

Alex Douglas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62 papers	1,864 citations	24 h-index	42 g-index
65 ext. papers	2,424 ext. citations	6.2 avg, IF	4.63 L-index

#	Paper	IF	Citations
62	Effects of dietary macronutrients on the hepatic transcriptome and serum metabolome in mice.. <i>Aging Cell</i> , 2022 , e13585	9.9	1
61	1,135 ionomes reveal the global pattern of leaf and seed mineral nutrient and trace element diversity in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2021 , 106, 536-554	6.9	4
60	Metabolic response of dolphins to short-term fasting reveals physiological changes that differ from the traditional fasting model. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	5
59	Very-low-protein diets lead to reduced food intake and weight loss, linked to inhibition of hypothalamic mTOR signaling, in mice. <i>Cell Metabolism</i> , 2021 , 33, 888-904.e6	24.6	13
58	Effects of dietary macronutrients and body composition on glucose homeostasis in mice. <i>National Science Review</i> , 2021 , 8, nwaa177	10.8	5
57	Genome-wide association mapping for grain manganese in rice (<i>Oryza sativa</i> L.) using a multi-experiment approach. <i>Heredity</i> , 2021 , 126, 505-520	3.6	0
56	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
55	Comparative genomics of cetartiodactyla: energy metabolism underpins the transition to an aquatic lifestyle 2021 , 9, coaa136		7
54	Genetic loci regulating cadmium content in rice grains. <i>Euphytica</i> , 2021 , 217, 35	2.1	3
53	Integration of Transcriptome, Gross Morphology and Histopathology in the Gill of Sea Farmed Atlantic Salmon (): Lessons From Multi-Site Sampling. <i>Frontiers in Genetics</i> , 2020 , 11, 610	4.5	10
52	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
51	The carbohydrate-insulin model does not explain the impact of varying dietary macronutrients on the body weight and adiposity of mice. <i>Molecular Metabolism</i> , 2020 , 32, 27-43	8.8	16
50	Plasma Proteome Responses in Salmonid Fish Following Immunization. <i>Frontiers in Immunology</i> , 2020 , 11, 581070	8.4	2
49	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	6.4	9
48	Spatial Effects and GWA Mapping of Root Colonization Assessed in the Interaction Between the Rice Diversity Panel 1 and an Arbuscular Mycorrhizal Fungus. <i>Frontiers in Plant Science</i> , 2019 , 10, 633	6.2	9
47	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
46	Genetic loci regulating arsenic content in rice grains when grown flooded or under alternative wetting and drying irrigation. <i>Rice</i> , 2019 , 12, 54	5.8	19

45	Genetic diversity among geographically distant isolates of <i>Neoparamoeba perurans</i> . <i>Diseases of Aquatic Organisms</i> , 2019 , 137, 81-87	1.7	
44	Fetal androgen exposure is a determinant of adult male metabolic health. <i>Scientific Reports</i> , 2019 , 9, 20195	4.9	8
43	Genome-wide Associations Reveal Human-Mouse Genetic Convergence and Modifiers of Myogenesis, CPNE1 and STC2. <i>American Journal of Human Genetics</i> , 2019 , 105, 1222-1236	11	18
42	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
41	Dietary Fat, but Not Protein or Carbohydrate, Regulates Energy Intake and Causes Adiposity in Mice. <i>Cell Metabolism</i> , 2018 , 28, 415-431.e4	24.6	115
40	Quantification of ethyl glucuronide, ethyl sulfate, nicotine, and its metabolites in human fetal liver and placenta. <i>Forensic Toxicology</i> , 2018 , 36, 102-112	2.6	3
39	Genome Wide Association Mapping of Grain and Straw Biomass Traits in the Rice Bengal and Assam Aus Panel (BAAP) Grown Under Alternate Wetting and Drying and Permanently Flooded Irrigation. <i>Frontiers in Plant Science</i> , 2018 , 9, 1223	6.2	25
38	Microbiome composition within a sympatric species complex of intertidal isopods (<i>Jaera albifrons</i>). <i>PLoS ONE</i> , 2018 , 13, e0202212	3.7	5
37	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
36	Analysis of adipose tissue immune gene expression after vaccination of rainbow trout with adjuvanted bacterins reveals an association with side effects. <i>Molecular Immunology</i> , 2017 , 88, 89-98	4.3	19
35	Effects of algal enrichment and salinity on sediment particle reworking activity and associated nutrient generation mediated by the intertidal polychaete <i>Hediste diversicolor</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2017 , 495, 75-82	2.1	13
34	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
33	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
32	Assessing the consequences of environmental impacts: variation in species responses has unpredictable functional effects. <i>Marine Ecology - Progress Series</i> , 2017 , 583, 35-47	2.6	2
31	A heavy metal P-type ATPase OSHMA4 prevents copper accumulation in rice grain. <i>Nature Communications</i> , 2016 , 7, 12138	17.4	103
30	A genome-wide association study of a global rice panel reveals resistance in <i>Oryza sativa</i> to root-knot nematodes. <i>Journal of Experimental Botany</i> , 2016 , 67, 1191-200	7	39
29	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
28	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

27	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
26	The role of parasite-driven selection in shaping landscape genomic structure in red grouse (<i>Lagopus lagopus scotica</i>). <i>Molecular Ecology</i> , 2016 , 25, 324-41	5.7	13
25	Differential responses of the gut transcriptome to plant protein diets in farmed Atlantic salmon. <i>BMC Genomics</i> , 2016 , 17, 156	4.5	54
24	Functional divergence of type 2 deiodinase paralogs in the Atlantic salmon. <i>Current Biology</i> , 2015 , 25, 936-41	6.3	39
23	Salinity Is an Agent of Divergent Selection Driving Local Adaptation of Arabidopsis to Coastal Habitats. <i>Plant Physiology</i> , 2015 , 168, 915-29	6.6	29
22	Gene dynamics of toll-like receptor 4 through a population bottleneck in an insular population of water voles (<i>Arvicola amphibius</i>). <i>Conservation Genetics</i> , 2015 , 16, 1181-1193	2.6	7
21	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
20	Genome-wide association and genome partitioning reveal novel genomic regions underlying variation in gastrointestinal nematode burden in a wild bird. <i>Molecular Ecology</i> , 2015 , 24, 4175-92	5.7	20
19	Biallelic and Genome Wide Association Mapping of Germanium Tolerant Loci in Rice (<i>Oryza sativa</i> L.). <i>PLoS ONE</i> , 2015 , 10, e0137577	3.7	6
18	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
17	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
16	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
15	Genome wide association mapping of grain arsenic, copper, molybdenum and zinc in rice (<i>Oryza sativa</i> L.) grown at four international field sites. <i>PLoS ONE</i> , 2014 , 9, e89685	3.7	132
14	Species that share traits do not necessarily form distinct and universally applicable functional effect groups. <i>Marine Ecology - Progress Series</i> , 2014 , 516, 23-34	2.6	31
13	Polyploids exhibit higher potassium uptake and salinity tolerance in Arabidopsis. <i>Science</i> , 2013 , 341, 658-9	3.3	199
12	Real-time PCR assays for the identification of harbor and gray seal species and sex: A molecular tool for ecology and management. <i>Marine Mammal Science</i> , 2013 , 29, 186-194	1.9	12
11	Detecting the structural and functional impacts of fine sediment on stream invertebrates. <i>Ecological Indicators</i> , 2013 , 25, 184-196	5.8	84
10	Strong pituitary and hypothalamic responses to photoperiod but not to 6-methoxy-2-benzoxazolinone in female common voles (<i>Microtus arvalis</i>). <i>General and Comparative Endocrinology</i> , 2012 , 179, 289-95	3	35

9	Transcriptomic responses to functional feeds in Atlantic salmon (<i>Salmo salar</i>). <i>Fish and Shellfish Immunology</i> , 2011 , 31, 704-15	4.3	74
8	Negative correlation between milk production and brown adipose tissue gene expression in lactating mice. <i>Journal of Experimental Biology</i> , 2011 , 214, 4160-70	3	32
7	Individual growth rates in natural field vole, <i>Microtus agrestis</i> , populations exhibiting cyclic population dynamics. <i>Oecologia</i> , 2010 , 162, 653-61	2.9	22
6	Starvation alters the liver transcriptome of the innate immune response in Atlantic salmon (<i>Salmo salar</i>). <i>BMC Genomics</i> , 2010 , 11, 418	4.5	98
5	Using quantitative real-time PCR to detect salmonid prey in scats of grey Halichoerus grypus and harbour Phoca vitulina seals in Scotland: An experimental and field study. <i>Journal of Applied Ecology</i> , 2008 , 45, 632-640	5.8	36
4	Population consequences of behaviour in the European bitterling (<i>Rhodeus sericeus</i> Cyprinidae). <i>Ecology of Freshwater Fish</i> , 2006 , 15, 139-145	2.1	9
3	Isolation of microsatellite loci in the freshwater fish, the bitterling <i>Rhodeus sericeus</i> (Teleostei: Cyprinidae). <i>Molecular Ecology Notes</i> , 2003 , 3, 199-202		32
2	Sexual conflict, sexual selection and sperm competition in the spawning decisions of bitterling, <i>Rhodeus sericeus</i> . <i>Behavioral Ecology and Sociobiology</i> , 2002 , 51, 433-439	2.5	46
1	A proximate cue for oviposition site choice in the bitterling (<i>Rhodeus sericeus</i>). <i>Freshwater Biology</i> , 2001 , 46, 903-911	3.1	62