

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

94269

37
h-index

82410

72
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.	0.8	1,049
2	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, 187-198.	0.6	306
3	SENESCENCE IN NATURAL POPULATIONS OF MAMMALS: A COMPARATIVE STUDY. <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 1869-1887.	1.1	220
4	Evolution of alternative sex-determining mechanisms in teleost fishes. <i>Biological Journal of the Linnean Society</i> , 2006, 87, 83-93.	0.7	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.	1.4	200
6	The Size-Life Span Trade-Off Decomposed: Why Large Dogs Die Young. <i>American Naturalist</i> , 2013, 181, 492-505.	1.0	158
7	Protein networks, pleiotropy and the evolution of senescence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 1225-1234.	1.2	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.	1.7	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.	1.1	147
10	Mate choice, sexual conflict, and evolution of senescence. <i>Behavior Genetics</i> , 2003, 33, 191-201.	1.4	136
11	Reproductive Capability Is Associated with Lifespan and Cause of Death in Companion Dogs. <i>PLoS ONE</i> , 2013, 8, e61082.	1.1	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.	2.1	125
13	The dog aging project: translational geroscience in companion animals. <i>Mammalian Genome</i> , 2016, 27, 279-288.	1.0	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.	3.0	107
15	The companion dog as a model for human aging and mortality. <i>Aging Cell</i> , 2018, 17, e12737.	3.0	101
16	A Network Perspective on Metabolism and Aging. <i>Integrative and Comparative Biology</i> , 2010, 50, 844-854.	0.9	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.	0.8	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.	0.8	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.	2.1	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.	3.0	72
21	Age-specific metabolic rates and mortality rates in the genus <i>Drosophila</i> . <i>Aging Cell</i> , 2002, 1, 66-74.	3.0	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.	5.8	64
23	Significant mobilization of both conventional and regulatory T cells with AMD3100. <i>Blood</i> , 2011, 118, 6580-6590.	0.6	61
24	Advice to an aging scientist. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 841-850.	2.2	58
25	Rapamycin enhances survival in a <i>Drosophila</i> model of mitochondrial disease. <i>Oncotarget</i> , 2016, 7, 80131-80139.	0.8	57
26	Mortality rates of mammals. <i>Journal of Zoology</i> , 1997, 243, 1-12.	0.8	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.	4.2	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.	0.8	52
29	Body size, inbreeding, and lifespan in domestic dogs. <i>Conservation Genetics</i> , 2020, 21, 137-148.	0.8	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.	0.8	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.	1.5	49
32	Toward Reconciling Inferences Concerning Genetic Variation in Senescence in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999, 152, 553-566.	1.2	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.	3.0	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.	0.9	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.	1.2	45
36	Perceptive costs of reproduction drive ageing and physiology in male <i>Drosophila</i> . <i>Nature Ecology and Evolution</i> , 2017, 1, 152.	3.4	43

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37	Sarcosine Is Uniquely Modulated by Aging and Dietary Restriction in Rodents and Humans. <i>Cell Reports</i> , 2018, 25, 663-676.e6.	2.9	43
38	An open science study of ageing in companion dogs. <i>Nature</i> , 2022, 602, 51-57.	13.7	43
39	Mate choice in fruit flies is rational and adaptive. <i>Nature Communications</i> , 2017, 8, 13953.	5.8	42
40	What can genetic variation tell us about the evolution of senescence?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2271-2278.	1.2	41
41	A Regulatory Network Analysis of Phenotypic Plasticity in Yeast. <i>American Naturalist</i> , 2005, 165, 515-523.	1.0	40
42	MetabNet: An R Package for Metabolic Association Analysis of High-Resolution Metabolomics Data. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 87.	2.0	40
43	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.	1.4	39
44	A comparative assessment of univariate longevity measures using zoological animal records. <i>Aging Cell</i> , 2012, 11, 940-948.	3.0	39
45	Metabolome-wide association study of phenylalanine in plasma of common marmosets. <i>Amino Acids</i> , 2015, 47, 589-601.	1.2	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. <i>Oncotarget</i> , 2016, 7, 19147-19170.	0.8	37
47	The Companion Dog as a Model for the Longevity Dividend. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a026633.	2.9	37
48	Cross-generational fitness effects of infection in <i>Drosophila melanogaster</i> . <i>Fly</i> , 2009, 3, 143-150.	0.9	36
49	Immune parameter analysis of children with sickle cell disease on hydroxycarbamide or chronic transfusion therapy. <i>British Journal of Haematology</i> , 2015, 169, 574-583.	1.2	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. <i>Current Biology</i> , 2020, 30, 2749-2760.e3.	1.8	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. <i>Oncotarget</i> , 2017, 8, 17453-17474.	0.8	34
52	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.	1.7	32
53	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.	3.3	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. <i>Aging</i> , 2017, 9, 1770-1824.	1.4	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.	1.4	30
56	Longevity and the barren aristocrat. <i>Nature</i> , 1998, 396, 719-720.	13.7	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.	2.1	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.	1.8	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.	0.5	27
60	Evolution: Aging Up a Tree?. <i>Current Biology</i> , 2010, 20, R406-R408.	1.8	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.	0.5	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.	1.4	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.	1.2	23
65	Characterization of plasma thiol redox potential in a common marmoset model of aging. <i>Redox Biology</i> , 2013, 1, 387-393.	3.9	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.	1.2	23
67	Metabolic Characterization of the Common Marmoset (<i>Callithrix jacchus</i>). <i>PLoS ONE</i> , 2015, 10, e0142916.	1.1	22
68	The metabolome as a biomarker of aging in <i>Drosophila melanogaster</i> . <i>Aging Cell</i> , 2022, 21, e13548.	3.0	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.	1.6	21
70	Humanity's Best Friend: A Dog-Centric Approach to Addressing Global Challenges. <i>Animals</i> , 2020, 10, 502.	1.0	20
71	Dog Models of Aging. <i>Annual Review of Animal Biosciences</i> , 2022, 10, 419-439.	3.6	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.	0.8	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.	1.7	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.	1.7	18
76	Extending human healthspan and longevity: a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2022, 1507, 70-83.	1.8	18
77	The effects of graded levels of calorie restriction: VII. Topological rearrangement of hypothalamic aging networks. <i>Aging</i> , 2016, 8, 917-932.	1.4	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.	3.3	17
79	FITNESS COSTS OF FEMALE REPRODUCTION. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1323-1326.	1.1	16
80	Recent Advances in the Systems Biology of Aging. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 973-984.	2.5	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.	1.8	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.	1.7	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.	1.7	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.	1.2	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.	5.7	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.	1.7	13
87	Calorie restriction prevents age-related changes in the intestinal microbiota. <i>Aging</i> , 2021, 13, 6298-6329.	1.4	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.	1.7	11
89	Fertile Waters for Aging Research. <i>Cell</i> , 2015, 160, 814-815.	13.5	10
90	Tissue-specific insulin signaling mediates female sexual attractiveness. <i>PLoS Genetics</i> , 2017, 13, e1006935.	1.5	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. <i>American Journal of Veterinary Research</i> , 2019, 80, 670-679.	0.3	10
92	The effects of graded calorie restriction XVII: Multitissue metabolomics reveals synthesis of carnitine and NAD, and tRNA charging as key pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
93	Age and Physical Activity Levels in Companion Dogs: Results From the Dog Aging Project. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1986-1993.	1.7	10
94	Modular Evolution of the <i>Drosophila</i> Metabolome. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	9
95	Predictive Modeling of Alzheimer's and Parkinson's Disease Using Metabolomic and Lipidomic Profiles from Cerebrospinal Fluid. <i>Metabolites</i> , 2022, 12, 277.	1.3	9
96	Resilience integrates concepts in aging research. <i>IScience</i> , 2022, 25, 104199.	1.9	9
97	Answering evolutionary questions: A guide for mechanistic biologists. <i>BioEssays</i> , 2016, 38, 704-711.	1.2	8
98	Williams's Intuition about Extrinsic Mortality Is Irrelevant. <i>Trends in Ecology and Evolution</i> , 2020, 35, 379.	4.2	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. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 601-610.	1.7	8
100	Healthy, Active Aging for People and Dogs. <i>Frontiers in Veterinary Science</i> , 2021, 8, 655191.	0.9	8
101	Research to Promote Longevity and Health Span in Companion Dogs: A Pediatric Perspective. <i>American Journal of Bioethics</i> , 2018, 18, 64-65.	0.5	7
102	Mifepristone Increases Life Span of Virgin Female <i>Drosophila</i> on Regular and High-fat Diet Without Reducing Food Intake. <i>Frontiers in Genetics</i> , 2021, 12, 751647.	1.1	7
103	Effects of myocardial ischemia/reperfusion injury on plasma metabolomic profile during aging. <i>Aging Cell</i> , 2021, 20, e13284.	3.0	7
104	The metabolome as a biomarker of mortality risk in the common marmoset. <i>American Journal of Primatology</i> , 2019, 81, e22944.	0.8	6
105	<i>Pterocarpus marsupium</i> extract extends replicative lifespan in budding yeast. <i>GeroScience</i> , 2021, 43, 2595-2609.	2.1	6
106	Once-daily feeding is associated with better health in companion dogs: results from the Dog Aging Project. <i>GeroScience</i> , 2022, 44, 1779-1790.	2.1	6
107	Lifetime prevalence of malignant and benign tumours in companion dogs: Cross-sectional analysis of Dog Aging Project baseline survey. <i>Veterinary and Comparative Oncology</i> , 2022, 20, 797-804.	0.8	6
108	Past and present resource availability affect mating rate but not mate choice in <i>Drosophila melanogaster</i> . <i>Behavioral Ecology</i> , 2018, 29, 1409-1414.	1.0	4

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109	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.	4.2	4
110	CorDiffViz: an R package for visualizing multi-omics differential correlation networks. <i>BMC Bioinformatics</i> , 2021, 22, 486.	1.2	4
111	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.	1.7	3
112	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.	2.0	3
113	Chemical Warfare in the Battle of the Sexes. <i>Science</i> , 2014, 343, 491-492.	6.0	2
114	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.	1.1	2
115	Life-History Variation and Demography in Western Bluebirds (<i>Sialia Mexicana</i>) in Oregon. <i>Auk</i> , 2004, 121, 118-133.	0.7	2
116	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.	0.6	2
117	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.	1.7	1
118	Reasons for Exclusion of Apparently Healthy Mature Adult and Senior Dogs From a Clinical Trial. <i>Frontiers in Veterinary Science</i> , 2021, 8, 651698.	0.9	1
119	University of Washington Nathan Shock Center: innovation to advance aging research. <i>GeroScience</i> , 2021, 43, 2161-2165.	2.1	1
120	Genome-Wide Analyses for Lifespan and Healthspan in <i>D. Melanogaster</i> Reveal Decima as a Regulator of Insulin-Like Peptide Production. <i>SSRN Electronic Journal</i> , 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. <i>GeroScience</i> , 2022, 44, 2195-2211.	2.1	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. <i>Journal of the American Heart Association</i> , 0, , .	1.6	1
123	Robert L. Perlman, <i>Evolution & Medicine</i> . <i>Evolution, Medicine and Public Health</i> , 2014, 2014, 10-11.	1.1	0
124	OMICS IN AGING RESEARCH: FROM BIOMARKERS TO SYSTEMS BIOLOGY. <i>Innovation in Aging</i> , 2019, 3, S234-S234.	0.0	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