEGF and HS Production. *Cell*, **2018**, 173, 117-129.e14	56.2	144
134	Aging in Saccharomyces cerevisiae. *Annual Review of Microbiology*, **1998**, 52, 533-60	17.5	144
133	Recombination-mediated lengthening of terminal telomeric repeats requires the Sgs1 DNA helicase. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 3174-9	11.5	143
132	Passage through stationary phase advances replicative aging in Saccharomyces cerevisiae. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 9100-5	11.5	140

131	Yeast life-span extension by calorie restriction is independent of NAD fluctuation. *Science*, **2003**, 302, 2124-2126	33.3	136
130	Inhibition of mammalian S6 kinase by resveratrol suppresses autophagy. *Aging*, **2009**, 1, 515-28	5.6	130
129	Germline energetics, aging, and female infertility. *Cell Metabolism*, **2013**, 17, 838-850	24.6	128
128	SIRT1 deacetylase in SF1 neurons protects against metabolic imbalance. *Cell Metabolism*, **2011**, 14, 301-12	24.6	128
127	Reprogramming to recover youthful epigenetic information and restore vision. *Nature*, **2020**, 588, 124-129	50.4	128
126	Sir-two-homolog 2 (Sirt2) modulates peripheral myelination through polarity protein Par-3/atypical protein kinase C (aPKC) signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E952-61	11.5	119
125	Aging-like phenotype and defective lineage specification in SIRT1-deleted hematopoietic stem and progenitor cells. *Stem Cell Reports*, **2014**, 3, 44-59	8	109
124	Berberine protects against high fat diet-induced dysfunction in muscle mitochondria by inducing SIRT1-dependent mitochondrial biogenesis. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 185-95	6.9	109
123	SIRT1 protects the heart from ER stress-induced cell death through eIF2□deacetylation. *Cell Death and Differentiation*, **2017**, 24, 343-356	12.7	108
122	Nicotinamide mononucleotide (NMN) supplementation rescues cerebromicrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. *Redox Biology*, **2019**, 24, 101192	11.3	108
121	Targeting mitochondria for cardiovascular disorders: therapeutic potential and obstacles. *Nature Reviews Cardiology*, **2019**, 16, 33-55	14.8	104
120	A conserved NAD binding pocket that regulates protein-protein interactions during aging. *Science*, **2017**, 355, 1312-1317	33.3	102
119	Negative regulation of STAT3 protein-mediated cellular respiration by SIRT1 protein. *Journal of Biological Chemistry*, **2011**, 286, 19270-9	5.4	96
118	Molecular mechanisms of yeast aging. *Trends in Biochemical Sciences*, **1998**, 23, 131-4	10.3	96
117	Biochemical characterization, localization, and tissue distribution of the longer form of mouse SIRT3. *Protein Science*, **2009**, 18, 514-25	6.3	93
116	The Sirt1 activator SRT3025 provides atheroprotection in Apoe-/- mice by reducing hepatic Pcsk9 secretion and enhancing Ldlr expression. *European Heart Journal*, **2015**, 36, 51-9	9.5	92
115	Unlocking the secrets of longevity genes. *Scientific American*, **2006**, 294, 48-51, 54-7	0.5	92
114	Nampt/PBEF/Visfatin: a regulator of mammalian health and longevity?. *Experimental Gerontology*, **2006**, 41, 718-26	4.5	91

113	Design and synthesis of compounds that extend yeast replicative lifespan. *Aging Cell*, **2007**, 6, 35-43	9.9	90
112	Identification of a SIRT1 mutation in a family with type 1 diabetes. *Cell Metabolism*, **2013**, 17, 448-455	24.6	83
111	SIRT1 mRNA expression may be associated with energy expenditure and insulin sensitivity. *Diabetes* , **2010**, 59, 829-35	0.9	83
110	The lifespan extension effects of resveratrol are conserved in the honey bee and may be driven by a mechanism related to caloric restriction. *Aging*, **2012**, 4, 499-508	5.6	78
109	Manipulation of a nuclear NAD+ salvage pathway delays aging without altering steady-state NAD+ levels.. *Journal of Biological Chemistry*, **2013**, 288, 24160	5.4	78
108	Why NAD(+) Declines during Aging: It's Destroyed. *Cell Metabolism*, **2016**, 23, 965-966	24.6	75
107	NAD Repletion Rescues Female Fertility during Reproductive Aging. *Cell Reports*, **2020**, 30, 1670-1681.e7	10.6	74
106	Mitohormesis and metabolic health: The interplay between ROS, cAMP and sirtuins. *Free Radical Biology and Medicine*, **2019**, 141, 483-491	7.8	73
105	Resveratrol accelerates erythroid maturation by activation of FoxO3 and ameliorates anemia in beta-thalassemic mice. *Haematologica*, **2014**, 99, 267-75	6.6	73
104	Dietary restriction involves NAD+ -dependent mechanisms and a shift toward oxidative metabolism. *Aging Cell*, **2014**, 13, 1075-85	9.9	71
103	Type 5 adenylyl cyclase increases oxidative stress by transcriptional regulation of manganese superoxide dismutase via the SIRT1/FoxO3a pathway. *Circulation*, **2013**, 127, 1692-701	16.7	71
102	Paradigms and pitfalls of yeast longevity research. *Mechanisms of Ageing and Development*, **2002**, 123, 857-67	5.6	70
101	JNK Phosphorylates SIRT6 to Stimulate DNA Double-Strand Break Repair in Response to Oxidative Stress by Recruiting PARP1 to DNA Breaks. *Cell Reports*, **2016**, 16, 2641-2650	10.6	70
100	Epigenetic changes during aging and their reprogramming potential. *Critical Reviews in Biochemistry and Molecular Biology*, **2019**, 54, 61-83	8.7	68
99	Resveratrol inhibits pathologic retinal neovascularization in Vldlr(-/-) mice **2011**, 52, 2809-16		65
98	The ageing epigenome: damaged beyond repair?. *Ageing Research Reviews*, **2009**, 8, 189-98	12	62
97	Comparing the Effects of Low-Protein and High-Carbohydrate Diets and Caloric Restriction on Brain Aging in Mice. *Cell Reports*, **2018**, 25, 2234-2243.e6	10.6	57
96	Dietary restriction: standing up for sirtuins. *Science*, **2010**, 329, 1012-3; author reply 1013-4	33.3	56

95	Sirtuins: a conserved key unlocking AceCS activity. *Trends in Biochemical Sciences*, **2007**, 32, 1-4	10.3	54
94	Resveratrol Improves Vascular Function and Mitochondrial Number but Not Glucose Metabolism in Older Adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 1703-1709	6.4	52
93	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease. *Cell Metabolism*, **2019**, 29, 1274-1290.e9	24.6	50
92	Restoration of normal embryogenesis by mitochondrial supplementation in pig oocytes exhibiting mitochondrial DNA deficiency. *Scientific Reports*, **2016**, 6, 23229	4.9	50
91	Prolyl isomerase Pin1 regulates neuronal differentiation via β-catenin. *Molecular and Cellular Biology*, **2012**, 32, 2966-78	4.8	49
90	C. elegans lifespan extension by osmotic stress requires FUdR, base excision repair, FOXO, and sirtuins. *Mechanisms of Ageing and Development*, **2016**, 154, 30-42	5.6	47
89	A high-confidence interaction map identifies SIRT1 as a mediator of acetylation of USP22 and the SAGA coactivator complex. *Molecular and Cellular Biology*, **2013**, 33, 1487-502	4.8	47
88	Geroncogenesis: metabolic changes during aging as a driver of tumorigenesis. *Cancer Cell*, **2014**, 25, 12-9	24.3	46
87	Head to Head Comparison of Short-Term Treatment with the NAD(+) Precursor Nicotinamide Mononucleotide (NMN) and 6 Weeks of Exercise in Obese Female Mice. *Frontiers in Pharmacology*, **2016**, 7, 258	5.6	46
86	The role of protein arginine methylation in the formation of silent chromatin. *Genes and Development*, **2006**, 20, 3249-54	12.6	41
85	Biomarkers of biological age as predictors of COVID-19 disease severity. *Aging*, **2020**, 12, 6490-6491	5.6	40
84	Frailty biomarkers in humans and rodents: Current approaches and future advances. *Mechanisms of Ageing and Development*, **2019**, 180, 117-128	5.6	38
83	Nicotinamide mononucleotide (NMN) supplementation ameliorates the impact of maternal obesity in mice: comparison with exercise. *Scientific Reports*, **2017**, 7, 15063	4.9	38
82	Sir2 histone deacetylase prevents programmed cell death caused by sustained activation of the Hog1 stress-activated protein kinase. *EMBO Reports*, **2011**, 12, 1062-8	6.5	38
81	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. *Aging Cell*, **2009**, 8, 140-51	9.9	33
80	Controlled DNA double-strand break induction in mice reveals post-damage transcriptome stability. *Nucleic Acids Research*, **2016**, 44, e64	20.1	32
79	Characterization of murine SIRT3 transcript variants and corresponding protein products. *Journal of Cellular Biochemistry*, **2010**, 111, 1051-8	4.7	31
78	Cloning, and molecular characterization of the GCV1 gene encoding the glycine cleavage T-protein from Saccharomyces cerevisiae. *Gene*, **1997**, 186, 13-20	3.8	31

77	Age and life expectancy clocks based on machine learning analysis of mouse frailty. *Nature Communications*, **2020**, 11, 4618	17.4	31
76	Quantifying the cellular NAD+ metabolome using a tandem liquid chromatography mass spectrometry approach. *Metabolomics*, **2017**, 14, 15	4.7	29
75	Life-span extension in yeast. *Science*, **2006**, 312, 195-7; author reply 195-7	33.3	29
74	Impact papers on aging in 2009. *Aging*, **2010**, 2, 111-21	5.6	29
73	SIRT1 Limits Adipocyte Hyperplasia through c-Myc Inhibition. *Journal of Biological Chemistry*, **2016**, 291, 2119-35	5.4	27
72	Neuronal sirtuin1 mediates retinal vascular regeneration in oxygen-induced ischemic retinopathy. *Angiogenesis*, **2013**, 16, 985-92	10.6	26
71	Specific induction by glycine of the gene for the P-subunit of glycine decarboxylase from Saccharomyces cerevisiae. *Molecular Microbiology*, **1996**, 19, 611-23	4.1	26
70	Skeletal muscle overexpression of nicotinamide phosphoribosyl transferase in mice coupled with voluntary exercise augments exercise endurance. *Molecular Metabolism*, **2018**, 7, 1-11	8.8	25
69	Dynamic Acetylation of Phosphoenolpyruvate Carboxykinase Toggles Enzyme Activity between Gluconeogenic and Anaplerotic Reactions. *Molecular Cell*, **2018**, 71, 718-732.e9	17.6	25
68	Sex differences in the response to dietary restriction in rodents. *Current Opinion in Physiology*, **2018**, 6, 28-34	2.6	23
67	What is Xenohormesis?. *American Journal of Pharmacology and Toxicology*, **2008**, 3, 152-159	0.6	22
66	Enhanced longevity and metabolism by brown adipose tissue with disruption of the regulator of G protein signaling 14. *Aging Cell*, **2018**, 17, e12751	9.9	21
65	The economic value of targeting aging. *Nature Aging*, **2021**, 1, 616-623		21
64	Role of the N-terminal region of Rap1p in the transcriptional activation of glycolytic genes in Saccharomyces cerevisiae. *Yeast*, **2004**, 21, 851-66	3.4	18
63	Barrier-to-autointegration factor 1 (Banf1) regulates poly [ADP-ribose] polymerase 1 (PARP1) activity following oxidative DNA damage. *Nature Communications*, **2019**, 10, 5501	17.4	18
62	Measurement of sirtuin enzyme activity using a substrate-agnostic fluorometric nicotinamide assay. *Methods in Molecular Biology*, **2013**, 1077, 167-77	1.4	17
61	Carboxamide SIRT1 inhibitors block DBC1 binding via an acetylation-independent mechanism. *Cell Cycle*, **2013**, 12, 2233-40	4.7	17
60	Sirtuin1 over-expression does not impact retinal vascular and neuronal degeneration in a mouse model of oxygen-induced retinopathy. *PLoS ONE*, **2014**, 9, e85031	3.7	17

59	TPE or not TPE? It's no longer a question. *Trends in Pharmacological Sciences*, **2002**, 23, 1-4	13.2	16
58	The "metabolic winter" hypothesis: a cause of the current epidemics of obesity and cardiometabolic disease. *Metabolic Syndrome and Related Disorders*, **2014**, 12, 355-61	2.6	15
57	The Sirt1 activator SRT3025 expands hematopoietic stem and progenitor cells and improves hematopoiesis in Fanconi anemia mice. *Stem Cell Research*, **2015**, 15, 130-40	1.6	15
56	Analysis of 41 cancer cell lines reveals excessive allelic loss and novel mutations in the SIRT1 gene. *Cell Cycle*, **2013**, 12, 263-70	4.7	15
55	Studying the replicative life span of yeast cells. *Methods in Molecular Biology*, **2013**, 1048, 49-63	1.4	14
54	Mitochondrial and metabolic dysfunction in ageing and age-related diseases.. *Nature Reviews Endocrinology*, **2022**,	15.2	14
53	Quantitative proteomic analysis of extracellular vesicle subgroups isolated by an optimized method combining polymer-based precipitation and size exclusion chromatography. *Journal of Extracellular Vesicles*, **2021**, 10, e12087	16.4	14
52	GLTSCR2/PICT1 links mitochondrial stress and Myc signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 3781-6	11.5	13
51	Control of expression of one-carbon metabolism genes of Saccharomyces cerevisiae is mediated by a tetrahydrofolate-responsive protein binding to a glycine regulatory region including a core 5PCTTCTT-3Pmotif. *Journal of Biological Chemistry*, **1999**, 274, 10523-32	5.4	13
50	Nicotinamide impairs entry into and exit from meiosis I in mouse oocytes. *PLoS ONE*, **2015**, 10, e0126194	3.7	13
49	Voluntary exercise normalizes the proteomic landscape in muscle and brain and improves the phenotype of progeroid mice. *Aging Cell*, **2019**, 18, e13029	9.9	12
48	Oogonial stem cells as a model to study age-associated infertility in women. *Reproduction, Fertility and Development*, **2015**, 27, 969-74	1.8	11
47	Can artificial intelligence identify effective COVID-19 therapies?. *EMBO Molecular Medicine*, **2020**, 12, e12817	12	11
46	ARDD 2020: from aging mechanisms to interventions. *Aging*, **2020**, 12, 24484-24503	5.6	11
45	Combining a High Dose of Metformin With the SIRT1 Activator, SRT1720, Reduces Life Span in Aged Mice Fed a High-Fat Diet. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2020**, 75, 2037-2041	6.4	10
44	The longevity of sirtuins. *Cell Reports*, **2012**, 2, 1473-4	10.6	10
43	Restoring stem cells - all you need is NAD(.). *Cell Research*, **2016**, 26, 971-2	24.7	9
42	Reversal of ageing- and injury-induced vision loss by Tet-dependent epigenetic reprogramming		9

41	Caloric restriction and life span determination of yeast cells. *Methods in Molecular Biology*, **2007**, 371, 97-109	1.4	9
40	Longitudinal analysis of biomarker data from a personalized nutrition platform in healthy subjects. *Scientific Reports*, **2018**, 8, 14685	4.9	9
39	Oxidative Priority, Meal Frequency, and the Energy Economy of Food and Activity: Implications for Longevity, Obesity, and Cardiometabolic Disease. *Metabolic Syndrome and Related Disorders*, **2017**, 15, 6-17	2.6	8
38	Cell biology. An age of instability. *Science*, **2003**, 301, 1859-60	33.3	8
37	Impacts of obesity, maternal obesity and nicotinamide mononucleotide supplementation on sperm quality in mice. *Reproduction*, **2019**, 158, 169-179	3.8	7
36	NAD in COVID-19 and viral infections.. *Trends in Immunology*, **2022**,	14.4	7
35	Administration of Nicotinamide Mononucleotide (NMN) Reduces Metabolic Impairment in Male Mouse Offspring from Obese Mothers. *Cells*, **2020**, 9,	7.9	7
34	Molecular and Cellular Characterization of SIRT1 Allosteric Activators. *Methods in Molecular Biology*, **2019**, 1983, 133-149	1.4	6
33	DNA Break-Induced Epigenetic Drift as a Cause of Mammalian Aging		6
32	Erosion of the Epigenetic Landscape and Loss of Cellular Identity as a Cause of Aging in Mammals		6
31	Harvard HIV and Aging Workshop: Perspectives and Priorities from Claude D. Pepper Centers and Centers for AIDS Research. *AIDS Research and Human Retroviruses*, **2019**, 35, 999-1012	1.6	5
30	SIRT2 controls the pentose phosphate switch. *EMBO Journal*, **2014**, 33, 1287-8	13	5
29	The Aging Liver and the Effects of Long Term Caloric Restriction **2010**, 191-216		5
28	Neuroprotective effects and mechanisms of action of nicotinamide mononucleotide (NMN) in a photoreceptor degenerative model of retinal detachment. *Aging*, **2020**, 12, 24504-24521	5.6	5
27	The elusive NMN transporter is found. *Nature Metabolism*, **2019**, 1, 8-9	14.6	5
26	Nicotinamide mononucleotide (NMN) deamidation by the gut microbiome and evidence for indirect upregulation of the NAD+metabolome		4
25	Assays for NAD-Dependent Reactions and NAD Metabolites. *Methods in Molecular Biology*, **2018**, 1813, 77-90	1.4	3
24	Sirtuins in Aging and Age-Related Diseases **2011**, 243-274		3

23	Gut Microbiota Predicts Healthy Late-Life Aging in Male Mice. *Nutrients*, **2021**, 13,	6.7	3
22	Multiple basal cell carcinomas in a patient with myotonic dystrophy type 1. *BMJ Case Reports*, **2019**, 12,	0.9	2
21	Sirtuin Activation by Small Molecules **2016**, 243-266		2
20	Reduced Levels of NAD in Skeletal Muscle and Increased Physiologic Frailty Are Associated With Viral Coinfection in Asymptomatic Middle-Aged Adults.. *Journal of Acquired Immune Deficiency Syndromes (1999)*, **2022**, 89, S15-S22	3.1	2
19	Ultra-cheap and scalable epigenetic age predictions with TIME-Seq		2
18	The Soluble Adenylyl Cyclase Inhibitor LRE1 Prevents Hepatic Ischemia/Reperfusion Damage Through Improvement of Mitochondrial Function. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
17	Extracellular Vesicles for the Treatment of Radiation-Induced Normal Tissue Toxicity in the Lung. *Frontiers in Oncology*, **2020**, 10, 602763	5.3	2
16	Dietary Restriction, Hormesis, and Small Molecule Mimetics **2005**, 63-104		1
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