

David A Sinclair

List of Publications by Year in Descending Order

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

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	Mitochondrial and metabolic dysfunction in ageing and age-related diseases.. <i>Nature Reviews Endocrinology</i> , 2022 ,	15.2	14
201	NAD in COVID-19 and viral infections.. <i>Trends in Immunology</i> , 2022 ,	14.4	7
200	Reduced Levels of NAD in Skeletal Muscle and Increased Physiologic Frailty Are Associated With Viral Coinfection in Asymptomatic Middle-Aged Adults.. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2022 , 89, S15-S22	3.1	2
199	Liver-specific overexpression of SIRT3 enhances oxidative metabolism, but does not impact metabolic defects induced by high fat feeding in mice.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 607, 131-137	3.4	0
198	Quantitative proteomic analysis of extracellular vesicle subgroups isolated by an optimized method combining polymer-based precipitation and size exclusion chromatography. <i>Journal of Extracellular Vesicles</i> , 2021 , 10, e12087	16.4	14
197	The economic value of targeting aging. <i>Nature Aging</i> , 2021 , 1, 616-623		21
196	Measuring PGC-1 β and Its Acetylation Status in Mouse Primary Myotubes. <i>Methods in Molecular Biology</i> , 2021 , 2310, 301-309	1.4	1
195	Gut Microbiota Predicts Healthy Late-Life Aging in Male Mice. <i>Nutrients</i> , 2021 , 13,	6.7	3
194	Dynamic stem cell selection safeguards the genomic integrity of the epidermis.. <i>Developmental Cell</i> , 2021 , 56, 3309-3320.e5	10.2	1
193	Combining a High Dose of Metformin With the SIRT1 Activator, SRT1720, Reduces Life Span in Aged Mice Fed a High-Fat Diet. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 2037-2041	6.4	10
192	Can artificial intelligence identify effective COVID-19 therapies?. <i>EMBO Molecular Medicine</i> , 2020 , 12, e12817	12	11
191	NAD Repletion Rescues Female Fertility during Reproductive Aging. <i>Cell Reports</i> , 2020 , 30, 1670-1681.e710.6	10.6	74
190	Biomarkers of biological age as predictors of COVID-19 disease severity. <i>Aging</i> , 2020 , 12, 6490-6491	5.6	40
189	Why does COVID-19 disproportionately affect older people?. <i>Aging</i> , 2020 , 12, 9959-9981	5.6	370
188	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020 , 12, 24484-24503	5.6	11
187	NMN Rescues Endothelial Function and Neurovascular Coupling, Improving Cognitive Function in Aged Mice. <i>Innovation in Aging</i> , 2020 , 4, 121-121	0.1	0
186	Neuroprotective effects and mechanisms of action of nicotinamide mononucleotide (NMN) in a photoreceptor degenerative model of retinal detachment. <i>Aging</i> , 2020 , 12, 24504-24521	5.6	5

185	Reprogramming to recover youthful epigenetic information and restore vision. <i>Nature</i> , 2020 , 588, 124-130.	10.4	128
184	The Soluble Adenylyl Cyclase Inhibitor LRE1 Prevents Hepatic Ischemia/Reperfusion Damage Through Improvement of Mitochondrial Function. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
183	Plant-Based Diets and Longevity. <i>Alternative and Complementary Therapies</i> , 2020 , 26, 153-154	0.3	
182	Age and life expectancy clocks based on machine learning analysis of mouse frailty. <i>Nature Communications</i> , 2020 , 11, 4618	17.4	31
181	Extracellular Vesicles for the Treatment of Radiation-Induced Normal Tissue Toxicity in the Lung. <i>Frontiers in Oncology</i> , 2020 , 10, 602763	5.3	2
180	Administration of Nicotinamide Mononucleotide (NMN) Reduces Metabolic Impairment in Male Mouse Offspring From Obese Mothers. <i>Cells</i> , 2020 , 9,	7.9	7
179	Sirtuin Activators 2019 , 210-210		
178	Harvard HIV and Aging Workshop: Perspectives and Priorities from Claude D. Pepper Centers and Centers for AIDS Research. <i>AIDS Research and Human Retroviruses</i> , 2019 , 35, 999-1012	1.6	5
177	NAD in Brain Aging and Neurodegenerative Disorders. <i>Cell Metabolism</i> , 2019 , 30, 630-655	24.6	178
176	Molecular and Cellular Characterization of SIRT1 Allosteric Activators. <i>Methods in Molecular Biology</i> , 2019 , 1983, 133-149	1.4	6
175	Frailty biomarkers in humans and rodents: Current approaches and future advances. <i>Mechanisms of Ageing and Development</i> , 2019 , 180, 117-128	5.6	38
174	Epigenetic changes during aging and their reprogramming potential. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2019 , 54, 61-83	8.7	68
173	Multiple basal cell carcinomas in a patient with myotonic dystrophy type 1. <i>BMJ Case Reports</i> , 2019 , 12,	0.9	2
172	Nicotinamide mononucleotide (NMN) supplementation rescues cerebrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. <i>Redox Biology</i> , 2019 , 24, 101192	11.3	108
171	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease. <i>Cell Metabolism</i> , 2019 , 29, 1274-1290.e9	24.6	50
170	Impacts of obesity, maternal obesity and nicotinamide mononucleotide supplementation on sperm quality in mice. <i>Reproduction</i> , 2019 , 158, 169-179	3.8	7
169	Mitohormesis and metabolic health: The interplay between ROS, cAMP and sirtuins. <i>Free Radical Biology and Medicine</i> , 2019 , 141, 483-491	7.8	73
168	Voluntary exercise normalizes the proteomic landscape in muscle and brain and improves the phenotype of progeroid mice. <i>Aging Cell</i> , 2019 , 18, e13029	9.9	12

167	Barrier-to-autointegration factor 1 (Banf1) regulates poly [ADP-ribose] polymerase 1 (PARP1) activity following oxidative DNA damage. <i>Nature Communications</i> , 2019 , 10, 5501	17.4	18
166	Targeting mitochondria for cardiovascular disorders: therapeutic potential and obstacles. <i>Nature Reviews Cardiology</i> , 2019 , 16, 33-55	14.8	104
165	The elusive NMN transporter is found. <i>Nature Metabolism</i> , 2019 , 1, 8-9	14.6	5
164	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. <i>Cell Metabolism</i> , 2018 , 27, 667-676.e4152	14.6	152
163	Therapeutic Potential of NAD-Boosting Molecules: The In Vivo Evidence. <i>Cell Metabolism</i> , 2018 , 27, 529-547	14.6	332
162	Enhanced longevity and metabolism by brown adipose tissue with disruption of the regulator of G protein signaling 14. <i>Aging Cell</i> , 2018 , 17, e12751	9.9	21
161	Sex differences in the response to dietary restriction in rodents. <i>Current Opinion in Physiology</i> , 2018 , 6, 28-34	2.6	23
160	Impairment of an Endothelial NAD-HS Signaling Network Is a Reversible Cause of Vascular Aging. <i>Cell</i> , 2018 , 173, 74-89.e20	56.2	205
159	Amino Acid Restriction Triggers Angiogenesis via GCN2/ATF4 Regulation of VEGF and HS Production. <i>Cell</i> , 2018 , 173, 117-129.e14	56.2	144
158	Sirtuin activators and inhibitors: Promises, achievements, and challenges. <i>Pharmacology & Therapeutics</i> , 2018 , 188, 140-154	13.9	186
157	Pharmacological Approaches for Modulating Sirtuins 2018 , 71-81		
156	Assays for NAD-Dependent Reactions and NAD Metabolites. <i>Methods in Molecular Biology</i> , 2018 , 1813, 77-90	1.4	3
155	Skeletal muscle overexpression of nicotinamide phosphoribosyl transferase in mice coupled with voluntary exercise augments exercise endurance. <i>Molecular Metabolism</i> , 2018 , 7, 1-11	8.8	25
154	Comparing the Effects of Low-Protein and High-Carbohydrate Diets and Caloric Restriction on Brain Aging in Mice. <i>Cell Reports</i> , 2018 , 25, 2234-2243.e6	10.6	57
153	Longitudinal analysis of biomarker data from a personalized nutrition platform in healthy subjects. <i>Scientific Reports</i> , 2018 , 8, 14685	4.9	9
152	Dynamic Acetylation of Phosphoenolpyruvate Carboxykinase Toggles Enzyme Activity between Gluconeogenic and Anaplerotic Reactions. <i>Molecular Cell</i> , 2018 , 71, 718-732.e9	17.6	25
151	Sirtuins and NAD in the Development and Treatment of Metabolic and Cardiovascular Diseases. <i>Circulation Research</i> , 2018 , 123, 868-885	15.7	151
150	Response to: "If the Metabolic Winter Is Coming, When Will It Be Summer?" (Metab Syndr Relat Disord 2017;15:3). <i>Metabolic Syndrome and Related Disorders</i> , 2017 , 15, 4-5	2.6	

149	SIRT1 protects the heart from ER stress-induced cell death through eIF2 β acetylation. <i>Cell Death and Differentiation</i> , 2017 , 24, 343-356	12.7	108
148	Resveratrol Improves Vascular Function and Mitochondrial Number but Not Glucose Metabolism in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017 , 72, 1703-1709	6.4	52
147	A conserved NAD binding pocket that regulates protein-protein interactions during aging. <i>Science</i> , 2017 , 355, 1312-1317	33.3	102
146	Quantifying the cellular NAD ⁺ metabolome using a tandem liquid chromatography mass spectrometry approach. <i>Metabolomics</i> , 2017 , 14, 15	4.7	29
145	Nicotinamide mononucleotide (NMN) supplementation ameliorates the impact of maternal obesity in mice: comparison with exercise. <i>Scientific Reports</i> , 2017 , 7, 15063	4.9	38
144	Oxidative Priority, Meal Frequency, and the Energy Economy of Food and Activity: Implications for Longevity, Obesity, and Cardiometabolic Disease. <i>Metabolic Syndrome and Related Disorders</i> , 2017 , 15, 6-17	2.6	8
143	Slowing ageing by design: the rise of NAD and sirtuin-activating compounds. <i>Nature Reviews Molecular Cell Biology</i> , 2016 , 17, 679-690	48.7	410
142	Sirtuin Activation by Small Molecules 2016 , 243-266		2
141	Restoration of normal embryogenesis by mitochondrial supplementation in pig oocytes exhibiting mitochondrial DNA deficiency. <i>Scientific Reports</i> , 2016 , 6, 23229	4.9	50
140	Restoring stem cells - all you need is NAD(.). <i>Cell Research</i> , 2016 , 26, 971-2	24.7	9
139	Why NAD(+) Declines during Aging: It's Destroyed. <i>Cell Metabolism</i> , 2016 , 23, 965-966	24.6	75
138	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. <i>Cell Metabolism</i> , 2016 , 23, 1093-1112	24.6	245
137	C. elegans lifespan extension by osmotic stress requires FudR, base excision repair, FOXO, and sirtuins. <i>Mechanisms of Ageing and Development</i> , 2016 , 154, 30-42	5.6	47
136	Controlled DNA double-strand break induction in mice reveals post-damage transcriptome stability. <i>Nucleic Acids Research</i> , 2016 , 44, e64	20.1	32
135	SIRT1 Limits Adipocyte Hyperplasia through c-Myc Inhibition. <i>Journal of Biological Chemistry</i> , 2016 , 291, 2119-35	5.4	27
134	When stem cells grow old: phenotypes and mechanisms of stem cell aging. <i>Development (Cambridge)</i> , 2016 , 143, 3-14	6.6	180
133	Head to Head Comparison of Short-Term Treatment with the NAD(+) Precursor Nicotinamide Mononucleotide (NMN) and 6 Weeks of Exercise in Obese Female Mice. <i>Frontiers in Pharmacology</i> , 2016 , 7, 258	5.6	46
132	JNK Phosphorylates SIRT6 to Stimulate DNA Double-Strand Break Repair in Response to Oxidative Stress by Recruiting PARP1 to DNA Breaks. <i>Cell Reports</i> , 2016 , 16, 2641-2650	10.6	70

131	NAD Replenishment Improves Lifespan and Healthspan in Ataxia Telangiectasia Models via Mitophagy and DNA Repair. <i>Cell Metabolism</i> , 2016 , 24, 566-581	24.6	273
130	Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. <i>European Heart Journal</i> , 2015 , 36, 3404-12	9.5	264
129	Oogonial stem cells as a model to study age-associated infertility in women. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 969-74	1.8	11
128	Selective Sirt2 inhibition by ligand-induced rearrangement of the active site. <i>Nature Communications</i> , 2015 , 6, 6263	17.4	169
127	Measuring PGC-1 β and its acetylation status in mouse primary myotubes. <i>Methods in Molecular Biology</i> , 2015 , 1241, 49-57	1.4	
126	Interventions to Slow Aging in Humans: Are We Ready?. <i>Aging Cell</i> , 2015 , 14, 497-510	9.9	373
125	The Sirt1 activator SRT3025 provides atheroprotection in Apoe ^{-/-} mice by reducing hepatic Pcsk9 secretion and enhancing Ldlr expression. <i>European Heart Journal</i> , 2015 , 36, 51-9	9.5	92
124	The Sirt1 activator SRT3025 expands hematopoietic stem and progenitor cells and improves hematopoiesis in Fanconi anemia mice. <i>Stem Cell Research</i> , 2015 , 15, 130-40	1.6	15
123	Nicotinamide impairs entry into and exit from meiosis I in mouse oocytes. <i>PLoS ONE</i> , 2015 , 10, e0126194	3.7	13
122	Effects of High Fat Diet Induced Obesity on Mitochondrial Biogenesis and Function Impact of Exercise or Nicotinamide Mononucleotide (NMN). <i>FASEB Journal</i> , 2015 , 29, 777.8	0.9	
121	The SIRT1 activator SRT1720 extends lifespan and improves health of mice fed a standard diet. <i>Cell Reports</i> , 2014 , 6, 836-43	10.6	275
120	The ratio of macronutrients, not caloric intake, dictates cardiometabolic health, aging, and longevity in ad libitum-fed mice. <i>Cell Metabolism</i> , 2014 , 19, 418-30	24.6	572
119	GLTSCR2/PICT1 links mitochondrial stress and Myc signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3781-6	11.5	13
118	SIRT2 induces the checkpoint kinase BubR1 to increase lifespan. <i>EMBO Journal</i> , 2014 , 33, 1438-53	13	148
117	SIRT2 controls the pentose phosphate switch. <i>EMBO Journal</i> , 2014 , 33, 1287-8	13	5
116	Small-molecule allosteric activators of sirtuins. <i>Annual Review of Pharmacology and Toxicology</i> , 2014 , 54, 363-80	17.9	171
115	Small molecule SIRT1 activators for the treatment of aging and age-related diseases. <i>Trends in Pharmacological Sciences</i> , 2014 , 35, 146-54	13.2	412
114	Gerontogenesis: metabolic changes during aging as a driver of tumorigenesis. <i>Cancer Cell</i> , 2014 , 25, 12-9	24.3	46

113	Dietary restriction involves NAD ⁺ -dependent mechanisms and a shift toward oxidative metabolism. <i>Aging Cell</i> , 2014 , 13, 1075-85	9.9	71
112	The "metabolic winter" hypothesis: a cause of the current epidemics of obesity and cardiometabolic disease. <i>Metabolic Syndrome and Related Disorders</i> , 2014 , 12, 355-61	2.6	15
111	SRT2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. <i>Aging Cell</i> , 2014 , 13, 787-96	9.9	158
110	Aging-like phenotype and defective lineage specification in SIRT1-deleted hematopoietic stem and progenitor cells. <i>Stem Cell Reports</i> , 2014 , 3, 44-59	8	109
109	Resveratrol accelerates erythroid maturation by activation of FoxO3 and ameliorates anemia in beta-thalassemic mice. <i>Haematologica</i> , 2014 , 99, 267-75	6.6	73
108	Sirtuin1 over-expression does not impact retinal vascular and neuronal degeneration in a mouse model of oxygen-induced retinopathy. <i>PLoS ONE</i> , 2014 , 9, e85031	3.7	17
107	Metformin improves healthspan and lifespan in mice. <i>Nature Communications</i> , 2013 , 4, 2192	17.4	822
106	Declining NAD(+) induces a pseudohypoxic state disrupting nuclear-mitochondrial communication during aging. <i>Cell</i> , 2013 , 155, 1624-38	56.2	879
105	Role of sirtuins in lifespan regulation is linked to methylation of nicotinamide. <i>Nature Chemical Biology</i> , 2013 , 9, 693-700	11.7	159
104	Evaluation of resveratrol, green tea extract, curcumin, oxaloacetic acid, and medium-chain triglyceride oil on life span of genetically heterogeneous mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013 , 68, 6-16	6.4	149
103	Identification of a SIRT1 mutation in a family with type 1 diabetes. <i>Cell Metabolism</i> , 2013 , 17, 448-455	24.6	83
102	Evidence for a common mechanism of SIRT1 regulation by allosteric activators. <i>Science</i> , 2013 , 339, 1216-9	33.3	467
101	Flavonoid apigenin is an inhibitor of the NAD ⁺ ase CD38: implications for cellular NAD ⁺ metabolism, protein acetylation, and treatment of metabolic syndrome. <i>Diabetes</i> , 2013 , 62, 1084-93	0.9	207
100	Germline energetics, aging, and female infertility. <i>Cell Metabolism</i> , 2013 , 17, 838-850	24.6	128
99	Neuronal sirtuin1 mediates retinal vascular regeneration in oxygen-induced ischemic retinopathy. <i>Angiogenesis</i> , 2013 , 16, 985-92	10.6	26
98	Type 5 adenylyl cyclase increases oxidative stress by transcriptional regulation of manganese superoxide dismutase via the SIRT1/FoxO3a pathway. <i>Circulation</i> , 2013 , 127, 1692-701	16.7	71
97	A high-confidence interaction map identifies SIRT1 as a mediator of acetylation of USP22 and the SAGA coactivator complex. <i>Molecular and Cellular Biology</i> , 2013 , 33, 1487-502	4.8	47
96	Measurement of sirtuin enzyme activity using a substrate-agnostic fluorometric nicotinamide assay. <i>Methods in Molecular Biology</i> , 2013 , 1077, 167-77	1.4	17

95	Analysis of 41 cancer cell lines reveals excessive allelic loss and novel mutations in the SIRT1 gene. <i>Cell Cycle</i> , 2013 , 12, 263-70	4.7	15
94	Carboxamide SIRT1 inhibitors block DBC1 binding via an acetylation-independent mechanism. <i>Cell Cycle</i> , 2013 , 12, 2233-40	4.7	17
93	Studying the replicative life span of yeast cells. <i>Methods in Molecular Biology</i> , 2013 , 1048, 49-63	1.4	14
92	Manipulation of a nuclear NAD ⁺ salvage pathway delays aging without altering steady-state NAD ⁺ levels.. <i>Journal of Biological Chemistry</i> , 2013 , 288, 24160	5.4	78
91	The longevity of sirtuins. <i>Cell Reports</i> , 2012 , 2, 1473-4	10.6	10
90	Sirtuin 1 and sirtuin 3: physiological modulators of metabolism. <i>Physiological Reviews</i> , 2012 , 92, 1479-514	17.9	417
89	Berberine protects against high fat diet-induced dysfunction in muscle mitochondria by inducing SIRT1-dependent mitochondrial biogenesis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012 , 1822, 185-95	6.9	109
88	SIRT1 is required for AMPK activation and the beneficial effects of resveratrol on mitochondrial function. <i>Cell Metabolism</i> , 2012 , 15, 675-90	24.6	1032
87	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	11.2	2783
86	The lifespan extension effects of resveratrol are conserved in the honey bee and may be driven by a mechanism related to caloric restriction. <i>Aging</i> , 2012 , 4, 499-508	5.6	78
85	Prolyl isomerase Pin1 regulates neuronal differentiation via E-catenin. <i>Molecular and Cellular Biology</i> , 2012 , 32, 2966-78	4.8	49
84	The intersection between aging and cardiovascular disease. <i>Circulation Research</i> , 2012 , 110, 1097-108	15.7	595
83	Resveratrol Induces Erythroid Maturation by Activating FOXO3 and Improves in Vivo Erythropoiesis in Normal and Beta -Thalassemic Mice. <i>Blood</i> , 2012 , 120, 3191-3191	2.2	
82	Negative regulation of STAT3 protein-mediated cellular respiration by SIRT1 protein. <i>Journal of Biological Chemistry</i> , 2011 , 286, 19270-9	5.4	96
81	SIRT1 deacetylase in SF1 neurons protects against metabolic imbalance. <i>Cell Metabolism</i> , 2011 , 14, 301-124	12.6	128
80	Rapamycin, but not resveratrol or simvastatin, extends life span of genetically heterogeneous mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011 , 66, 191-201	6.4	648
79	Resveratrol inhibits pathologic retinal neovascularization in Vldlr(-/-) mice 2011 , 52, 2809-16		65
78	Sir2 histone deacetylase prevents programmed cell death caused by sustained activation of the Hog1 stress-activated protein kinase. <i>EMBO Reports</i> , 2011 , 12, 1062-8	6.5	38

77	Sirtuins in Aging and Age-Related Diseases 2011 , 243-274		3
76	SRT1720 improves survival and healthspan of obese mice. <i>Scientific Reports</i> , 2011 , 1, 70	4.9	215
75	Sir-two-homolog 2 (Sirt2) modulates peripheral myelination through polarity protein Par-3/atypical protein kinase C (aPKC) signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E952-61	11.5	119
74	Regulation of the mPTP by SIRT3-mediated deacetylation of CypD at lysine 166 suppresses age-related cardiac hypertrophy. <i>Aging</i> , 2010 , 2, 914-23	5.6	397
73	Dietary restriction: standing up for sirtuins. <i>Science</i> , 2010 , 329, 1012-3; author reply 1013-4	33.3	56
72	SIRT1 mRNA expression may be associated with energy expenditure and insulin sensitivity. <i>Diabetes</i> , 2010 , 59, 829-35	0.9	83
71	Mammalian sirtuins: biological insights and disease relevance. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2010 , 5, 253-95	34	1472
70	The Aging Liver and the Effects of Long Term Caloric Restriction 2010 , 191-216		5
69	SIRT1 is essential for normal cognitive function and synaptic plasticity. <i>Journal of Neuroscience</i> , 2010 , 30, 9695-707	6.6	365
68	Characterization of murine SIRT3 transcript variants and corresponding protein products. <i>Journal of Cellular Biochemistry</i> , 2010 , 111, 1051-8	4.7	31
67	Impact papers on aging in 2009. <i>Aging</i> , 2010 , 2, 111-21	5.6	29
66	Biochemical characterization, localization, and tissue distribution of the longer form of mouse SIRT3. <i>Protein Science</i> , 2009 , 18, 514-25	6.3	93
65	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. <i>Aging Cell</i> , 2009 , 8, 140-51	9.9	33
64	The ageing epigenome: damaged beyond repair?. <i>Ageing Research Reviews</i> , 2009 , 8, 189-98	12	62
63	Inhibition of mammalian S6 kinase by resveratrol suppresses autophagy. <i>Aging</i> , 2009 , 1, 515-28	5.6	130
62	Xenohormesis: sensing the chemical cues of other species. <i>Cell</i> , 2008 , 133, 387-91	56.2	221
61	SIRT1 redistribution on chromatin promotes genomic stability but alters gene expression during aging. <i>Cell</i> , 2008 , 135, 907-18	56.2	617
60	Resveratrol delays age-related deterioration and mimics transcriptional aspects of dietary restriction without extending life span. <i>Cell Metabolism</i> , 2008 , 8, 157-68	24.6	949

59	The SIRT1 deacetylase suppresses intestinal tumorigenesis and colon cancer growth. <i>PLoS ONE</i> , 2008 , 3, e2020	3.7	461
58	What is Xenohormesis?. <i>American Journal of Pharmacology and Toxicology</i> , 2008 , 3, 152-159	0.6	22
57	The enzyme CD38 (a NAD glycohydrolase, EC 3.2.2.5) is necessary for the development of diet-induced obesity. <i>FASEB Journal</i> , 2007 , 21, 3629-39	0.9	170
56	Sirtuins in mammals: insights into their biological function. <i>Biochemical Journal</i> , 2007 , 404, 1-13	3.8	1314
55	The role of nuclear architecture in genomic instability and ageing. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 692-702	48.7	208
54	SIRT1 deacetylase protects against neurodegeneration in models for Alzheimer's disease and amyotrophic lateral sclerosis. <i>EMBO Journal</i> , 2007 , 26, 3169-79	13	865
53	Small molecule activators of SIRT1 as therapeutics for the treatment of type 2 diabetes. <i>Nature</i> , 2007 , 450, 712-6	50.4	1387
52	Design and synthesis of compounds that extend yeast replicative lifespan. <i>Aging Cell</i> , 2007 , 6, 35-43	9.9	90
51	Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic dose-response framework. <i>Toxicology and Applied Pharmacology</i> , 2007 , 222, 122-8	4.6	512
50	Sirtuins: a conserved key unlocking AceCS activity. <i>Trends in Biochemical Sciences</i> , 2007 , 32, 1-4	10.3	54
49	MSN2 and MSN4 link calorie restriction and TOR to sirtuin-mediated lifespan extension in <i>Saccharomyces cerevisiae</i> . <i>PLoS Biology</i> , 2007 , 5, e261	9.7	246
48	Nutrient-sensitive mitochondrial NAD ⁺ levels dictate cell survival. <i>Cell</i> , 2007 , 130, 1095-107	56.2	754
47	Caloric restriction and life span determination of yeast cells. <i>Methods in Molecular Biology</i> , 2007 , 371, 97-109	1.4	9
46	Nampt/PBEF/Visfatin: a regulator of mammalian health and longevity?. <i>Experimental Gerontology</i> , 2006 , 41, 718-26	4.5	91
45	Life-span extension in yeast. <i>Science</i> , 2006 , 312, 195-7; author reply 195-7	33.3	29
44	The role of protein arginine methylation in the formation of silent chromatin. <i>Genes and Development</i> , 2006 , 20, 3249-54	12.6	41
43	Therapeutic potential of resveratrol: the in vivo evidence. <i>Nature Reviews Drug Discovery</i> , 2006 , 5, 493-506	64.1	2806
42	Unlocking the secrets of longevity genes. <i>Scientific American</i> , 2006 , 294, 48-51, 54-7	0.5	92

41	Resveratrol improves health and survival of mice on a high-calorie diet. <i>Nature</i> , 2006 , 444, 337-42	50.4	3520
40	Design, synthesis, and biological evaluation of sirtinol analogues as class III histone/protein deacetylase (Sirtuin) inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 7789-95	8.3	147
39	Toward a unified theory of caloric restriction and longevity regulation. <i>Mechanisms of Ageing and Development</i> , 2005 , 126, 987-1002	5.6	450
38	HST2 mediates SIR2-independent life-span extension by calorie restriction. <i>Science</i> , 2005 , 309, 1861-4	33.3	195
37	Dietary Restriction, Hormesis, and Small Molecule Mimetics 2005 , 63-104		1
36	Poly-Glutamine Induces Bax-Mediated Cell Death by Dissociating Ku70 from Bax through Ku70-Acetylation.. <i>Blood</i> , 2005 , 106, 4299-4299	2.2	
35	Small molecules that regulate lifespan: evidence for xenohormesis. <i>Molecular Microbiology</i> , 2004 , 53, 1003-9	4.1	183
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