

Colin Selman

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

7,762
citations

76326

40
h-index

51608

86
g-index

103
all docs

103
docs citations

103
times ranked

10047
citing authors

#	ARTICLE	IF	CITATIONS
1	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. <i>Science</i> , 2009, 326, 140-144.	12.6	1,009
2	Uncoupled and surviving: individual mice with high metabolism have greater mitochondrial uncoupling and live longer. <i>Aging Cell</i> , 2004, 3, 87-95.	6.7	505
3	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
4	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. <i>Journal of Clinical Investigation</i> , 2007, 117, 2325-2336.	8.2	445
5	Physical activity and resting metabolic rate. <i>Proceedings of the Nutrition Society</i> , 2003, 62, 621-634.	1.0	311
6	Oxidative damage, ageing, and life-history evolution: where now?. <i>Trends in Ecology and Evolution</i> , 2012, 27, 570-577.	8.7	286
7	The free radical damage theory: Accumulating evidence against a simple link of oxidative stress to ageing and lifespan. <i>BioEssays</i> , 2011, 33, 255-259.	2.5	216
8	The role of insulin receptor substrate 2 in hypothalamic and β^2 cell function. <i>Journal of Clinical Investigation</i> , 2005, 115, 940-950.	8.2	209
9	Effect of pregnancy on exposure to malaria mosquitoes. <i>Lancet</i> , The, 2000, 355, 1972.	13.7	206
10	Birds sacrifice oxidative protection for reproduction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S360-3.	2.6	197
11	Variation in the link between oxygen consumption and ATP production, and its relevance for animal performance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151028.	2.6	187
12	Evolutionary conservation of regulated longevity assurance mechanisms. <i>Genome Biology</i> , 2007, 8, R132.	9.6	173
13	Oxidative stress and life histories: unresolved issues and current needs. <i>Ecology and Evolution</i> , 2015, 5, 5745-5757.	1.9	169
14	Living Fast, Dying When? The Link between Aging and Energetics. <i>Journal of Nutrition</i> , 2002, 132, 1583S-1597S.	2.9	167
15	Longevity and skeletal muscle mass: the role of IGF signalling, the sirtuins, dietary restriction and protein intake. <i>Aging Cell</i> , 2015, 14, 511-523.	6.7	166
16	Dominant Role of the p110 β Isoform of PI3K over p110 α in Energy Homeostasis Regulation by POMC and AgRP Neurons. <i>Cell Metabolism</i> , 2009, 10, 343-354.	16.2	149
17	Doxorubicin treatment in vivo activates caspase-12 mediated cardiac apoptosis in both male and female rats. <i>FEBS Letters</i> , 2004, 577, 483-490.	2.8	117
18	Exercise by lifelong voluntary wheel running reduces subsarcolemmal and interfibrillar mitochondrial hydrogen peroxide production in the heart. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1564-R1572.	1.8	116

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19	Coordinated multitissue transcriptional and plasma metabolomic profiles following acute caloric restriction in mice. <i>Physiological Genomics</i> , 2006, 27, 187-200.	2.3	109
20	Deletion of the von Hippel-Lindau gene in pancreatic β^2 cells impairs glucose homeostasis in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 125-35.	8.2	108
21	Expenditure freeze: the metabolic response of small mammals to cold environments. <i>Ecology Letters</i> , 2005, 8, 1326-1333.	6.4	99
22	Individuals with higher metabolic rates have lower levels of reactive oxygen species <i>in vivo</i> . <i>Biology Letters</i> , 2015, 11, 20150538.	2.3	94
23	Energy expenditure of calorically restricted rats is higher than predicted from their altered body composition. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 783-793.	4.6	88
24	Replication of Extended Lifespan Phenotype in Mice with Deletion of Insulin Receptor Substrate 1. <i>PLoS ONE</i> , 2011, 6, e16144.	2.5	81
25	Life-long vitamin C supplementation in combination with cold exposure does not affect oxidative damage or lifespan in mice, but decreases expression of antioxidant protection genes. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 897-904.	4.6	80
26	OXIDATIVE DAMAGE INCREASES WITH REPRODUCTIVE ENERGY EXPENDITURE AND IS REDUCED BY FOOD-SUPPLEMENTATION. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 67, no-no.	2.3	78
27	The impact of experimentally elevated energy expenditure on oxidative stress and lifespan in the short-tailed field vole <i>Microtus agrestis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1907-1916.	2.6	76
28	The consequences of acute cold exposure on protein oxidation and proteasome activity in short-tailed field voles, <i>Microtus agrestis</i> . <i>Free Radical Biology and Medicine</i> , 2002, 33, 259-265.	2.9	71
29	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. <i>Cell Metabolism</i> , 2017, 25, 1320-1333.e5.	16.2	71
30	Mammalian models of extended healthy lifespan. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 99-107.	4.0	68
31	Caloric restriction reveals a metabolomic and lipidomic signature in liver of male mice. <i>Aging Cell</i> , 2014, 13, 828-837.	6.7	63
32	Decreased mitochondrial metabolic requirements in fasting animals carry an oxidative cost. <i>Functional Ecology</i> , 2018, 32, 2149-2157.	3.6	60
33	Interventions for age-related diseases: Shifting the paradigm. <i>Mechanisms of Ageing and Development</i> , 2016, 160, 69-92.	4.6	57
34	Antioxidant enzyme activities, lipid peroxidation, and DNA oxidative damage: the effects of short-term voluntary wheel running. <i>Archives of Biochemistry and Biophysics</i> , 2002, 401, 255-261.	3.0	54
35	The impact of acute caloric restriction on the metabolic phenotype in male C57BL/6 and DBA/2 mice. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 111-118.	4.6	53
36	Metabotyping of Long-Lived Mice using ^1H NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2012, 11, 2224-2235.	3.7	53

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37	Comment on "Brain IRS2 Signaling Coordinates Life Span and Nutrient Homeostasis". <i>Science</i> , 2008, 320, 1012-1012.	12.6	48
38	Deleterious consequences of antioxidant supplementation on lifespan in a wild-derived mammal. <i>Biology Letters</i> , 2013, 9, 20130432.	2.3	48
39	Variation in Metabolic Rate among Individuals Is Related to Tissue-Specific Differences in Mitochondrial Leak Respiration. <i>Physiological and Biochemical Zoology</i> , 2016, 89, 511-523.	1.5	47
40	Short-Term Caloric Restriction and Sites of Oxygen Radical Generation in Kidney and Skeletal Muscle Mitochondria. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 333-342.	3.8	42
41	Allostatic load and ageing: linking the microbiome and nutrition with age-related health. <i>Biochemical Society Transactions</i> , 2019, 47, 1165-1172.	3.4	41
42	Meta-analysis of gene expression in the mouse liver reveals biomarkers associated with inflammation increased early during aging. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 467-478.	4.6	39
43	Dietary restriction increases skeletal muscle mitochondrial respiration but not mitochondrial content in C57BL/6 mice. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 37-45.	4.6	39
44	OXIDATIVE STRESS AND THE EVOLUTION OF SEX DIFFERENCES IN LIFE SPAN AND AGEING IN THE DECORATED CRICKET, <i>Grylloides sigillatus</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 620-634.	2.3	38
45	Ageing: It's a Dog's Life. <i>Current Biology</i> , 2013, 23, R451-R453.	3.9	37
46	Differences in mitochondrial efficiency explain individual variation in growth performance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191466.	2.6	37
47	Vitamin E supplementation and mammalian lifespan. <i>Molecular Nutrition and Food Research</i> , 2010, 54, 719-725.	3.3	35
48	Dietary restriction and the pursuit of effective mimetics. <i>Proceedings of the Nutrition Society</i> , 2014, 73, 260-270.	1.0	35
49	Extracellular Vesicles, Ageing, and Therapeutic Interventions. <i>Cells</i> , 2018, 7, 110.	4.1	35
50	Lifespan Modulation in Mice and the Confounding Effects of Genetic Background. <i>Journal of Genetics and Genomics</i> , 2014, 41, 497-503.	3.9	34
51	Inadequate food intake at high temperatures is related to depressed mitochondrial respiratory capacity. <i>Journal of Experimental Biology</i> , 2016, 219, 1356-62.	1.7	34
52	Effects of dietary calcium restriction and acute exercise on the antioxidant enzyme system and oxidative stress in rat diaphragm. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R33-R38.	1.8	33
53	Thermoregulatory responses of two mouse <i>Mus musculus</i> strains selectively bred for high and low food intake. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2001, 171, 661-668.	1.5	32
54	Simultaneous measurement of mitochondrial respiration and ATP production in tissue homogenates and calculation of effective P/O ratios. <i>Physiological Reports</i> , 2016, 4, e13007.	1.7	30

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55	Microvesicles as Vehicles for Tissue Regeneration: Changing of the Guards. <i>Current Pathobiology Reports</i> , 2016, 4, 181-187.	3.4	29
56	Lifelong α -Tocopherol Supplementation Increases the Median Life Span of C57BL/6 Mice in the Cold but Has Only Minor Effects on Oxidative Damage. <i>Rejuvenation Research</i> , 2008, 11, 83-96.	1.8	28
57	Proteostasis and ageing: insights from long-lived mutant mice. <i>Journal of Physiology</i> , 2017, 595, 6383-6390.	2.9	27
58	Role of Central Nervous System and Ovarian Insulin Receptor Substrate 2 Signaling in Female Reproductive Function in the Mouse. <i>Biology of Reproduction</i> , 2007, 76, 1045-1053.	2.7	25
59	Putting a strain on diversity. <i>EMBO Journal</i> , 2018, 37, .	7.8	24
60	The RCR and ATP/O Indices Can Give Contradictory Messages about Mitochondrial Efficiency. <i>Integrative and Comparative Biology</i> , 2018, 58, 486-494.	2.0	24
61	Hydrogen sulfide in ageing, longevity and disease. <i>Biochemical Journal</i> , 2021, 478, 3485-3504.	3.7	24
62	Evidence of a metabolic memory to early-life dietary restriction in male C57BL/6 mice. <i>Longevity & Healthspan</i> , 2012, 1, 2.	6.7	23
63	Short-term caloric restriction and regulatory proteins of apoptosis in heart, skeletal muscle and kidney of Fischer 344 rats. <i>Biogerontology</i> , 2003, 4, 141-147.	3.9	22
64	Plasma markers of oxidative stress are uncorrelated in a wild mammal. <i>Ecology and Evolution</i> , 2015, 5, 5096-5108.	1.9	22
65	The parasitic worm product ES-62 promotes health- and life-span in a high calorie diet-accelerated mouse model of ageing. <i>PLoS Pathogens</i> , 2020, 16, e1008391.	4.7	22
66	Ageing in the wild: Insights from free-living and non-model organisms. <i>Experimental Gerontology</i> , 2015, 71, 1-3.	2.8	21
67	A double whammy for aging? Rapamycin extends lifespan and inhibits cancer in inbred female mice. <i>Cell Cycle</i> , 2012, 11, 18-18.	2.6	20
68	Marker-dependent associations among oxidative stress, growth and survival during early life in a wild mammal. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161407.	2.6	20
69	Deletion of myeloid IRS2 enhances adipose tissue sympathetic nerve function and limits obesity. <i>Molecular Metabolism</i> , 2019, 20, 38-50.	6.5	18
70	Growth acceleration results in faster telomere shortening later in life. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211118.	2.6	18
71	Increased hepatic apoptosis during short-term caloric restriction is not associated with an enhancement in caspase levels. <i>Experimental Gerontology</i> , 2003, 38, 897-903.	2.8	17
72	Disentangling the effect of dietary restriction on mitochondrial function using recombinant inbred mice. <i>Molecular and Cellular Endocrinology</i> , 2017, 455, 41-53.	3.2	15

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73	Testing the Effects of DL-Alpha-Tocopherol Supplementation on Oxidative Damage, Total Antioxidant Protection and the Sex-Specific Responses of Reproductive Effort and Lifespan to Dietary Manipulation in Australian Field Crickets (<i>Teleogryllus commodus</i>). <i>Antioxidants</i> , 2015, 4, 768-792.	5.1	14
74	Chronic helminth infection burden differentially affects haematopoietic cell development while ageing selectively impairs adaptive responses to infection. <i>Scientific Reports</i> , 2018, 8, 3802.	3.3	14
75	Evidence that hematopoietic stem cell function is preserved during aging in long-lived S6K1 mutant mice. <i>Oncotarget</i> , 2016, 7, 29937-29943.	1.8	14
76	Synthetic small molecule analogues of the immunomodulatory <i>Acanthocheilonema viteae</i> product ES-62 promote metabolic homeostasis during obesity in a mouse model. <i>Molecular and Biochemical Parasitology</i> , 2019, 234, 111232.	1.1	11
77	RNA Polymerase III, Ageing and Longevity. <i>Frontiers in Genetics</i> , 2021, 12, 705122.	2.3	11
78	Nutritional Geometry Provides Food for Thought. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 956-959.	3.6	10
79	Effects of a specific MCHR1 antagonist (GW803430) on energy budget and glucose metabolism in diet-induced obese mice. <i>Obesity</i> , 2014, 22, 681-690.	3.0	10
80	Strain-specificity in the hydrogen sulphide signalling network following dietary restriction in recombinant inbred mice. <i>GeroScience</i> , 2020, 42, 801-812.	4.6	10
81	Alterations in tissue aerobic capacity may play a role in premigratory fattening in shorebirds. <i>Biology Letters</i> , 2005, 1, 101-104.	2.3	9
82	Models of insulin signalling and longevity. <i>Drug Discovery Today: Disease Models</i> , 2005, 2, 249-256.	1.2	9
83	The hepatic compensatory response to elevated systemic sulfide promotes diabetes. <i>Cell Reports</i> , 2021, 37, 109958.	6.4	9
84	Dietary restriction in ILSXISS mice is associated with widespread changes in splicing regulatory factor expression levels. <i>Experimental Gerontology</i> , 2019, 128, 110736.	2.8	8
85	Photoperiodic regulation in a wild-derived mouse strain. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	8
86	Common and unique transcriptional responses to dietary restriction and loss of insulin receptor substrate 1 (IRS1) in mice. <i>Aging</i> , 2018, 10, 1027-1052.	3.1	8
87	Mendelian randomization analyses implicate biogenesis of translation machinery in human aging. <i>Genome Research</i> , 2022, 32, 258-265.	5.5	7
88	Voluntary Exercise Has Only Limited Effects on Activity of Antioxidant Enzymes and Does Not Cause Oxidative Damage in a Small Mammal. <i>Journal of Nutrition</i> , 2002, 132, 1784S-1786S.	2.9	6
89	Measurement of mitochondrial respiration in permeabilized fish gills. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
90	Strain-specific metabolic responses to long-term caloric restriction in female ILSXISS recombinant inbred mice. <i>Molecular and Cellular Endocrinology</i> , 2021, 535, 111376.	3.2	6

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91	Optoelectronic tweezers for the measurement of the relative stiffness of erythrocytes. Proceedings of SPIE, 2012, , .	0.8	5
92	Longevity of insulin receptor substrate1 null mice is not associated with increased basal antioxidant protection or reduced oxidative damage. Age, 2013, 35, 647-658.	3.0	5
93	Using Doubly-Labeled Water to Measure Energy Expenditure in an Important Small Ectotherm Drosophila melanogaster. Journal of Genetics and Genomics, 2014, 41, 505-512.	3.9	5
94	Progressing the care, husbandry and management of ageing mice used in scientific studies. Laboratory Animals, 2020, 54, 225-238.	1.0	5
95	Fibroblasts derived from long-lived insulin receptor substrate 1 null mice are not resistant to multiple forms of stress. Aging Cell, 2014, 13, 962-964.	6.7	4
96	An atypical switch for metabolism and ageing. Nature, 2017, 542, 299-300.	27.8	2
97	Oxidative stress in wild European rabbits naturally infected with myxoma virus and rabbit haemorrhagic disease virus. European Journal of Wildlife Research, 2018, 64, 1.	1.4	2
98	Inter-individual variation in mitochondrial phosphorylation efficiency predicts growth rates in ectotherms at high temperatures. FASEB Journal, 2022, 36, e22333.	0.5	1
99	Metabolic rate through the life-course: From the organism to the organelle. Experimental Gerontology, 2020, 140, 111059.	2.8	0