J. William O. Ballard

List of Publications by Year
in descending order

127	9,170	76196	42291
papers	citations	40	92
		h-index	g-index

134	134	134	10081
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Eye contact and sociability data suggests that Australian dingoes were never domesticated. Environmental Epigenetics, 2022, 68, 423-432.	0.9	5
2	What physiological role(s) does the alternative oxidase perform in animals?. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148556.	0.5	12
3	The Australian dingo is an early offshoot of modern breed dogs. Science Advances, 2022, 8, eabm5944.	4.7	14
4	Ancestral dietary change alters the development of Drosophila larvae through MAPK signalling. Fly, 2022, 16, 298-310.	0.9	2
5	Metabolomics shows the Australian dingo has a unique plasma profile. Scientific Reports, 2021, 11, 5245.	1.6	2
6	Chromosome-length genome assembly and structural variations of the primal Basenji dog (Canis lupus) Tj ETQq0 0 0 rgBT /Overlock 10	1.2	22
7	Kidney disease risk factors do not explain impacts of low dietary protein on kidney function and structure. IScience, 2021, 24, 103308.	1.9	6
8	Towards understanding the evolutionary dynamics of mtDNA. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2020, 31, 355-364.	0.7	1
9	Yin and Yang of mitochondrial ROS in Drosophila. Journal of Insect Physiology, 2020, 122, 104022.	0.9	9
10	Canfam_GSD: De novo chromosome-length genome assembly of the German Shepherd Dog (Canis lupus) Tj ETQq0 0 0 rgBT /Overlock	3.3	47
11	Mitochondria, the gut microbiome and ROS. Cellular Signalling, 2020, 75, 109737.	1.7	65
12	Dietary Macronutrient Management to Treat Mitochondrial Dysfunction in Parkinsonâ€™s Disease. International Journal of Molecular Sciences, 2019, 20, 1850.	1.8	15
13	The Australian dingo: untamed or feral?. Frontiers in Zoology, 2019, 16, 2.	0.9	22
14	Nearâ€infrared spectroscopy for metabolite quantification and species identification. Ecology and Evolution, 2019, 9, 1336-1343.	0.8	13
15	Exogenous Factors May Differentially Influence the Selective Costs of mtDNA Mutations. Advances in Anatomy, Embryology and Cell Biology, 2019, 231, 51-74.	1.0	4
16	Stearic Acid Supplementation in High Protein to Carbohydrate (P:C) Ratio Diet Improves Physiological and Mitochondrial Functions of Drosophila melanogaster parkin Null Mutants. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 1564-1572.	1.7	10
17	The Relationship Between Dietary Macronutrients and Hepatic Telomere Length in Aging Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 446-449.	1.7	25
18	Genotype to phenotype: Diet-by-mitochondrial DNA haplotype interactions drive metabolic flexibility and organismal fitness. PLoS Genetics, 2018, 14, e1007735.	1.5	46

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19	Mitotype Interacts With Diet to Influence Longevity, Fitness, and Mitochondrial Functions in Adult Female Drosophila. Frontiers in Genetics, 2018, 9, 593.	1.1	7
20	Dietary management and physical exercise can improve climbing defects and mitochondrial activity inDrosophila melanogaster parkinnull mutants. Fly, 2018, 12, 95-104.	0.9	13
21	Elucidating biogeographical patterns in Australian native canids using genome wide SNPs. PLoS ONE, 2018, 13, e0198754.	1.1	22
22	Cellular and population level processes influence the rate, accumulation and observed frequency of inherited and somatic mtDNA mutations. Mutagenesis, 2017, 32, 323-334.	1.0	17
23	Drosophila mitotypes determine developmental time in a diet and temperature dependent manner. Journal of Insect Physiology, 2017, 100, 133-139.	0.9	11
24	The mechanisms mediating the antiepileptic effects of the ketogenic diet, and potential opportunities for improvement with metabolism-altering drugs. Seizure: the Journal of the British Epilepsy Association, 2017, 52, 15-19.	0.9	51
25	Conservation implications for dingoes from the maternal and paternal genome: Multiple populations, dog introgression, and demography. Ecology and Evolution, 2017, 7, 9787-9807.	0.8	33
26	Sex-specific influences of mtDNA mitotype and diet on mitochondrial functions and physiological traits in Drosophila melanogaster. PLoS ONE, 2017, 12, e0187554.	1.1	31
27	Wolbachia Associations with Insects: Winning or Losing Against a Master Manipulator. Frontiers in Ecology and Evolution, 2016, 3, .	1.1	99
28	Low protein to carbohydrate ratio diet delays onset of Parkinsonism like phenotype in Drosophila melanogaster parkin null mutants. Mechanisms of Ageing and Development, 2016, 160, 19-27.	2.2	13
29	Diet adaptation in dog reflects spread of prehistoric agriculture. Heredity, 2016, 117, 301-306.	1.2	70
30	The Effects of Dietary Macronutrient Balance on Skin Structure in Aging Male and Female Mice. PLoS ONE, 2016, 11, e0166175.	1.1	10
31	Assessing bioenergetic functions from isolated mitochondria in Drosophila melanogaster. Journal of Biological Methods, 2016, 3, e42.	1.0	13
32	Epigallocatechin-3-gallate induces oxidative phosphorylation by activating cytochrome c oxidase in human cultured neurons and astrocytes. Oncotarget, 2016, 7, 7426-7440.	0.8	32
33	Review: can diet influence the selective advantage of mitochondrial DNA haplotypes?. Bioscience Reports, 2015, 35, .	1.1	26
34	The Influence of Macronutrients on Splanchnic and Hepatic Lymphocytes in Aging Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1499-1507.	1.7	30
35	Macronutrient balance, reproductive function, and lifespan in aging mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3481-3486.	3.3	194
36	Regulation of Mitochondrial Genome Inheritance by Autophagy and Ubiquitin-Proteasome System: Implications for Health, Fitness, and Fertility. BioMed Research International, 2014, 2014, 1-16.	0.9	37

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37	Liver Aging and Pseudocapillarization in a Werner Syndrome Mouse Model. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1076-1086.	1.7	45
38	Mitochondrial <scp>DNA</scp>: more than an evolutionary bystander. Functional Ecology, 2014, 28, 218-231.	1.7	111
39	The Ratio of Macronutrients, Not Caloric Intake, Dictates Cardiometabolic Health, Aging, and Longevity in Ad Libitum-Fed Mice. Cell Metabolism, 2014, 19, 418-430.	7.2	768
40	Alpha-Synuclein Transmission and Mitochondrial Toxicity in Primary Human Foetal Enteric Neurons In Vitro. Neurotoxicity Research, 2014, 25, 170-182.	1.3	25
41	What can symbiont titres tell us about co-evolution of Wolbachia and their host?. Journal of Invertebrate Pathology, 2014, 118, 20-27.	1.5	14
42	Assessment of temporal genetic variability of two epibenthic amphipod species in an eastern Australian estuarine environment and their suitability as biological monitors. Australian Journal of Zoology, 2014, 62, 206.	0.6	0
43	Physiological adaptations to reproduction II. Mitochondrial adjustments in livers of lactating mice. Journal of Experimental Biology, 2013, 216, 2889-95.	0.8	16
44	Mitochondrial haplotype divergences affect specific temperature sensitivity of mitochondrial respiration. Journal of Bioenergetics and Biomembranes, 2013, 45, 25-35.	1.0	39
45	Mitochondrial DNA content of mature spermatozoa and oocytes in the genetic model Drosophila. Cell and Tissue Research, 2013, 353, 195-200.	1.5	9
46	The effects of temperature and diet on age grading and population age structure determination in Drosophila. Journal of Insect Physiology, 2013, 59, 994-1000.	0.9	10
47	Differential survival and reproductive performance across three mitochondrial lineages in Melita plumulosa following naphthalene exposure. Chemosphere, 2013, 93, 1064-1069.	4.2	3
48	Uptake and mitochondrial dysfunction of alpha-synuclein in human astrocytes, cortical neurons and fibroblasts. Translational Neurodegeneration, 2013, 2, 20.	3.6	71
49	Diet influences the intake target and mitochondrial functions of Drosophila melanogaster males. Mitochondrion, 2013, 13, 817-822.	1.6	42
50	The impact of historic isolation on the population biogeography ofÂMelita plumulosa (Crustacea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	3
51	Paternal transmission of mitochondrial DNA as an integral part of mitochondrial inheritance in metapopulations of Drosophila simulans. Heredity, 2013, 110, 57-62.	1.2	63
52	Quaternary protein modeling to predict the function of DNA variation found in human mitochondrial cytochrome c oxidase. Journal of Human Genetics, 2013, 58, 127-134.	1.1	6
53	Using Near-Infrared Spectroscopy to Resolve the Species, Gender, Age, and the Presence of Wolbachia Infection in Laboratory-Reared Drosophila. G3: Genes, Genomes, Genetics, 2012, 2, 1057-1065.	0.8	34
54	Wolbachia gonadal density in female and male Drosophila vary with laboratory adaptation and respond differently to physiological and environmental challenges. Journal of Invertebrate Pathology, 2012, 111, 197-204.	1.5	32

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55	Review: Quantifying Mitochondrial Dysfunction in Complex Diseases of Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 1022-1035.	1.7	111
56	Mitochondrial DNA variants influence mitochondrial bioenergetics in Drosophila melanogaster. Mitochondrion, 2012, 12, 459-464.	1.6	53
57	Selective Enrichment and Sequencing of Whole Mitochondrial Genomes in the Presence of Nuclear Encoded Mitochondrial Pseudogenes (Numts). PLoS ONE, 2012, 7, e37142.	1.1	31
58	Corroboration assessments and recent progress towards integrative systematics: a reply to Farris and Carpenter. Zootaxa, 2012, 3235, 65.	0.2	0
59	Phylogeography of the medically important mosquito Aedes (Ochlerotatus) vigilax (Diptera: Culicidae) in Australasia. Journal of Biogeography, 2012, 39, 1333-1346.	1.4	14
60	NATURALLY OCCURRING MITOCHONDRIAL DNA HAPLOTYPES EXHIBIT METABOLIC DIFFERENCES: INSIGHT INTO FUNCTIONAL PROPERTIES OF MITOCHONDRIA. Evolution; International Journal of Organic Evolution, 2012, 66, 3189-3197.	1.1	79
61	Proteinâ€“protein interactions of the cytochrome c oxidase DNA barcoding region. Systematic Entomology, 2012, 37, 229-236.	1.7	6
62	Mitochondrial DNA variants in Drosophila melanogaster are expressed at the level of the organismal phenotype. Mitochondrion, 2011, 11, 756-763.	1.6	20
63	Phylogenies with Corroboration Assessment. Zootaxa, 2011, 2946, 52.	0.2	9
64	EARLY LIFE BENEFITS AND LATER LIFE COSTS OF A TWO AMINO ACID DELETION INDROSOPHILA SIMULANS. Evolution; International Journal of Organic Evolution, 2011, 65, 1400-1412.	1.1	8
65	Temporal and geographical genetic variation in the amphipod Melita plumulosa (Crustacea: Melitidae): Link of a localized change in haplotype frequencies to a chemical spill. Chemosphere, 2011, 82, 1050-1055.	4.2	5
66	Functional conservatism among Drosophila simulans flies experiencing different thermal regimes and mitochondrial DNA introgression. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2011, 316B, 188-198.	0.6	5
67	Females With a Mutation in a Nuclear-Encoded Mitochondrial Protein Pay a Higher Cost of Survival Than Do Males in Drosophila. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 765-770.	1.7	3
68	Thermal sensitivity of mitochondrial functions in permeabilized muscle fibers from two populations of Drosophila simulans with divergent mitotypes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R48-R59.	0.9	59
69	10.1023/A:1018963131302. , 2011, , .		3
70	Linking the mitochondrial genotype to the organismal phenotype. Molecular Ecology, 2010, 19, 1523-1539.	2.0	133
71	Evidence of recent population expansion in the field cricket Teleogryllus commodus. Australian Journal of Zoology, 2010, 58, 33.	0.6	3
72	Thermal sensitivity of mitochondrial metabolism in two distinct mitotypes ofDrosophila simulans: evaluation of mitochondrial plasticity. Journal of Experimental Biology, 2010, 213, 1665-1675.	0.8	71

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73	Cost of a Naturally Occurring Twoâ€“Amino Acid Deletion in Cytochrome c Oxidase Subunit 7A in Drosophila simulans. American Naturalist, 2010, 176, E98-E108.	1.0	11
74	A Candidate Complex Approach to Study Functional Mitochondrial DNA Changes: Sequence Variation and Quaternary Structure Modeling of Drosophila simulans Cytochrome c Oxidase. Journal of Molecular Evolution, 2008, 66, 232-242.	0.8	20
75	Seasonal trade-off between starvation resistance and cold resistance in temperate wild-caught Drosophila simulans. Australian Journal of Entomology, 2008, 47, 20-23.	1.1	15
76	Genetic and life-history trait variation of the amphipod Melita plumulosa from polluted and unpolluted waterways in eastern Australia. Science of the Total Environment, 2008, 403, 222-229.	3.9	15
77	Validation of manometric microrespirometers for measuring oxygen consumption in small arthropods. Journal of Insect Physiology, 2008, 54, 1132-1137.	0.9	11
78	Starvation resistance is positively correlated with body lipid proportion in five wild caught Drosophila simulans populations. Journal of Insect Physiology, 2008, 54, 1371-1376.	0.9	84
79	Lifespan and reproduction in Drosophila : New insights from nutritional geometry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2498-2503.	3.3	887
80	Sympatric Drosophila simulans flies with distinct mtDNA show difference in mitochondrial respiration and electron transport. Insect Biochemistry and Molecular Biology, 2007, 37, 213-222.	1.2	36
81	Sympatric Drosophila simulans flies with distinct mtDNA show age related differences in mitochondrial metabolism. Insect Biochemistry and Molecular Biology, 2007, 37, 923-932.	1.2	10
82	Tetracycline treatment influences mitochondrial metabolism and mtDNA density two generations after treatment in Drosophila. Insect Molecular Biology, 2007, 16, 799-802.	1.0	98
83	Sex differences in survival and mitochondrial bioenergetics during aging inDrosophila. Aging Cell, 2007, 6, 699-708.	3.0	45
84	MITOCHONDRIAL DNA VARIATION IS ASSOCIATED WITH MEASURABLE DIFFERENCES IN LIFE-HISTORY TRAITS AND MITOCHONDRIAL METABOLISM IN DROSOPHILA SIMULANS. Evolution; International Journal of Organic Evolution, 2007, 61, 1735-1747.	1.1	94
85	Working harder to stay alive: Metabolic rate increases with age in Drosophila simulans but does not correlate with life span. Journal of Insect Physiology, 2007, 53, 1300-1306.	0.9	27
86	Comparative Analysis of Mitochondrial Genotype and Aging. Annals of the New York Academy of Sciences, 2007, 1114, 93-106.	1.8	13
87	Practical measures for combating communication system impairments caused by large magnetic storms. Radio Science, 2006, 41, n/a-n/a.	0.8	3
88	Intraspecific variation in survival and mitochondrial oxidative phosphorylation in wild-caught Drosophila simulans. Aging Cell, 2006, 5, 225-233.	3.0	44
89	High divergence among Drosophila simulans mitochondrial haplogroups arose in midst of long term purifying selection. Molecular Phylogenetics and Evolution, 2005, 36, 328-337.	1.2	17
90	as a novel model for studying mitochondrial metabolism and aging. Experimental Gerontology, 2005, 40, 763-773.	1.2	28

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91	The Population Biology of Mitochondrial DNA and Its Phylogenetic Implications. Annual Review of Ecology, Evolution, and Systematics, 2005, 36, 621-642.	3.8	292
92	Differential fitness of mitochondrial DNA in perturbation cage studies correlates with global abundance and population history in Drosophila simulans. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1197-1201.	1.2	36
93	The incomplete natural history of mitochondria. Molecular Ecology, 2004, 13, 729-744.	2.0	1,767
94	What maintains noncytoplasmic incompatibility inducingWolbachiain their hosts: a case study from a naturalDrosophila yakubapopulation. Journal of Evolutionary Biology, 2004, 17, 322-330.	0.8	37
95	Linking phylogenetics with population genetics to reconstruct the geographic origin of a species. Molecular Phylogenetics and Evolution, 2004, 32, 998-1009.	1.2	64
96	Sequential Evolution of a Symbiont Inferred From the Host: Wolbachia and Drosophila simulans. Molecular Biology and Evolution, 2003, 21, 428-442.	3.5	70
97	Mitochondrial Genotype Affects Fitness in Drosophila simulans. Genetics, 2003, 164, 187-194.	1.2	115
98	Influence of Two Wolbachia Strains on Population Structure of East African Drosophila simulans. Genetics, 2003, 165, 1959-1969.	1.2	64
99	DIVERGENCE OF MITOCHONDRIAL DNA IS NOT CORROBORATED BY NUCLEAR DNA, MORPHOLOGY, OR BEHAVIOR IN DROSOPHILA SIMULANS. Evolution; International Journal of Organic Evolution, 2002, 56, 527.	1.1	9
100	Dynamics of double and single Wolbachia infections in Drosophila simulans from New Caledonia. Heredity, 2002, 88, 182-189.	1.2	48
101	DIVERGENCE OF MITOCHONDRIAL DNA IS NOT CORROBORATED BY NUCLEAR DNA, MORPHOLOGY, OR BEHAVIOR IN DROSOPHILA SIMULANS. Evolution; International Journal of Organic Evolution, 2002, 56, 527-545.	1.1	119
102	Seaglider: a long-range autonomous underwater vehicle for oceanographic research. IEEE Journal of Oceanic Engineering, 2001, 26, 424-436.	2.1	841
103	The mitochondrial genome: mutation, selection and recombination. Current Opinion in Genetics and Development, 2001, 11, 667-672.	1.5	45
104	Factors affecting mitochondrial DNA quality from museum preserved Drosophila simulans. Entomologia Experimentalis Et Applicata, 2001, 98, 279-283.	0.7	71
105	When One Is Not Enough: Introgression of Mitochondrial DNA in Drosophila. Molecular Biology and Evolution, 2000, 17, 1126-1130.	3.5	121
106	EXPRESSION OF CYTOPLASMIC INCOMPATIBILITY IN DROSOPHILA SIMULANS AND ITS IMPACT ON INFECTION FREQUENCIES AND DISTRIBUTION OF WOLBACHIA PIPIENTIS. Evolution; International Journal of Organic Evolution, 2000, 54, 1661-1672.	1.1	111
107	Comparative Genomics of Mitochondrial DNA in Members of the Drosophila melanogaster Subgroup. Journal of Molecular Evolution, 2000, 51, 48-63.	0.8	185
108	Comparative Genomics of Mitochondrial DNA in Drosophila simulans. Journal of Molecular Evolution, 2000, 51, 64-75.	0.8	180

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109	EXPRESSION OF CYTOPLASMIC INCOMPATIBILITY IN DROSOPHILA SIMULANS AND ITS IMPACT ON INFECTION FREQUENCIES AND DISTRIBUTION OF WOLBACHIA PIPIENTIS. Evolution; International Journal of Organic Evolution, 2000, 54, 1661.	1.1	17
110	Distributional Evidence for Cospeciation between Neotropical Bats and their Bat Fly Ectoparasites. Studies on Neotropical Fauna and Environment, 1998, 33, 76-84.	0.5	24
111	Data Sets, Partitions, and Characters: Philosophies and Procedures for Analyzing Multiple Data Sets. Systematic Biology, 1998, 47, 367-396.	2.7	39
112	Molecular systematics, morphological analysis, and hybrid crossing identify a third taxon, Aedes (Halaedes) wardangensis sp.nov., of the Aedes (Halaedes) australis species-group (Diptera: Culicidae). Canadian Journal of Zoology, 1998, 76, 1236-1246.	0.4	16
113	Molecular systematics, morphological analysis, and hybrid crossing identify a third taxon, Aedes (Halaedes) wardangensis sp.nov., of the Aedes (Halaedes) australis species-group (Diptera: Culicidae). Canadian Journal of Zoology, 1998, 76, 1236-1246.	0.4	4
114	A long-term investigation of the HF communication channel over middle- and high-latitude paths. Radio Science, 1997, 32, 1705-1715.	0.8	21
115	Is mitochondrial DNA a strictly neutral marker?. Trends in Ecology and Evolution, 1995, 10, 485-488.	4.2	236
116	Evidence from 12S Ribosomal RNA Sequences Resolves a Morphological Conundrum in Austrosimulium (Diptera: Simuliidae). Australian Journal of Entomology, 1994, 33, 131-135.	1.1	3
117	Length Differences and Topology-dependent Tests: a Response to KÃllersjÃ¶ et al.. Cladistics, 1994, 10, 57-64.	1.5	24
118	Phylogeny of Metarhizium: analysis of ribosomal DNA sequence data. Mycological Research, 1994, 98, 547-552.	2.5	152
119	LENGTH DIFFERENCES AND TOPOLOGYâ€ÐEPENDENT TESTS: A RESPONSE TO KÃ„LLERSJÃ– ET AL.. Cladistics, 1994, 10, 57-64.	1.5	14
120	MONITORING BLACKFLY (DIPTERA: SIMULIIDAE) PESTS. Australian Journal of Entomology, 1992, 31, 263-270.	1.1	1
121	Colonization of Perspex Strips by Larvae of Austrosimulium-Bancrofti (Taylor) Near Willawarin, Nsw. Australian Journal of Zoology, 1991, 39, 201.	0.6	0
122	Colonization of perspex strips by larvae of Austrosimulium bancrofti (Taylor) near Ipswich, Queensland. Hydrobiologia, 1991, 218, 255-263.	1.0	2
123	Population cytogenetics of Austrosimulium bancrofti (Diptera: Simuliidae) in eastern Australia. Genome, 1991, 34, 338-353.	0.9	8
124	Differences in trap-finding behaviour of two populations of Austrosimulium bancrofti (Taylor) (Diptera: Simuliidae) in eastern Australia. Canadian Journal of Zoology, 1990, 68, 579-584.	0.4	4
125	Factors influencing silhouette-trap captures of the blackfly Austrosimulium bancrofti (Taylor) (Diptera: Simuliidae) in the Australian Capital Territory. Bulletin of Entomological Research, 1989, 79, 421-428.	0.5	9
126	Factors influencing silhouette trap captures of the blackfly Austrosimulium bancrofti in Queensland, Australia. Medical and Veterinary Entomology, 1988, 2, 371-378.	0.7	5

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127	A simple technique for sexing blackfly larvae of the taxon Austrosimulium bancrofti. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1988, 82, 478.	0.7	0