

Daniel E L Promislow

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

6,105
citations

101543

36
h-index

85541

71
g-index

208
all docs

208
docs citations

208
times ranked

7047
citing authors

#	ARTICLE	IF	CITATIONS
1	Living fast and dying young: A comparative analysis of life-history variation among mammals. <i>Journal of Zoology</i> , 1990, 220, 417-437.	1.7	1,049
2	Mortality in North American Dogs from 1984 to 2004: An Investigation into Age-Related, Size-Related, and Breed-Related Causes of Death. <i>Journal of Veterinary Internal Medicine</i> , 2011, 25, 187-198.	1.6	306
3	SENESCENCE IN NATURAL POPULATIONS OF MAMMALS: A COMPARATIVE STUDY. <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 1869-1887.	2.3	220
4	Evolution of alternative sex-determining mechanisms in teleost fishes. <i>Biological Journal of the Linnean Society</i> , 0, 87, 83-93.	1.6	207
5	Geographical Distribution and Diversity of Bacteria Associated with Natural Populations of <i>Drosophila melanogaster</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 3470-3479.	3.1	200
6	The Size-Life Span Trade-Off Decomposed: Why Large Dogs Die Young. <i>American Naturalist</i> , 2013, 181, 492-505.	2.1	158
7	Protein networks, pleiotropy and the evolution of senescence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 1225-1234.	2.6	155
8	A Geroscience Perspective on COVID-19 Mortality. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, e30-e33.	3.6	155
9	PHYLOGENETIC PERSPECTIVES IN THE EVOLUTION OF PARENTAL CARE IN RAY-FINNED FISHES. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1570-1578.	2.3	147
10	Mate choice, sexual conflict, and evolution of senescence. <i>Behavior Genetics</i> , 2003, 33, 191-201.	2.1	136
11	Reproductive Capability Is Associated with Lifespan and Cause of Death in Companion Dogs. <i>PLoS ONE</i> , 2013, 8, e61082.	2.5	126
12	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.	4.6	125
13	The dog aging project: translational geroscience in companion animals. <i>Mammalian Genome</i> , 2016, 27, 279-288.	2.2	111
14	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.	6.7	107
15	The companion dog as a model for human aging and mortality. <i>Aging Cell</i> , 2018, 17, e12737.	6.7	101
16	A Network Perspective on Metabolism and Aging. <i>Integrative and Comparative Biology</i> , 2010, 50, 844-854.	2.0	94
17	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, 15902-15930.	1.8	89
18	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, 23213-23237.	1.8	76

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19	Proteomics and metabolomics in ageing research: from biomarkers to systems biology. <i>Essays in Biochemistry</i> , 2017, 61, 379-388.	4.7	74
20	The effects of age and dietary restriction on the tissue-specific metabolome of <i>Drosophila</i> . <i>Aging Cell</i> , 2015, 14, 797-808.	6.7	72
21	Age-specific metabolic rates and mortality rates in the genus <i>Drosophila</i> . <i>Aging Cell</i> , 2002, 1, 66-74.	6.7	66
22	Transcriptome analysis of GVHD reveals aurora kinase A as a targetable pathway for disease prevention. <i>Science Translational Medicine</i> , 2015, 7, 315ra191.	12.4	64
23	Significant mobilization of both conventional and regulatory T cells with AMD3100. <i>Blood</i> , 2011, 118, 6580-6590.	1.4	61
24	Advice to an aging scientist. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 841-850.	4.6	58
25	Rapamycin enhances survival in a <i>Drosophila</i> model of mitochondrial disease. <i>Oncotarget</i> , 2016, 7, 80131-80139.	1.8	57
26	Mortality rates of mammals. <i>Journal of Zoology</i> , 1997, 243, 1-12.	1.7	56
27	Evolutionary Ecology of Senescence and a Reassessment of Williams's "Extrinsic Mortality" Hypothesis. <i>Trends in Ecology and Evolution</i> , 2019, 34, 519-530.	8.7	55
28	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, 461-468.	1.7	52
29	Body size, inbreeding, and lifespan in domestic dogs. <i>Conservation Genetics</i> , 2020, 21, 137-148.	1.5	51
30	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, 18314-18337.	1.8	51
31	Genetic and metabolomic architecture of variation in diet restriction-mediated lifespan extension in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2020, 16, e1008835.	3.5	49
32	Toward Reconciling Inferences Concerning Genetic Variation in Senescence in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999, 152, 553-566.	2.9	49
33	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.	6.7	48
34	Sex-Specific Effects of Interventions That Extend Fly Life Span. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, pe30-pe30.	0.8	47
35	Kin competition, natal dispersal and the moulding of senescence by natural selection. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3659-3667.	2.6	45
36	Perceptive costs of reproduction drive ageing and physiology in male <i>Drosophila</i> . <i>Nature Ecology and Evolution</i> , 2017, 1, 152.	7.8	43

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37	Sarcosine Is Uniquely Modulated by Aging and Dietary Restriction in Rodents and Humans. Cell Reports, 2018, 25, 663-676.e6.	6.4	43
38	An open science study of ageing in companion dogs. Nature, 2022, 602, 51-57.	27.8	43
39	Mate choice in fruit flies is rational and adaptive. Nature Communications, 2017, 8, 13953.	12.8	42
40	What can genetic variation tell us about the evolution of senescence?. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2271-2278.	2.6	41
41	A Regulatory Network Analysis of Phenotypic Plasticity in Yeast. American Naturalist, 2005, 165, 515-523.	2.1	40
42	MetabNet: An R Package for Metabolic Association Analysis of High-Resolution Metabolomics Data. Frontiers in Bioengineering and Biotechnology, 2015, 3, 87.	4.1	40
43	Mating system change reduces the strength of sexual selection in an American frontier population of the 19th century. Evolution and Human Behavior, 2011, 32, 147-155.	2.2	39
44	A comparative assessment of univariate longevity measures using zoological animal records. Aging Cell, 2012, 11, 940-948.	6.7	39
45	Metabolome-wide association study of phenylalanine in plasma of common marmosets. Amino Acids, 2015, 47, 589-601.	2.7	38
46	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. Oncotarget, 2016, 7, 19147-19170.	1.8	37
47	The Companion Dog as a Model for the Longevity Dividend. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a026633.	6.2	37
48	Cross-generational fitness effects of infection in <i>Drosophila melanogaster</i> . Fly, 2009, 3, 143-150.	1.7	36
49	Immune parameter analysis of children with sickle cell disease on hydroxycarbamide or chronic transfusion therapy. British Journal of Haematology, 2015, 169, 574-583.	2.5	36
50	GWAS for Lifespan and Decline in Climbing Ability in Flies upon Dietary Restriction Reveal decima as a Mediator of Insulin-like Peptide Production. Current Biology, 2020, 30, 2749-2760.e3.	3.9	34
51	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. Oncotarget, 2017, 8, 17453-17474.	1.8	34
52	Biomarkers for Aging Identified in Cross-sectional Studies Tend to Be Non-causative. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 466-472.	3.6	32
53	Genetic screen identifies adaptive aneuploidy as a key mediator of ER stress resistance in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9586-9591.	7.1	31
54	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. Aging, 2017, 9, 1770-1824.	3.1	30

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55	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.	4.0	30
56	Longevity and the barren aristocrat. <i>Nature</i> , 1998, 396, 719-720.	27.8	29
57	Asymptomatic heart valve dysfunction in healthy middle-aged companion dogs and its implications for cardiac aging. <i>GeroScience</i> , 2017, 39, 43-50.	4.6	29
58	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, 20160448.	4.0	28
59	Age-specific effects of novel mutations in <i>Drosophila melanogaster</i> II. Fecundity and male mating ability. <i>Genetica</i> , 2000, 110, 31-41.	1.1	27
60	Evolution: Aging Up a Tree?. <i>Current Biology</i> , 2010, 20, R406-R408.	3.9	25
61	Multiple morbidities in companion dogs: a novel model for investigating age-related disease. <i>Pathobiology of Aging & Age Related Diseases</i> , 2016, 6, 33276.	1.1	25
62	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.	1.2	25
63	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, 642-661.	3.1	24
64	Evolutionary demography and quantitative genetics: age-specific survival as a threshold trait. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 144-151.	2.6	23
65	Characterization of plasma thiol redox potential in a common marmoset model of aging. <i>Redox Biology</i> , 2013, 1, 387-393.	9.0	23
66	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.	2.8	23
67	Metabolic Characterization of the Common Marmoset (<i>Callithrix jacchus</i>). <i>PLoS ONE</i> , 2015, 10, e0142916.	2.5	22
68	The metabolome as a biomarker of aging in <i>Drosophila melanogaster</i> . <i>Aging Cell</i> , 2022, 21, e13548.	6.7	22
69	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.	3.3	21
70	Humanity's Best Friend: A Dog-Centric Approach to Addressing Global Challenges. <i>Animals</i> , 2020, 10, 502.	2.3	20
71	Dog Models of Aging. <i>Annual Review of Animal Biosciences</i> , 2022, 10, 419-439.	7.4	20
72	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.	1.7	19

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73	Invariance and plasticity in the <i>Drosophila melanogaster</i> metabolomic network in response to temperature. <i>BMC Systems Biology</i> , 2014, 8, 139.	3.0	19
74	A Metabolomic Aging Clock Using Human Cerebrospinal Fluid. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 744-754.	3.6	19
75	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.	3.6	18
76	Extending human healthspan and longevity: a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2022, 1507, 70-83.	3.8	18
77	The effects of graded levels of calorie restriction: VII. Topological rearrangement of hypothalamic aging networks. <i>Aging</i> , 2016, 8, 917-932.	3.1	18
78	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.	7.1	17
79	FITNESS COSTS OF FEMALE REPRODUCTION. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1323-1326.	2.3	16
80	Recent Advances in the Systems Biology of Aging. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 973-984.	5.4	15
81	Age- and Genotype-Specific Effects of the Angiotensin-Converting Enzyme Inhibitor Lisinopril on Mitochondrial and Metabolic Parameters in <i>Drosophila melanogaster</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 3351.	4.1	15
82	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.	3.6	14
83	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> , 2020, 75, 218-229.	3.6	14
84	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.	2.8	14
85	The Biology of Aging in Insects: From <i>Drosophila</i> to Other Insects and Back. <i>Annual Review of Entomology</i> , 2022, 67, 83-103.	11.8	14
86	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.	3.6	13
87	Calorie restriction prevents age-related changes in the intestinal microbiota. <i>Aging</i> , 2021, 13, 6298-6329.	3.1	11
88	KL1 Domain of Longevity Factor Klotho Mimics the Metabolome of Cognitive Stimulation and Enhances Cognition in Young and Aging Mice. <i>Journal of Neuroscience</i> , 2022, 42, 4016-4025.	3.6	11
89	Fertile Waters for Aging Research. <i>Cell</i> , 2015, 160, 814-815.	28.9	10
90	Tissue-specific insulin signaling mediates female sexual attractiveness. <i>PLoS Genetics</i> , 2017, 13, e1006935.	3.5	10

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91	Evaluation of a low-technology system to obtain morphological and mobility trial measurements in dogs and investigation of potential predictors of canine mobility. American Journal of Veterinary Research, 2019, 80, 670-679.	0.6	10
92	The effects of graded calorie restriction XVII: Multitissue metabolomics reveals synthesis of carnitine and NAD, and tRNA charging as key pathways. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
93	Age and Physical Activity Levels in Companion Dogs: Results From the Dog Aging Project. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 1986-1993.	3.6	10
94	Modular Evolution of the <i>Drosophila</i> Metabolome. Molecular Biology and Evolution, 2022, 39, .	8.9	9
95	Predictive Modeling of Alzheimer's and Parkinson's Disease Using Metabolomic and Lipidomic Profiles from Cerebrospinal Fluid. Metabolites, 2022, 12, 277.	2.9	9
96	Resilience integrates concepts in aging research. IScience, 2022, 25, 104199.	4.1	9
97	Answering evolutionary questions: A guide for mechanistic biologists. BioEssays, 2016, 38, 704-711.	2.5	8
98	Williams's Intuition about Extrinsic Mortality Is Irrelevant. Trends in Ecology and Evolution, 2020, 35, 379.	8.7	8
99	The Effects of Graded Levels of Calorie Restriction: XVI. Metabolomic Changes in the Cerebellum Indicate Activation of Hypothalamocerebellar Connections Driven by Hunger Responses. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 601-610.	3.6	8
100	Healthy, Active Aging for People and Dogs. Frontiers in Veterinary Science, 2021, 8, 655191.	2.2	8
101	Research to Promote Longevity and Health Span in Companion Dogs: A Pediatric Perspective. American Journal of Bioethics, 2018, 18, 64-65.	0.9	7
102	Mifepristone Increases Life Span of Virgin Female <i>Drosophila</i> on Regular and High-fat Diet Without Reducing Food Intake. Frontiers in Genetics, 2021, 12, 751647.	2.3	7
103	Effects of myocardial ischemia/reperfusion injury on plasma metabolomic profile during aging. Aging Cell, 2021, 20, e13284.	6.7	7
104	The metabolome as a biomarker of mortality risk in the common marmoset. American Journal of Primatology, 2019, 81, e22944.	1.7	6
105	Pterocarpus marsupium extract extends replicative lifespan in budding yeast. GeroScience, 2021, 43, 2595-2609.	4.6	6
106	Once-daily feeding is associated with better health in companion dogs: results from the Dog Aging Project. GeroScience, 2022, 44, 1779-1790.	4.6	6
107	Lifetime prevalence of malignant and benign tumours in companion dogs: Cross-sectional analysis of Dog Aging Project baseline survey. Veterinary and Comparative Oncology, 2022, 20, 797-804.	1.8	6
108	Past and present resource availability affect mating rate but not mate choice in <i>Drosophila melanogaster</i> . Behavioral Ecology, 2018, 29, 1409-1414.	2.2	4

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109	George C. Williams's™ Problematic Model of Selection and Senescence: Time to Move on. Trends in Ecology and Evolution, 2020, 35, 303-305.	8.7	4
110	CorDiffViz: an R package for visualizing multi-omics differential correlation networks. BMC Bioinformatics, 2021, 22, 486.	2.6	4
111	The Effects of Graded Levels of Calorie Restriction XV: Phase Space Attractors Reveal Distinct Behavioral Phenotypes. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 858-866.	3.6	3
112	Serotonin signaling modulates aging-associated metabolic network integrity in response to nutrient choice in <i>Drosophila melanogaster</i> . Communications Biology, 2021, 4, 740.	4.4	3
113	Chemical Warfare in the Battle of the Sexes. Science, 2014, 343, 491-492.	12.6	2
114	Cross species application of quantitative neuropathology assays developed for clinical Alzheimer's™ disease samples. Pathobiology of Aging & Age Related Diseases, 2019, 9, 1657768.	1.1	2
115	Life-History Variation and Demography in Western Bluebirds (<i>Sialia Mexicana</i>) in Oregon. Auk, 2004, 121, 118-133.	1.4	2
116	Plasma Metabolomics of Common Marmosets (<i>Callithrix jacchus</i>) to Evaluate Diet and Feeding Husbandry. Journal of the American Association for Laboratory Animal Science, 2016, 55, 137-46.	1.2	2
117	A New Concept in Diet Restriction Is Cleaning Up!. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 599-600.	3.6	1
118	Reasons for Exclusion of Apparently Healthy Mature Adult and Senior Dogs From a Clinical Trial. Frontiers in Veterinary Science, 2021, 8, 651698.	2.2	1
119	University of Washington Nathan Shock Center: innovation to advance aging research. GeroScience, 2021, 43, 2161-2165.	4.6	1
120	Genome-Wide Analyses for Lifespan and Healthspan in <i>D. Melanogaster</i> Reveal Decima as a Regulator of Insulin-Like Peptide Production. SSRN Electronic Journal, 0, , .	0.4	1
121	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. GeroScience, 2022, 44, 2195-2211.	4.6	1
122	Age-Independent Cardiac Protection by Pharmacological Activation of Beclin-1 During Endotoxemia and Its Association With Energy Metabolic Reprograming in Myocardium—A Targeted Metabolomics Study. Journal of the American Heart Association, 0, , .	3.7	1
123	Robert L. Perlman, Evolution & Medicine. Evolution, Medicine and Public Health, 2014, 2014, 10-11.	2.5	0
124	OMICS IN AGING RESEARCH: FROM BIOMARKERS TO SYSTEMS BIOLOGY. Innovation in Aging, 2019, 3, S234-S234.	0.1	0
125	Title is missing!. , 2020, 16, e1008835.		0
126	Title is missing!. , 2020, 16, e1008835.		0

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127	Title is missing!., 2020, 16, e1008835.		0
128	Title is missing!., 2020, 16, e1008835.		0