David A Sinclair

List of Publications by Year
in descending order

204 papers	61,314 citations	2669 95 h-index	2812 191 g-index
218 all docs	218 docs citations	218 times ranked	54015 citing authors

#	Article	IF	Citations
1	Resveratrol improves health and survival of mice on a high-calorie diet. Nature, 2006, 444, 337-342.	13.7	3,882
2	Small molecule activators of sirtuins extend Saccharomyces cerevisiae lifespan. Nature, 2003, 425, 191-196.	13.7	3,450
3	Therapeutic potential of resveratrol: the in vivo evidence. Nature Reviews Drug Discovery, 2006, 5, 493-506.	21.5	3,283
4	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
5	Stress-Dependent Regulation of FOXO Transcription Factors by the SIRT1 Deacetylase. Science, 2004, 303, 2011-2015.	6.0	2,913
6	Calorie Restriction Promotes Mammalian Cell Survival by Inducing the SIRT1 Deacetylase. Science, 2004, 305, 390-392.	6.0	1,784
7	Sirtuin activators mimic caloric restriction and delay ageing in metazoans. Nature, 2004, 430, 686-689.	13.7	1,742
8	Mammalian Sirtuins: Biological Insights and Disease Relevance. Annual Review of Pathology: Mechanisms of Disease, 2010, 5, 253-295.	9.6	1,742
9	Small molecule activators of SIRT1 as therapeutics for the treatment of type 2 diabetes. Nature, 2007, 450, 712-716.	13.7	1,565
10	Sirtuins in mammals: insights into their biological function. Biochemical Journal, 2007, 404, 1-13.	1.7	1,503
11	Extrachromosomal rDNA Circlesâ€" A Cause of Aging in Yeast. Cell, 1997, 91, 1033-1042.	13.5	1,394
12	SIRT1 Is Required for AMPK Activation and the Beneficial Effects of Resveratrol on Mitochondrial Function. Cell Metabolism, 2012, 15, 675-690.	7.2	1,251
13	Declining NAD+ Induces a Pseudohypoxic State Disrupting Nuclear-Mitochondrial Communication during Aging. Cell, 2013, 155, 1624-1638.	13.5	1,134
14	Metformin improves healthspan and lifespan in mice. Nature Communications, 2013, 4, 2192.	5.8	1,118
15	Resveratrol Delays Age-Related Deterioration and Mimics Transcriptional Aspects of Dietary Restriction without Extending Life Span. Cell Metabolism, 2008, 8, 157-168.	7.2	1,060
16	SIRT1 deacetylase protects against neurodegeneration in models for Alzheimer's disease and amyotrophic lateral sclerosis. EMBO Journal, 2007, 26, 3169-3179.	3.5	982
17	The Intersection Between Aging and Cardiovascular Disease. Circulation Research, 2012, 110, 1097-1108.	2.0	980
18	Inhibition of Silencing and Accelerated Aging by Nicotinamide, a Putative Negative Regulator of Yeast Sir2 and Human SIRT1. Journal of Biological Chemistry, 2002, 277, 45099-45107.	1.6	864

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19	Nutrient-Sensitive Mitochondrial NAD+ Levels Dictate Cell Survival. Cell, 2007, 130, 1095-1107.	13.5	855
20	Rapamycin, But Not Resveratrol or Simvastatin, Extends Life Span of Genetically Heterogeneous Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 191-201.	1.7	774
21	The Ratio of Macronutrients, Not Caloric Intake, Dictates Cardiometabolic Health, Aging, and Longevity in Ad Libitum-Fed Mice. Cell Metabolism, 2014, 19, 418-430.	7.2	768
22	SIRT1 Redistribution on Chromatin Promotes Genomic Stability but Alters Gene Expression during Aging. Cell, 2008, 135, 907-918.	13.5	756
23	Why does COVID-19 disproportionately affect older people?. Aging, 2020, 12, 9959-9981.	1.4	708
24	Nicotinamide and PNC1 govern lifespan extension by calorie restriction in Saccharomyces cerevisiae. Nature, 2003, 423, 181-185.	13.7	671
25	Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic doseâ€“response framework. Toxicology and Applied Pharmacology, 2007, 222, 122-128.	1.3	631
26	Slowing ageing by design: the rise of NAD+ and sirtuin-activating compounds. Nature Reviews Molecular Cell Biology, 2016, 17, 679-690.	16.1	583
27	Therapeutic Potential of NAD-Boosting Molecules: The InÂVivo Evidence. Cell Metabolism, 2018, 27, 529-547.	7.2	565
28	Sirtuin 1 and Sirtuin 3: Physiological Modulators of Metabolism. Physiological Reviews, 2012, 92, 1479-1514.	13.1	551
29	Acetylation of the C Terminus of Ku70 by CBP and PCAF Controls Bax-Mediated Apoptosis. Molecular Cell, 2004, 13, 627-638.	4.5	550
30	Evidence for a Common Mechanism of SIRT1 Regulation by Allosteric Activators. Science, 2013, 339, 1216-1219.	6.0	538
31	Toward a unified theory of caloric restriction and longevity regulation. Mechanisms of Ageing and Development, 2005, 126, 987-1002.	2.2	516
32	The SIRT1 Deacetylase Suppresses Intestinal Tumorigenesis and Colon Cancer Growth. PLoS ONE, 2008, 3, e2020.	1.1	516
33	Molecular Biology of Aging. Cell, 1999, 96, 291-302.	13.5	492
34	Small molecule SIRT1 activators for the treatment of aging and age-related diseases. Trends in Pharmacological Sciences, 2014, 35, 146-154.	4.0	485
35	Interventions to Slow Aging in Humans: Are We Ready?. Aging Cell, 2015, 14, 497-510.	3.0	481
36	Regulation of the mPTP by SIRT3-mediated deacetylation of CypD at lysine 166 suppresses age-related cardiac hypertrophy. Aging, 2010, 2, 914-923.	1.4	462

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37	SIRT1 Is Essential for Normal Cognitive Function and Synaptic Plasticity. Journal of Neuroscience, 2010, 30, 9695-9707.	1.7	452
38	Reprogramming to recover youthful epigenetic information and restore vision. Nature, 2020, 588, 124-129.	13.7	424
39	NAD + Replenishment Improves Lifespan and Healthspan in Ataxia Telangiectasia Models via Mitophagy and DNA Repair. Cell Metabolism, 2016, 24, 566-581.	7.2	420
40	NAD+ in Brain Aging and Neurodegenerative Disorders. Cell Metabolism, 2019, 30, 630-655.	7.2	412
41	Accelerated Aging and Nucleolar Fragmentation in Yeast sgs1 Mutants. Science, 1997, 277, 1313-1316.	6.0	394
42	Redistribution of Silencing Proteins from Telomeres to the Nucleolus Is Associated with Extension of Life Span in S. cerevisiae. Cell, 1997, 89, 381-391.	13.5	368
43	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. Cell Metabolism, 2016, 23, 1093-1112.	7.2	360
44	Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. European Heart Journal, 2015, 36, 3404-3412.	1.0	354
45	The SIRT1 Activator SRT1720 Extends Lifespan and Improves Health of Mice Fed a Standard Diet. Cell Reports, 2014, 6, 836-843.	2.9	342
46	Impairment of an Endothelial NAD+-H2S Signaling Network Is a Reversible Cause of Vascular Aging. Cell, 2018, 173, 74-89.e20.	13.5	333
47	MEC1-Dependent Redistribution of the Sir3 Silencing Protein from Telomeres to DNA Double-Strand Breaks. Cell, 1999, 97, 609-620.	13.5	323
48	Sirtuin activators and inhibitors: Promises, achievements, and challenges. , 2018, 188, 140-154.		321
49	Sirtuins and NAD ⁺ in the Development and Treatment of Metabolic and Cardiovascular Diseases. Circulation Research, 2018, 123, 868-885.	2.0	276
50	MSN2 and MSN4 Link Calorie Restriction and TOR to Sirtuin-Mediated Lifespan Extension in Saccharomyces cerevisiae. PLoS Biology, 2007, 5, e261.	2.6	273
51	Manipulation of a Nuclear NAD+ Salvage Pathway Delays Aging without Altering Steady-state NAD+ Levels. Journal of Biological Chemistry, 2002, 277, 18881-18890.	1.6	269
52	Flavonoid Apigenin Is an Inhibitor of the NAD+ase CD38. Diabetes, 2013, 62, 1084-1093.	0.3	269
53	When stem cells grow old: phenotypes and mechanisms of stem cell aging. Development (Cambridge), 2016, 143, 3-14.	1.2	267
54	Xenohormesis: Sensing the Chemical Cues of Other Species. Cell, 2008, 133, 387-391.	13.5	259

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55	The role of nuclear architecture in genomic instability and ageing. Nature Reviews Molecular Cell Biology, 2007, 8, 692-702.	16.1	256
56	SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70.	1.6	249
57	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. Cell Metabolism, 2018, 27, 667-676.e4.	7.2	242
58	Amino Acid Restriction Triggers Angiogenesis via GCN2/ATF4 Regulation of VEGF and H2S Production. Cell, 2018, 173, 117-129.e14.	13.5	229
59	Mitochondrial and metabolic dysfunction in ageing and age-related diseases. Nature Reviews Endocrinology, 2022, 18, 243-258.	4.3	225
60	Selective Sirt2 inhibition by ligand-induced rearrangement of the active site. Nature Communications, 2015, 6, 6263.	5.8	222
61	Small molecules that regulate lifespan: evidence for xenohormesis. Molecular Microbiology, 2004, 53, 1003-1009.	1.2	221
62	HST2 Mediates SIR2-Independent Life-Span Extension by Calorie Restriction. Science, 2005, 309, 1861-1864.	6.0	213
63	The enzyme CD38 (a NAD glycohydrolase, EC 3.2.2.5) is necessary for the development of dietâ€induced obesity. FASEB Journal, 2007, 21, 3629-3639.	0.2	211
64	<scp>SRT</scp> 2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. Aging Cell, 2014, 13, 787-796.	3.0	208
65	Longevity Regulation in Saccharomyces cerevisiae: Linking Metabolism, Genome Stability, and Heterochromatin. Microbiology and Molecular Biology Reviews, 2003, 67, 376-399.	2.9	207
66	Role of sirtuins in lifespan regulation is linked to methylation of nicotinamide. Nature Chemical Biology, 2013, 9, 693-700.	3.9	203
67	Small-Molecule Allosteric Activators of Sirtuins. Annual Review of Pharmacology and Toxicology, 2014, 54, 363-380.	4.2	199
68	<scp>SIRT</scp>2 induces the checkpoint kinase BubR1 to increase lifespan. EMBO Journal, 2014, 33, 1438-1453.	3.5	195
69	Targeting mitochondria for cardiovascular disorders: therapeutic potential and obstacles. Nature Reviews Cardiology, 2019, 16, 33-55.	6.1	188
70	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.	1.7	182
71	Nicotinamide mononucleotide (NMN) supplementation rescues cerebromicrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. Redox Biology, 2019, 24, 101192.	3.9	181
72	Epigenetic changes during aging and their reprogramming potential. Critical Reviews in Biochemistry and Molecular Biology, 2019, 54, 61-83.	2.3	176

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73	NAD+ Repletion Rescues Female Fertility during Reproductive Aging. Cell Reports, 2020, 30, 1670-1681.e7.	2.9	169
74	Germline Energetics, Aging, and Female Infertility. Cell Metabolism, 2013, 17, 838-850.	7.2	166
75	AGING INSACCHAROMYCES CEREVISIAE. Annual Review of Microbiology, 1998, 52, 533-560.	2.9	164
76	Design, Synthesis, and Biological Evaluation of Sirtinol Analogues as Class III Histone/Protein Deacetylase (Sirtuin) Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 7789-7795.	2.9	159
77	SIRT1 protects the heart from ER stress-induced cell death through eIF2Î± deacetylation. Cell Death and Differentiation, 2017, 24, 343-356.	5.0	159
78	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, 3174-3179.	3.3	155
79	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, 185-195.	1.8	155
80	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, 9100-9105.	3.3	152
81	Yeast Life-Span Extension by Calorie Restriction Is Independent of NAD Fluctuation. Science, 2003, 302, 2124-2126.	6.0	152
82	Inhibition of mammalian S6 kinase by resveratrol suppresses autophagy. Aging, 2009, 1, 515-528.	1.4	146
83	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.	3.3	142
84	A conserved NAD ⁺ binding pocket that regulates protein-protein interactions during aging. Science, 2017, 355, 1312-1317.	6.0	140
85	SIRT1 Deacetylase in SF1 Neurons Protects against Metabolic Imbalance. Cell Metabolism, 2011, 14, 301-312.	7.2	138
86	Aging-like Phenotype and Defective Lineage Specification in SIRT1-Deleted Hematopoietic Stem and Progenitor Cells. Stem Cell Reports, 2014, 3, 44-59.	2.3	135
87	Biochemical characterization, localization, and tissue distribution of the longer form of mouse SIRT3. Protein Science, 2009, 18, 514-525.	3.1	126
88	Unlocking the Secrets of Longevity Genes. Scientific American, 2006, 294, 48-57.	1.0	118
89	The Sirt1 activator SRT3025 provides atheroprotection in Apoeâ˜/â˜ mice by reducing hepatic Pcsk9 secretion and enhancing Ldlr expression. European Heart Journal, 2015, 36, 51-59.	1.0	117
90	Negative Regulation of STAT3 Protein-mediated Cellular Respiration by SIRT1 Protein. Journal of Biological Chemistry, 2011, 286, 19270-19279.	1.6	115

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91	Mitohormesis and metabolic health: The interplay between ROS, cAMP and sirtuins. Free Radical Biology and Medicine, 2019, 141, 483-491.	1.3	115
92	Molecular mechanisms of yeast aging. Trends in Biochemical Sciences, 1998, 23, 131-134.	3.7	110
93	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease. Cell Metabolism, 2019, 29, 1274-1290.e9.	7.2	106
94	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.	2.9	104
95	Identification of a SIRT1 Mutation in a Family with Type 1 Diabetes. Cell Metabolism, 2013, 17, 448-455.	7.2	103
96	Why NAD + Declines during Aging: Itâ€™s Destroyed. Cell Metabolism, 2016, 23, 965-966.	7.2	103
97	Design and synthesis of compounds that extend yeast replicative lifespan. Aging Cell, 2007, 6, 35-43.	3.0	102
98	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.	2.9	102
99	Nampt/PBEF/Visfatin: A regulator of mammalian health and longevity?. Experimental Gerontology, 2006, 41, 718-726.	1.2	99
100	SIRT1 mRNA Expression May Be Associated With Energy Expenditure and Insulin Sensitivity. Diabetes, 2010, 59, 829-835.	0.3	93
101	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.	1.4	91
102	Resveratrol accelerates erythroid maturation by activation of FoxO3 and ameliorates anemia in beta-thalassemic mice. Haematologica, 2014, 99, 267-275.	1.7	89
103	The economic value of targeting aging. Nature Aging, 2021, 1, 616-623.	5.3	85
104	Type 5 Adenylyl Cyclase Increases Oxidative Stress by Transcriptional Regulation of Manganese Superoxide Dismutase via the SIRT1/FoxO3a Pathway. Circulation, 2013, 127, 1692-1701.	1.6	82
105	Dietary restriction involves NAD + â€dependent mechanisms and a shift toward oxidative metabolism. Aging Cell, 2014, 13, 1075-1085.	3.0	81
106	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.	1.7	79
107	Paradigms and pitfalls of yeast longevity research. Mechanisms of Ageing and Development, 2002, 123, 857-867.	2.2	78
108	The ageing epigenome: Damaged beyond repair?. Ageing Research Reviews, 2009, 8, 189-198.	5.0	77

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109	Resveratrol Inhibits Pathologic Retinal Neovascularization in<i>Vldlr</i>^{â^'/â^'}<i>Mice</i>. , 2011, 52, 2809.		76
110	C. elegans lifespan extension by osmotic stress requires FUdR, base excision repair, FOXO, and sirtuins. Mechanisms of Ageing and Development, 2016, 154, 30-42.	2.2	76
111	Age and life expectancy clocks based on machine learning analysis of mouse frailty. Nature Communications, 2020, 11, 4618.	5.8	75
112	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.	1.6	72
113	Frailty biomarkers in humans and rodents: Current approaches and future advances. Mechanisms of Ageing and Development, 2019, 180, 117-128.	2.2	66
114	Restoration of normal embryogenesis by mitochondrial supplementation in pig oocytes exhibiting mitochondrial DNA deficiency. Scientific Reports, 2016, 6, 23229.	1.6	65
115	Dietary Restriction: Standing Up for Sirtuins. Science, 2010, 329, 1012-1013.	6.0	63
116	Sirtuins: a conserved key unlocking AceCS activity. Trends in Biochemical Sciences, 2007, 32, 1-4.	3.7	59
117	Nicotinamide mononucleotide (NMN) supplementation ameliorates the impact of maternal obesity in mice: comparison with exercise. Scientific Reports, 2017, 7, 15063.	1.6	59
118	Sex differences in the response to dietary restriction in rodents. Current Opinion in Physiology, 2018, 6, 28-34.	0.9	59
119	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, 1487-1502.	1.1	58
120	Quantitative proteomic analysis of extracellular vesicle subgroups isolated by an optimized method combining polymerâ€based precipitation and size exclusion chromatography. Journal of Extracellular Vesicles, 2021, 10, e12087.	5.5	55
121	Prolyl Isomerase Pin1 Regulates Neuronal Differentiation via Î²-Catenin. Molecular and Cellular Biology, 2012, 32, 2966-2978.	1.1	53
122	Geroncogenesis: Metabolic Changes during Aging as a Driver of Tumorigenesis. Cancer Cell, 2014, 25, 12-19.	7.7	52
123	The role of protein arginine methylation in the formation of silent chromatin. Genes and Development, 2006, 20, 3249-3254.	2.7	48
124	Aging: past, present and future. Aging, 2009, 1, 1-5.	1.4	48
125	Biomarkers of biological age as predictors of COVID-19 disease severity. Aging, 2020, 12, 6490-6491.	1.4	48
126	Sir2 histone deacetylase prevents programmed cell death caused by sustained activation of the Hog1 stressâ€activated protein kinase. EMBO Reports, 2011, 12, 1062-1068.	2.0	45

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127	Quantifying the cellular NAD+ metabolome using a tandem liquid chromatography mass spectrometry approach. Metabolomics, 2018, 14, 15.	1.4	45
128	Dynamic Acetylation of Phosphoenolpyruvate Carboxykinase Toggles Enzyme Activity between Gluconeogenic and Anaplerotic Reactions. Molecular Cell, 2018, 71, 718-732.e9.	4.5	45
129	Controlled DNA double-strand break induction in mice reveals post-damage transcriptome stability. Nucleic Acids Research, 2016, 44, e64-e64.	6.5	44
130	Sirtuins for healthy neurons. Nature Genetics, 2005, 37, 339-340.	9.4	41
131	Barrier-to-autointegration factor 1 (Banf1) regulates poly [ADP-ribose] polymerase 1 (PARP1) activity following oxidative DNA damage. Nature Communications, 2019, 10, 5501.	5.8	40
132	Skeletal muscle overexpression of nicotinamide phosphoribosyl transferase in mice coupled with voluntary exercise augments exercise endurance. Molecular Metabolism, 2018, 7, 1-11.	3.0	39
133	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. Aging Cell, 2009, 8, 140-151.	3.0	37
134	Cloning, and molecular characterization of the GCV1 gene encoding the glycine cleavage T-protein from Saccharomyces cerevisiae. Gene, 1997, 186, 13-20.	1.0	35
135	Enhanced longevity and metabolism by brown adipose tissue with disruption of the regulator of G protein signaling 14. Aging Cell, 2018, 17, e12751.	3.0	35
136	Impact papers on aging in 2009. Aging, 2010, 2, 111-121.	1.4	35
137	Characterization of murine SIRT3 transcript variants and corresponding protein products. Journal of Cellular Biochemistry, 2010, 111, 1051-1058.	1.2	34
138	SIRT1 Limits Adipocyte Hyperplasia through c-Myc Inhibition. Journal of Biological Chemistry, 2016, 291, 2119-2135.	1.6	33
139	ARDD 2020: from aging mechanisms to interventions. Aging, 2020, 12, 24484-24503.	1.4	32
140	Specific induction by glycine of the gene for the Pâ€•subunit of glycine decarboxylase from Saccharomyces cerevisiae. Molecular Microbiology, 1996, 19, 611-623.	1.2	31
141	Life-Span Extension in Yeast. Science, 2006, 312, 195d-197d.	6.0	31
142	Neuronal sirtuin1 mediates retinal vascular regeneration in oxygen-induced ischemic retinopathy. Angiogenesis, 2013, 16, 985-992.	3.7	30
143	Analysis of 41 cancer cell lines reveals excessive allelic loss and novel mutations in the<i>SIRT1</i>gene. Cell Cycle, 2013, 12, 263-270.	1.3	30
144	What is Xenohormesis?. American Journal of Pharmacology and Toxicology, 2008, 3, 152-159.	0.7	28

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145	NAD+ in COVID-19 and viral infections. Trends in Immunology, 2022, 43, 283-295.	2.9	28
146	Neuroprotective effects and mechanisms of action of nicotinamide mononucleotide (NMN) in a photoreceptor degenerative model of retinal detachment. Aging, 2020, 12, 24504-24521.	1.4	26
147	Voluntary exercise normalizes the proteomic landscape in muscle and brain and improves the phenotype of progeroid mice. Aging Cell, 2019, 18, e13029.	3.0	25
148	Studying the Replicative Life Span of Yeast Cells. Methods in Molecular Biology, 2013, 1048, 49-63.	0.4	22
149	The â€œMetabolic Winterâ€•Hypothesis: A Cause of the Current Epidemics of Obesity and Cardiometabolic Disease. Metabolic Syndrome and Related Disorders, 2014, 12, 355-361.	0.5	22
150	The Sirt1 activator SRT3025 expands hematopoietic stem and progenitor cells and improves hematopoiesis in Fanconi anemia mice. Stem Cell Research, 2015, 15, 130-140.	0.3	21
151	Administration of Nicotinamide Mononucleotide (NMN) Reduces Metabolic Impairment in Male Mouse Offspring from Obese Mothers. Cells, 2020, 9, 791.	1.8	21
152	Role of the N-terminal region of Rap1p in the transcriptional activation of glycolytic genes inSaccharomyces cerevisiae. Yeast, 2004, 21, 851-866.	0.8	20
153	Measurement of Sirtuin Enzyme Activity Using a Substrate-Agnostic Fluorometric Nicotinamide Assay. Methods in Molecular Biology, 2013, 1077, 167-177.	0.4	20
154	TPE or not TPE? It's no longer a question. Trends in Pharmacological Sciences, 2002, 23, 1-4.	4.0	19
155	Carboxamide SIRT1 inhibitors block DBC1 binding via an acetylation-independent mechanism. Cell Cycle, 2013, 12, 2233-2240.	1.3	18
156	Longitudinal analysis of biomarker data from a personalized nutrition platform in healthy subjects. Scientific Reports, 2018, 8, 14685.	1.6	18
157	Sirtuin1 Over-Expression Does Not Impact Retinal Vascular and Neuronal Degeneration in a Mouse Model of Oxygen-Induced Retinopathy. PLoS ONE, 2014, 9, e85031.	1.1	18
158	Impacts of obesity, maternal obesity and nicotinamide mononucleotide supplementation on sperm quality in mice. Reproduction, 2019, 158, 171-181.	1.1	17
159	Nicotinamide Impairs Entry into and Exit from Meiosis I in Mouse Oocytes. PLoS ONE, 2015, 10, e0126194.	1.1	17
160	Can artificial intelligence identify effective <scp>COVID</scp> â€19 therapies?. EMBO Molecular Medicine, 2020, 12, e12817.	3.3	16
161	Control of Expression of One-carbon Metabolism Genes ofSaccharomyces cerevisiae Is Mediated by a Tetrahydrofolate-responsive Protein Binding to a Glycine Regulatory Region Including a Core 5â€²-CTTCTT-3â€² Motif. Journal of Biological Chemistry, 1999, 274, 10523-10532.	1.6	15
162	GLTSCR2/PICT1 links mitochondrial stress and Myc signaling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3781-3786.	3.3	15

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163	Restoring stem cells â€" all you need is NAD+. Cell Research, 2016, 26, 971-972.	5.7	15
164	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.	1.7	15
165	Dynamic stem cell selection safeguards the genomic integrity of the epidermis. Developmental Cell, 2021, 56, 3309-3320.e5.	3.1	15
166	Oogonial stem cells as a model to study age-associated infertility in women. Reproduction, Fertility and Development, 2015, 27, 969.	0.1	13
167	<scp>SIRT</scp> 2 controls the pentose phosphate switch. EMBO Journal, 2014, 33, 1287-1288.	3.5	12
168	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.	0.5	12
169	The Longevity of Sirtuins. Cell Reports, 2012, 2, 1473-1474.	2.9	10
170	Molecular and Cellular Characterization of SIRT1 Allosteric Activators. Methods in Molecular Biology, 2019, 1983, 133-149.	0.4	10
171	Gut Microbiota Predicts Healthy Late-Life Aging in Male Mice. Nutrients, 2021, 13, 3290.	1.7	10
172	CELL BIOLOGY: An Age of Instability. Science, 2003, 301, 1859-1860.	6.0	9
173	A Blueprint for Developing Therapeutic Approaches That Increase Healthspan and Delay Death. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 693-694.	1.7	9
174	The elusive NMN transporter is found. Nature Metabolism, 2019, 1, 8-9.	5.1	9
175	Caloric Restriction and Life Span Determination of Yeast Cells. Methods in Molecular Biology, 2007, 371, 97-109.	0.4	9
176	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.	0.5	8
177	Sirtuins in Aging and Age-Related Diseases. , 2011, , 243-274.		7
178	Extracellular Vesicles for the Treatment of Radiation-Induced Normal Tissue Toxicity in the Lung. Frontiers in Oncology, 2020, 10, 602763.	1.3	7
179	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.	0.9	6
180	Sirtuin 5 levels are limiting in preserving cardiac function and suppressing fibrosis in response to pressure overload. Scientific Reports, 2022, 12, .	1.6	6

#	Article	IF	Citations
181	The Aging Liver and the Effects of Long Term Caloric Restriction. , 2010, , 191-216.		5
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