

Daniel E L Promislow

List of Publications by Citations

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117
papers

4,427
citations

34
h-index

64
g-index

207
ext. papers

5,451
ext. citations

6.9
avg, IF

6.26
L-index

#	Paper	IF	Citations
117	Living fast and dying young: A comparative analysis of life-history variation among mammals. <i>Journal of Zoology</i> , 1990 , 220, 417-437	2	866
116	Mortality in north american dogs from 1984 to 2004: an investigation into age-, size-, and breed-related causes of death. <i>Journal of Veterinary Internal Medicine</i> , 2011 , 25, 187-98	3.1	200
115	SENESCENCE IN NATURAL POPULATIONS OF MAMMALS: A COMPARATIVE STUDY. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1869-1887	3.8	173
114	Evolution of alternative sex-determining mechanisms in teleost fishes. <i>Biological Journal of the Linnean Society</i> , 2006 , 87, 83-93	1.9	169
113	Geographical distribution and diversity of bacteria associated with natural populations of <i>Drosophila melanogaster</i> . <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3470-9	4.8	167
112	PHYLOGENETIC PERSPECTIVES IN THE EVOLUTION OF PARENTAL CARE IN RAY-FINDED FISHES. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 1570-1578	3.8	121
111	Protein networks, pleiotropy and the evolution of senescence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 1225-34	4.4	119
110	Mate choice, sexual conflict, and evolution of senescence. <i>Behavior Genetics</i> , 2003 , 33, 191-201	3.2	115
109	The size-life span trade-off decomposed: why large dogs die young. <i>American Naturalist</i> , 2013 , 181, 492-505	5.5	103
108	A randomized controlled trial to establish effects of short-term rapamycin treatment in 24 middle-aged companion dogs. <i>GeroScience</i> , 2017 , 39, 117-127	8.9	94
107	A Geroscience Perspective on COVID-19 Mortality. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, e30-e33	6.4	91
106	Effects of age, sex, and genotype on high-sensitivity metabolomic profiles in the fruit fly, <i>Drosophila melanogaster</i> . <i>Aging Cell</i> , 2014 , 13, 596-604	9.9	86
105	Reproductive capability is associated with lifespan and cause of death in companion dogs. <i>PLoS ONE</i> , 2013 , 8, e61082	3.7	83
104	A network perspective on metabolism and aging. <i>Integrative and Comparative Biology</i> , 2010 , 50, 844-54	2.8	83
103	OMICS IN AGING RESEARCH: FROM BIOMARKERS TO SYSTEMS BIOLOGY. <i>Innovation in Aging</i> , 2019 , 3, S234-S234	0.1	78
102	The dog aging project: translational geroscience in companion animals. <i>Mammalian Genome</i> , 2016 , 27, 279-88	3.2	75
101	The effects of graded levels of calorie restriction: I. impact of short term calorie and protein restriction on body composition in the C57BL/6 mouse. <i>Oncotarget</i> , 2015 , 6, 15902-30	3.3	65

100	Age-specific metabolic rates and mortality rates in the genus <i>Drosophila</i> . <i>Aging Cell</i> , 2002 , 1, 66-74	9.9	62
99	Significant mobilization of both conventional and regulatory T cells with AMD3100. <i>Blood</i> , 2011 , 118, 6580-90	2.2	58
98	The effects of graded levels of calorie restriction: II. Impact of short term calorie and protein restriction on circulating hormone levels, glucose homeostasis and oxidative stress in male C57BL/6 mice. <i>Oncotarget</i> , 2015 , 6, 23213-37	3.3	56
97	The companion dog as a model for human aging and mortality. <i>Aging Cell</i> , 2018 , 17, e12737	9.9	54
96	The effects of age and dietary restriction on the tissue-specific metabolome of <i>Drosophila</i> . <i>Aging Cell</i> , 2015 , 14, 797-808	9.9	50
95	Proteomics and metabolomics in ageing research: from biomarkers to systems biology. <i>Essays in Biochemistry</i> , 2017 , 61, 379-388	7.6	49
94	Mortality rates of mammals. <i>Journal of Zoology</i> , 1997 , 243, 1-12	2	47
93	Advice to an aging scientist. <i>Mechanisms of Ageing and Development</i> , 2002 , 123, 841-50	5.6	44
92	Toward reconciling inferences concerning genetic variation in senescence in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999 , 152, 553-66	4	43
91	Transcriptome analysis of GVHD reveals aurora kinase A as a targetable pathway for disease prevention. <i>Science Translational Medicine</i> , 2015 , 7, 315ra191	17.5	41
90	Sex-specific effects of interventions that extend fly life span. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004 , 2004, pe30		41
89	The impacts of <i>Wolbachia</i> and the microbiome on mate choice in <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2016 , 29, 461-8	2.3	39
88	Evolutionary Ecology of Senescence and a Reassessment of Williams's Extrinsic Mortality Hypothesis. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 519-530	10.9	38
87	MetabNet: An R Package for Metabolic Association Analysis of High-Resolution Metabolomics Data. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 87	5.8	38
86	The effects of graded levels of calorie restriction: III. Impact of short term calorie and protein restriction on mean daily body temperature and torpor use in the C57BL/6 mouse. <i>Oncotarget</i> , 2015 , 6, 18314-37	3.3	38
85	Metabolome-wide association study of phenylalanine in plasma of common marmosets. <i>Amino Acids</i> , 2015 , 47, 589-601	3.5	36
84	Mating system change reduces the strength of sexual selection in an American frontier population of the 19th century. <i>Evolution and Human Behavior</i> , 2011 , 32, 147-155	4	34
83	What can genetic variation tell us about the evolution of senescence?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 2271-8	4.4	33

82	The effects of graded levels of calorie restriction: IX. Global metabolomic screen reveals modulation of carnitines, sphingolipids and bile acids in the liver of C57BL/6 mice. <i>Aging Cell</i> , 2017 , 16, 529-540	9.9	32
81	Rapamycin enhances survival in a Drosophila model of mitochondrial disease. <i>Oncotarget</i> , 2016 , 7, 80131-80139	3.9	32
80	Mate choice in fruit flies is rational and adaptive. <i>Nature Communications</i> , 2017 , 8, 13953	17.4	31
79	A comparative assessment of univariate longevity measures using zoological animal records. <i>Aging Cell</i> , 2012 , 11, 940-8	9.9	31
78	A regulatory network analysis of phenotypic plasticity in yeast. <i>American Naturalist</i> , 2005 , 165, 515-23	3.7	30
77	The effects of graded levels of calorie restriction: V. Impact of short term calorie and protein restriction on physical activity in the C57BL/6 mouse. <i>Oncotarget</i> , 2016 , 7, 19147-70	3.3	30
76	Kin competition, natal dispersal and the moulding of senescence by natural selection. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 3659-67	4.4	29
75	Asymptomatic heart valve dysfunction in healthy middle-aged companion dogs and its implications for cardiac aging. <i>GeroScience</i> , 2017 , 39, 43-50	8.9	27
74	Cross-generational fitness effects of infection in Drosophila melanogaster. <i>Fly</i> , 2009 , 3, 143-50	1.3	27
73	Perceptive costs of reproduction drive ageing and physiology in male Drosophila. <i>Nature Ecology and Evolution</i> , 2017 , 1, 152	12.3	26
72	Age-specific effects of novel mutations in Drosophila melanogaster II. Fecundity and male mating ability. <i>Genetica</i> , 2000 , 110, 31-41	1.5	25
71	Immune parameter analysis of children with sickle cell disease on hydroxycarbamide or chronic transfusion therapy. <i>British Journal of Haematology</i> , 2015 , 169, 574-83	4.5	24
70	Sarcosine Is Uniquely Modulated by Aging and Dietary Restriction in Rodents and Humans. <i>Cell Reports</i> , 2018 , 25, 663-676.e6	10.6	24
69	Genetic screen identifies adaptive aneuploidy as a key mediator of ER stress resistance in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9586-9591	11.5	24
68	The Companion Dog as a Model for the Longevity Dividend. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016 , 6, a026633	5.4	23
67	The effects of graded levels of calorie restriction: XI. Evaluation of the main hypotheses underpinning the life extension effects of CR using the hepatic transcriptome. <i>Aging</i> , 2017 , 9, 1770-1824	5.6	23
66	Genetic and metabolomic architecture of variation in diet restriction-mediated lifespan extension in Drosophila. <i>PLoS Genetics</i> , 2020 , 16, e1008835	6	22
65	All's well that ends well: why large species have short telomeres. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	21

64	Characterization of plasma thiol redox potential in a common marmoset model of aging. <i>Redox Biology</i> , 2013 , 1, 387-93	11.3	20
63	Metabolic Characterization of the Common Marmoset (<i>Callithrix jacchus</i>). <i>PLoS ONE</i> , 2015 , 10, e0142916.7	6.7	20
62	The effects of graded levels of calorie restriction: VI. Impact of short-term graded calorie restriction on transcriptomic responses of the hypothalamic hunger and circadian signaling pathways. <i>Aging</i> , 2016 , 8, 642-63	5.6	20
61	The effects of graded levels of calorie restriction: VIII. Impact of short term calorie and protein restriction on basal metabolic rate in the C57BL/6 mouse. <i>Oncotarget</i> , 2017 , 8, 17453-17474	3.3	20
60	A longitudinal analysis of the effects of age on the blood plasma metabolome in the common marmoset, <i>Callithrix jacchus</i> . <i>Experimental Gerontology</i> , 2016 , 76, 17-24	4.5	20
59	Evolution: aging up a tree?. <i>Current Biology</i> , 2010 , 20, R406-8	6.3	18
58	Body size, inbreeding, and lifespan in domestic dogs. <i>Conservation Genetics</i> , 2020 , 21, 137-148	2.6	17
57	Invariance and plasticity in the <i>Drosophila melanogaster</i> metabolomic network in response to temperature. <i>BMC Systems Biology</i> , 2014 , 8, 139	3.5	16
56	Direct and correlated responses to selection on age at physiological maturity in <i>Drosophila simulans</i> . <i>Journal of Evolutionary Biology</i> , 2000 , 13, 955-966	2.3	16
55	The effects of graded levels of calorie restriction: IV. Non-linear change in behavioural phenotype of mice in response to short-term calorie restriction. <i>Scientific Reports</i> , 2015 , 5, 13198	4.9	15
54	Evolutionary demography and quantitative genetics: age-specific survival as a threshold trait. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 144-51	4.4	15
53	The effects of graded levels of calorie restriction: VII. Topological rearrangement of hypothalamic aging networks. <i>Aging</i> , 2016 , 8, 917-32	5.6	15
52	Canine hyperadrenocorticism associations with signalment, selected comorbidities and mortality within North American veterinary teaching hospitals. <i>Journal of Small Animal Practice</i> , 2018 , 59, 681-690	1.6	14
51	Multiple morbidities in companion dogs: a novel model for investigating age-related disease. <i>Pathobiology of Aging & Age Related Diseases</i> , 2016 , 6, 33276	1.3	14
50	Humanity's Best Friend: A Dog-Centric Approach to Addressing Global Challenges. <i>Animals</i> , 2020 , 10,	3.1	13
49	GWAS for Lifespan and Decline in Climbing Ability in Flies upon Dietary Restriction Reveal decima as a Mediator of Insulin-like Peptide Production. <i>Current Biology</i> , 2020 , 30, 2749-2760.e3	6.3	13
48	Biomarkers for Aging Identified in Cross-sectional Studies Tend to Be Non-causative. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 466-472	6.4	13
47	FITNESS COSTS OF FEMALE REPRODUCTION. <i>Evolution; International Journal of Organic Evolution</i> , 1997 , 51, 1323-1326	3.8	12

46	Lifespan of companion dogs seen in three independent primary care veterinary clinics in the United States. <i>Canine Medicine and Genetics</i> , 2020 , 7, 7	2.1	11
45	The Effects of Graded Levels of Calorie Restriction: X. Transcriptomic Responses of Epididymal Adipose Tissue. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 279-288	6.4	11
44	Fertile waters for aging research. <i>Cell</i> , 2015 , 160, 814-815	56.2	9
43	The Effects of Graded Levels of Calorie Restriction: XIV. Global Metabolomics Screen Reveals Brown Adipose Tissue Changes in Amino Acids, Catecholamines, and Antioxidants After Short-Term Restriction in C57BL/6 Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 16-26	6.4	9
42	Defining the impact of mutation accumulation on replicative lifespan in yeast using cancer-associated mutator phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3062-3071	11.5	8
41	Age- and Genotype-Specific Effects of the Angiotensin-Converting Enzyme Inhibitor Lisinopril on Mitochondrial and Metabolic Parameters in. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	8
40	Tissue-specific insulin signaling mediates female sexual attractiveness. <i>PLoS Genetics</i> , 2017 , 13, e1006936		7
39	The Effects of Graded Levels of Calorie Restriction: XIII. Global Metabolomics Screen Reveals Graded Changes in Circulating Amino Acids, Vitamins, and Bile Acids in the Plasma of C57BL/6 Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 16-26	6.4	6
38	Recent Advances in the Systems Biology of Aging. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 973-984	8.4	6
37	Metabolic Signatures of Life Span Regulated by Mating, Sex Peptide, and Mifepristone/RU486 in Female <i>Drosophila melanogaster</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021 , 76, 195-204	6.4	6
36	The metabolome as a link in the genotype-phenotype map for peroxide resistance in the fruit fly, <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2020 , 21, 341	4.5	5
35	Answering evolutionary questions: A guide for mechanistic biologists. <i>BioEssays</i> , 2016 , 38, 704-11	4.1	5
34	Research to Promote Longevity and Health Span in Companion Dogs: A Pediatric Perspective. <i>American Journal of Bioethics</i> , 2018 , 18, 64-65	1.1	5
33	An open science study of ageing in companion dogs.. <i>Nature</i> , 2022 , 602, 51-57	50.4	4
32	The metabolome as a biomarker of mortality risk in the common marmoset. <i>American Journal of Primatology</i> , 2019 , 81, e22944	2.5	4
31	The Effects of Graded Levels of Calorie Restriction: XVI. Metabolomic Changes in the Cerebellum Indicate Activation of Hypothalamocerebellar Connections Driven by Hunger Responses. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021 , 76, 601-610	6.4	4
30	Calorie restriction prevents age-related changes in the intestinal microbiota. <i>Aging</i> , 2021 , 13, 6298-6329	5.6	3
29	Serotonin signaling modulates aging-associated metabolic network integrity in response to nutrient choice in <i>Drosophila melanogaster</i> . <i>Communications Biology</i> , 2021 , 4, 740	6.7	3

28	Past and present resource availability affect mating rate but not mate choice in. <i>Behavioral Ecology</i> , 2018 , 29, 1409-1414	2.3	3
27	George C. Williams's Problematic Model of Selection and Senescence: Time to Move on. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 303-305	10.9	2
26	Evaluation of a low-technology system to obtain morphological and mobility trial measurements in dogs and investigation of potential predictors of canine mobility. <i>American Journal of Veterinary Research</i> , 2019 , 80, 670-679	1.1	2
25	Plasma Metabolomics of Common Marmosets (<i>Callithrix jacchus</i>) to Evaluate Diet and Feeding Husbandry. <i>Journal of the American Association for Laboratory Animal Science</i> , 2016 , 55, 137-46	1.3	2
24	Effects of myocardial ischemia/reperfusion injury on plasma metabolomic profile during aging. <i>Aging Cell</i> , 2021 , 20, e13284	9.9	2
23	Healthy, Active Aging for People and Dogs. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 655191	3.1	2
22	Mifepristone Increases Life Span of Virgin Female on Regular and High-fat Diet Without Reducing Food Intake. <i>Frontiers in Genetics</i> , 2021 , 12, 751647	4.5	2
21	Cross species application of quantitative neuropathology assays developed for clinical Alzheimer's disease samples. <i>Pathobiology of Aging & Age Related Diseases</i> , 2019 , 9, 1657768	1.3	1
20	The Effects of Graded Levels of Calorie Restriction XV: Phase Space Attractors Reveal Distinct Behavioral Phenotypes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 858-866	6.4	1
19	Development. Chemical warfare in the battle of the sexes. <i>Science</i> , 2014 , 343, 491-2	33.3	1
18	The metabolome as a biomarker of aging in <i>Drosophila melanogaster</i> .. <i>Aging Cell</i> , 2022 , e13548	9.9	1
17	Life-History Variation and Demography in Western Bluebirds (<i>Sialia Mexicana</i>) in Oregon. <i>Auk</i> , 2004 , 121, 118-133	2.1	1
16	Dog Models of Aging. <i>Annual Review of Animal Biosciences</i> , 2021 ,	13.7	1
15	<i>Pterocarpus marsupium</i> extract extends replicative lifespan in budding yeast. <i>GeroScience</i> , 2021 , 43, 2595-2609	8.9	1
14	The Biology of Aging in Insects: From to Other Insects and Back. <i>Annual Review of Entomology</i> , 2021 ,	21.8	1
13	Williams's Intuition about Extrinsic Mortality Is Irrelevant. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 379	10.9	0
12	CorDiffViz: an R package for visualizing multi-omics differential correlation networks. <i>BMC Bioinformatics</i> , 2021 , 22, 486	3.6	0
11	Resilience integrates concepts in aging research.. <i>iScience</i> , 2022 , 25, 104199	6.1	0

10	Once-daily feeding is associated with better health in companion dogs: results from the Dog Aging Project.. <i>GeroScience</i> , 2022 , 1	8.9	o
9	Robert L. Perlman, evolution & medicine. <i>Evolution, Medicine and Public Health</i> , 2014 , 2014, 10-1	3	
8	Reasons for Exclusion of Apparently Healthy Mature Adult and Senior Dogs From a Clinical Trial. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 651698	3.1	
7	University of Washington Nathan Shock Center: innovation to advance aging research. <i>GeroScience</i> , 2021 , 43, 2161-2165	8.9	
6	A New Concept in Diet Restriction Is Cleaning Up!. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021 , 76, 599-600	6.4	
5	A fly GWAS for purine metabolites identifies human FAM214 homolog medusa, which acts in a conserved manner to enhance hyperuricemia-driven pathologies by modulating purine metabolism and the inflammatory response.. <i>GeroScience</i> , 2022 , 1	8.9	
4	Genetic and metabolomic architecture of variation in diet restriction-mediated lifespan extension in <i>Drosophila</i> 2020 , 16, e1008835		
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