

David Gems

List of Publications by Year in descending order

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42
papers

8,947
citations

117625

34
h-index

265206

42
g-index

43
all docs

43
docs citations

43
times ranked

9920
citing authors

#	ARTICLE	IF	CITATIONS
1	Extension of Life-Span by Loss of CHICO, a <i>Drosophila</i> Insulin Receptor Substrate Protein. <i>Science</i> , 2001, 292, 104-106.	12.6	1,315
2	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. <i>Science</i> , 2009, 326, 140-144.	12.6	1,009
3	Unraveling the Biological Roles of Reactive Oxygen Species. <i>Cell Metabolism</i> , 2011, 13, 361-366.	16.2	661
4	Absence of effects of Sir2 overexpression on lifespan in <i>C. elegans</i> and <i>Drosophila</i> . <i>Nature</i> , 2011, 477, 482-485.	27.8	574
5	Evidence for lifespan extension and delayed age-related biomarkers in insulin receptor substrate 1 null mice. <i>FASEB Journal</i> , 2008, 22, 807-818.	0.5	487
6	Genetics of Longevity in Model Organisms: Debates and Paradigm Shifts. <i>Annual Review of Physiology</i> , 2013, 75, 621-644.	13.1	475
7	Mechanisms of aging: public or private?. <i>Nature Reviews Genetics</i> , 2002, 3, 165-175.	16.3	435
8	Stress-Response Hormesis and Aging: "That which Does Not Kill Us Makes Us Stronger" Cell <i>Metabolism</i> , 2008, 7, 200-203.	16.2	411
9	Effects of resveratrol on lifespan in <i>Drosophila melanogaster</i> and <i>Caenorhabditis elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2007, 128, 546-552.	4.6	398
10	Sex and Death: What Is the Connection?. <i>Cell</i> , 2005, 120, 461-472.	28.9	390
11	Measurement of H ₂ O ₂ within Living <i>Drosophila</i> during Aging Using a Ratiometric Mass Spectrometry Probe Targeted to the Mitochondrial Matrix. <i>Cell Metabolism</i> , 2011, 13, 340-350.	16.2	267
12	Dietary Restriction in Long-Lived Dwarf Flies. <i>Science</i> , 2002, 296, 319-319.	12.6	259
13	Insulin/IGF signalling and ageing: seeing the bigger picture. <i>Current Opinion in Genetics and Development</i> , 2001, 11, 287-292.	3.3	170
14	Alternative Perspectives on Aging in <i>Caenorhabditis elegans</i> : Reactive Oxygen Species or Hyperfunction?. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 321-329.	5.4	152
15	Superoxide dismutase mimetics elevate superoxide dismutase activity in vivo but do not retard aging in the nematode <i>Caenorhabditis elegans</i> . <i>Free Radical Biology and Medicine</i> , 2004, 37, 239-250.	2.9	149
16	Dietary restriction in <i>C. elegans</i> : From rate-of-living effects to nutrient sensing pathways. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 929-937.	4.6	149
17	Broad spectrum detoxification: the major longevity assurance process regulated by insulin/IGF-1 signaling?. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 381-387.	4.6	132
18	Metabolic rate is not reduced by dietary-restriction or by lowered insulin/IGF-1 signalling and is not correlated with individual lifespan in <i>Drosophila melanogaster</i> . <i>Experimental Gerontology</i> , 2004, 39, 1137-1143.	2.8	127

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19	Anthranilate Fluorescence Marks a Calcium-Propagated Necrotic Wave That Promotes Organismal Death in <i>C. elegans</i> . <i>PLoS Biology</i> , 2013, 11, e1001613.	5.6	123
20	Increased life span from overexpression of superoxide dismutase in <i>Caenorhabditis elegans</i> is not caused by decreased oxidative damage. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1575-1582.	2.9	122
21	Beyond the evolutionary theory of ageing, from functional genomics to evo-gero. <i>Trends in Ecology and Evolution</i> , 2006, 21, 334-340.	8.7	119
22	Coordinated multitissue transcriptional and plasma metabolomic profiles following acute caloric restriction in mice. <i>Physiological Genomics</i> , 2006, 27, 187-200.	2.3	109
23	Benchmarks for ageing studies. <i>Nature</i> , 2007, 450, 165-167.	27.8	101
24	No increase in lifespan in <i>Caenorhabditis elegans</i> upon treatment with the superoxide dismutase mimetic EUK-8. <i>Free Radical Biology and Medicine</i> , 2003, 34, 277-282.	2.9	100
25	No Influence of Indy on Lifespan in <i>Drosophila</i> after Correction for Genetic and Cytoplasmic Background Effects. <i>PLoS Genetics</i> , 2007, 3, e95.	3.5	95
26	Interpreting interactions between treatments that slow aging. <i>Aging Cell</i> , 2002, 1, 1-9.	6.7	68
27	The mystery of <i>C. elegans</i> aging: An emerging role for fat. <i>BioEssays</i> , 2012, 34, 466-471.	2.5	59
28	Insulin/IGF-1 and Hypoxia Signaling Act in Concert to Regulate Iron Homeostasis in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2012, 8, e1002498.	3.5	55
29	DAF-16/FoxO Directly Regulates an Atypical AMP-Activated Protein Kinase Gamma Isoform to Mediate the Effects of Insulin/IGF-1 Signaling on Aging in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2014, 10, e1004109.	3.5	55
30	LET-60 RAS modulates effects of insulin/IGF-1 signaling on development and aging in <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2005, 4, 235-245.	6.7	50
31	Manipulation of in vivo iron levels can alter resistance to oxidative stress without affecting ageing in the nematode <i>C. elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2012, 133, 282-290.	4.6	48
32	The neurodegenerative effects of selenium are inhibited by FOXO and PINK1/PTEN regulation of insulin/insulin-like growth factor signaling in <i>Caenorhabditis elegans</i> . <i>NeuroToxicology</i> , 2014, 41, 28-43.	3.0	46
33	What is an anti-ageing treatment?. <i>Experimental Gerontology</i> , 2014, 58, 14-18.	2.8	44
34	Tragedy and delight: the ethics of decelerated ageing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 108-112.	4.0	38
35	Ageing: A lethal side-effect. <i>Nature</i> , 2002, 418, 921-921.	27.8	30
36	Shorter life and reduced fecundity can increase colony fitness in virtual <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2020, 19, e13141.	6.7	25

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37	Dietary Restriction and Life-Span. <i>Science</i> , 2002, 296, 2141-2142.	12.6	22
38	Death happy: adaptive ageing and its evolution by kin selection in organisms with colonial ecology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190730.	4.0	20
39	Long-lived dwarf mice: are bile acids a longevity signal?. <i>Aging Cell</i> , 2007, 6, 421-423.	6.7	19
40	New label-free automated survival assays reveal unexpected stress resistance patterns during <i>C.Âlegans</i> aging. <i>Aging Cell</i> , 2019, 18, e12998.	6.7	17
41	Mutation of <i>daf-2</i> extends lifespan via tissue-specific effectors that suppress distinct life-limiting pathologies. <i>Aging Cell</i> , 2021, 20, e13324.	6.7	11
42	Gross ways to live long: Parasitic worms as an anti-inflammaging therapy?. <i>ELife</i> , 2021, 10, .	6.0	9