

Donald Stewart

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,462
citations

147801

31
h-index

149698

56
g-index

90
all docs

90
docs citations

90
times ranked

1753
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of environmental conditions on sex determination in the blue mussel <i>Mytilus edulis</i> . ICES Journal of Marine Science, 2022, 79, 394-402.	2.5	3
2	Did doubly uniparental inheritance (DUI) of mtDNA originate as a cytoplasmic male sterility (CMS) system?. BioEssays, 2022, 44, e2100283.	2.5	12
3	The longest mitochondrial protein in metazoans is encoded by the male-transmitted mitogenome of the bivalve <i>Scrobicularia plana</i> . Biology Letters, 2022, 18, .	2.3	6
4	Demographical and morphological differences among coyotes (<i>Canis latrans</i>) relative to sampling method. Canadian Journal of Zoology, 2021, 99, 197-204.	1.0	1
5	A proposed method for analyzing molecular signatures to detect hermaphroditism in freshwater mussels: a case study using the eastern floater (<i>Pyganodon cataracta</i>). Canadian Journal of Zoology, 2021, 99, 450-458.	1.0	1
6	Expanding the Search for Sperm Transmission Elements in the Mitochondrial Genomes of Bivalve Mollusks. Genes, 2021, 12, 1211.	2.4	4
7	New geographic records for <i>Echinococcus canadensis</i> in coyotes and moose from Nova Scotia, Canada. International Journal for Parasitology: Parasites and Wildlife, 2021, 16, 285-288.	1.5	1
8	Unorthodox features in two venerid bivalves with doubly uniparental inheritance of mitochondria. Scientific Reports, 2020, 10, 1087.	3.3	23
9	An Unusual Evolutionary Strategy: The Origins, Genetic Repertoire, and Implications of Doubly Uniparental Inheritance of Mitochondrial DNA in Bivalves. , 2020, , 301-323.		6
10	Putative Mitochondrial Sex Determination in the Bivalvia: Insights From a Hybrid Transcriptome Assembly in Freshwater Mussels. Frontiers in Genetics, 2019, 10, 840.	2.3	18
11	The male and female complete mitochondrial genomes of the threatened freshwater pearl mussel <i>Margaritifera margaritifera</i> (Linnaeus, 1758) (Bivalvia: Margaritiferidae). Mitochondrial DNA Part B: Resources, 2019, 4, 1417-1420.	0.4	8
12	The complete male-type mitochondrial genomes of the Fatmucket, <i>Lampsilis siliquoidea</i> , and the endangered Arkansas Fatmucket, <i>Lampsilis powellii</i> . Mitochondrial DNA Part B: Resources, 2019, 4, 107-109.	0.4	2
13	Variability of mitochondrial ORFans hints at possible differences in the system of doubly uniparental inheritance of mitochondria among families of freshwater mussels (Bivalvia: Unionida). BMC Evolutionary Biology, 2019, 19, 229.	3.2	18
14	Deciphering the Link between Doubly Uniparental Inheritance of mtDNA and Sex Determination in Bivalves: Clues from Comparative Transcriptomics. Genome Biology and Evolution, 2018, 10, 577-590.	2.5	32
15	Distribution and frequency of mitochondrial DNA polymorphisms in blue mussel (<i>Mytilus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 608-613.	1.0	5
16	The complete mitochondrial genome of the hermaphroditic freshwater mussel <i>Anodonta cygnea</i> (Bivalvia: Unionidae): in silico analyses of sex-specific ORFs across order Unionoida. BMC Genomics, 2018, 19, 221.	2.8	12
17	Sex-Determining Mechanisms in Bivalves. , 2018, , 165-192.		27
18	First report of <i>Angiostrongylus vasorum</i> in coyotes in mainland North America. Veterinary Record, 2018, 183, 747-747.	0.3	15

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19	Genome Survey of the Freshwater Mussel <i>Venusta concha ellipsiformis</i> (Bivalvia: Unionida) Using a Hybrid De Novo Assembly Approach. <i>Genome Biology and Evolution</i> , 2018, 10, 1637-1646.	2.5	52
20	Evaluating the utility of the female-specific mitochondrial <i>orf10</i> gene for population genetic, phylogeographic and systematic studies in freshwater mussels (Bivalvia: Unionida). <i>PeerJ</i> , 2018, 6, e5007.	2.0	7
21	Sequence motifs associated with paternal transmission of mitochondrial DNA in the horse mussel, <i>Modiolus modiolus</i> (Bivalvia: Mytilidae). <i>Gene</i> , 2017, 605, 32-42.	2.2	14
22	Population structure of Purple Sandpipers (<i>Calidris maritima</i>) as revealed by mitochondrial <i>scp</i> DNA and microsatellites. <i>Ecology and Evolution</i> , 2017, 7, 3225-3242.	1.9	6
23	Evidence for extreme sequence divergence between the male- and female-transmitted mitochondrial genomes in the bivalve mollusc, <i>Modiolus modiolus</i> (Mytilidae). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2017, 55, 89-97.	1.4	9
24	Evolution of sex-dependent mtDNA transmission in freshwater mussels (Bivalvia: Unionida). <i>Scientific Reports</i> , 2017, 7, 1551.	3.3	40
25	The extremely divergent maternally- and paternally-transmitted mitochondrial genomes are co-expressed in somatic tissues of two freshwater mussel species with doubly uniparental inheritance of mtDNA. <i>PLoS ONE</i> , 2017, 12, e0183529.	2.5	25
26	In silico analyses of mitochondrial ORFans in freshwater mussels (Bivalvia: Unionida) provide a framework for future studies of their origin and function. <i>BMC Genomics</i> , 2016, 17, 597.	2.8	38
27	Identification of <i>Mompha capella</i> Busck, a Microlepidopteran Predator of an Endangered Plant, <i>Crocantemum canadense</i> (L.) Britton, in Nova Scotia. <i>Northeastern Naturalist</i> , 2016, 23, 211-218.	0.3	4
28	Pursuing the quest for better understanding the taxonomic distribution of the system of doubly uniparental inheritance of mtDNA. <i>PeerJ</i> , 2016, 4, e2760.	2.0	81
29	Spatial Genetic and Body-Size Trends in Atlantic Canada <i>Canis latrans</i> (Coyote) Populations. <i>Northeastern Naturalist</i> , 2015, 22, 598-612.	0.3	4
30	Atypical mitochondrial inheritance patterns in eukaryotes. <i>Genome</i> , 2015, 58, 423-431.	2.0	86
31	A resourceful genome: updating the functional repertoire and evolutionary role of animal mitochondrial DNAs. <i>Trends in Genetics</i> , 2014, 30, 555-564.	6.7	100
32	Non-target Gelechiidae and Noctuidae attraction to <i>Aroga trialbamaculella</i> (Lepidoptera: Gelechiidae) pheromone-based trapping systems. <i>Canadian Entomologist</i> , 2013, 145, 48-52.	0.8	7
33	Non-target Gelechiidae and Noctuidae attraction to <i>Aroga trialbamaculella</i> (Lepidoptera: Gelechiidae) pheromone-based trapping systems – CORRIGENDUM. <i>Canadian Entomologist</i> , 2013, 145, 124-124.	0.8	0
34	Mitochondrial Genes, Sex Determination and Hermaphroditism in Freshwater Mussels (Bivalvia: Unionida). <i>Journal of Herpetology</i> , 2012, 46, 100-105.	0.5	10
35	No effect of sperm interactions or egg homogenate on sperm velocity in the blue mussel, <i>Mytilus edulis</i> (Bivalvia: Mytilidae). <i>Canadian Journal of Zoology</i> , 2012, 90, 1291-1296.	1.0	12
36	Cytochrome <i>b</i> Sequence Variation in Water Shrews (<i>Sorex palustris</i>) from Eastern and Western North America. <i>Northeastern Naturalist</i> , 2011, 18, 497-508.	0.3	2

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37	Evidence for a Fourteenth mtDNA-Encoded Protein in the Female-Transmitted mtDNA of Marine Mussels (<i>Bivalvia: Mytilidae</i>). <i>PLoS ONE</i> , 2011, 6, e19365.	2.5	50
38	Novel Protein Genes in Animal mtDNA: A New Sex Determination System in Freshwater Mussels (<i>Bivalvia: Unionoida</i>)?. <i>Molecular Biology and Evolution</i> , 2011, 28, 1645-1659.	8.9	156
39	Mitochondrial phylogenomics of the <i>Bivalvia</i> (Mollusca): searching for the origin and mitogenomic correlates of doubly uniparental inheritance of mtDNA. <i>BMC Evolutionary Biology</i> , 2010, 10, 50.	3.2	148
40	Characterization of a mitochondrial ORF from the gender-associated mtDNAs of <i>Mytilus</i> spp. (<i>Bivalvia</i>): Tj ETQq0 0 0 rgBT /Overlock 10 118 72	1.1	72
41	Comparative Mitochondrial Genomics of Freshwater Mussels (<i>Bivalvia: Unionoida</i>) With Doubly Uniparental Inheritance of mtDNA: Gender-Specific Open Reading Frames and Putative Origins of Replication. <i>Genetics</i> , 2009, 183, 1575-1589.	2.9	114
42	Role of reversal of gender-associated mitochondrial DNA affects mitochondrial function in <i>Mytilus edulis</i> (<i>Bivalvia: Mytilidae</i>). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2009, 312B, 108-117.	1.3	29
43	Diffusion of nuclear and mitochondrial genes across a zone of secondary contact in the maritime shrew, <i>Sorex maritimensis</i> : implications for the conservation of a Canadian endemic mammal. <i>Conservation Genetics</i> , 2009, 10, 851-857.	1.5	5
44	Splenic Mass of Masked Shrews, <i>Sorex cinereus</i> , in Relation to Body Mass, Sex, Age, Day of the Year, and Bladder Nematode, <i>Liniscus</i> (=Capillaria) maseri, Infection. <i>Journal of Parasitology</i> , 2009, 95, 228-230.	0.7	12
45	Cophylogeny of <i>Nosema</i> (Microsporidia: Nosematidae) and Bees (Hymenoptera: Apidae) Suggests Both Cospeciation and a Host-switch. <i>Journal of Parasitology</i> , 2009, 95, 198-203.	0.7	33
46	Masculinization Events and Doubly Uniparental Inheritance of Mitochondrial DNA: A Model for Understanding the Evolutionary Dynamics of Gender-Associated mtDNA in Mussels. , 2009, , 163-173.		19
47	Extreme primary and secondary protein structure variability in the chimeric male-transmitted cytochrome c oxidase subunit II protein in freshwater mussels: Evidence for an elevated amino acid substitution rate in the face of domain-specific purifying selection. <i>BMC Evolutionary Biology</i> , 2008, 8, 165.	3.2	37
48	First detection of <i>Nosema ceranae</i> , a microsporidian parasite of European honey bees (<i>Apis mellifera</i>), in Canada and central USA. <i>Journal of Invertebrate Pathology</i> , 2008, 97, 189-192.	3.2	133
49	Following the SINEs: A Taxonomic Revision of the Long-Tailed Shrew Complex, <i>Sorex dispar</i> and <i>S. gaspensis</i> . <i>Journal of Mammalogy</i> , 2008, 89, 1421-1427.	1.3	2
50	A Population Crash of the Red-backed Vole (<i>Myodes gapperi</i>) in Nova Scotia Inferred from Bycatch of the Long-tailed Shrew (<i>Sorex dispar</i>). <i>Northeastern Naturalist</i> , 2008, 15, 626-629.	0.3	2
51	Extreme Male-biased Infections of Masked Shrews by Bladder Nematodes. <i>Journal of Mammalogy</i> , 2007, 88, 1539-1543.	1.3	10
52	Reproductive function for a C-terminus extended, male-transmitted cytochrome c oxidase subunit II protein expressed in both spermatozoa and eggs. <i>FEBS Letters</i> , 2007, 581, 5213-5219.	2.8	47
53	Phylogenetic relationships among Nearctic shrews of the genus <i>Sorex</i> (Insectivora, Soricidae) inferred from combined cytochrome b and inter-SINE fingerprint data using Bayesian analysis. <i>Molecular Phylogenetics and Evolution</i> , 2007, 44, 192-203.	2.7	15
54	SPERM MOTILITY IN <i>MYTILUS EDULIS</i> IN RELATION TO MITOCHONDRIAL DNA POLYMORPHISMS: IMPLICATIONS FOR THE EVOLUTION OF DOUBLY UNIPARENTAL INHERITANCE IN BIVALVES. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 62, 071202192643004???	2.3	33

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55	The unusual system of doubly uniparental inheritance of mtDNA: isn't one enough?. Trends in Genetics, 2007, 23, 465-474.	6.7	294
56	PHYLOGEOGRAPHY AND CONSERVATION GENETICS OF SOUTHERN FLYING SQUIRRELS (GLAUCOMYS) Tj ETQq0 0,0rgBT /Overlock 10	1.3	15
57	Presence of a unique male-specific extension of C-terminus to the cytochrome oxidase subunit II protein coded by the male-transmitted mitochondrial genome of Venusta concha ellipsiformis (Bivalvia: Mytilidae) Tj ETQq1 1 0,784314rgBT /Over	1.3	4
58	Comparative Analysis of Gender-Associated Complete Mitochondrial Genomes in Marine Mussels (Mytilus spp.). Genetics, 2006, 172, 1107-1119.	2.9	121
59	A Disjunct Population of Sorex dispar (Long-tailed Shrew) in Nova Scotia. Northeastern Naturalist, 2006, 13, 603-608.	0.3	4
60	Delineating the Range of a Disjunct Population of Southern Flying Squirrels (Glaucomys volans). American Midland Naturalist, 2006, 155, 188-196.	0.4	2
61	Differential display reverse transcription PCR applied to male Mytilus edulis mussels with two distinct mitochondrial DNA types. Biochemical Systematics and Ecology, 2005, 33, 715-724.	1.3	4
62	New Records for the Arctic Shrew, <i>Sorex arcticus</i> and the Newly Recognized Maritime Shrew, <i>Sorex maritimensis</i> . Canadian Field-Naturalist, 2004, 118, 400.	0.1	5
63	Phylogenetic Structures of the Holarctic Sorex Araneus Group and Its Relationships with S. Samniticus, as Inferred from mtDNA Sequences. Hereditas, 2004, 125, 191-199.	1.4	23
64	Mitochondrial DNA polymorphisms and sperm motility in Mytilus edulis (Bivalvia: Mytilidae). The Journal of Experimental Zoology, 2004, 301A, 906-910.	1.4	25
65	A re-examination of the taxonomic boundaries of Symphysis (Ericaceae). Taxon, 2004, 53, 91-98.	0.7	9
66	Characterisation of a unique dipeptidase allele in an insular population of masked shrews, Sorex cinereus (Insectivora: Soricidae). Biochemical Systematics and Ecology, 2003, 31, 573-580.	1.3	1
67	HIGH FIDELITY OF MITOCHONDRIAL GENOME TRANSMISSION UNDER THE DOUBLY UNIPARENTAL MODE OF INHERITANCE IN FRESHWATER MUSSELS (BIVALVIA: UNIONOIDEA). Evolution; International Journal of Organic Evolution, 2002, 56, 2252.	2.3	9
68	Tissue-specific expression of male-transmitted mitochondrial DNA and its implications for rates of molecular evolution in Mytilus mussels (Bivalvia: Mytilidae). Genome, 2002, 45, 348-355.	2.0	65
69	The maritime shrew, <i>Sorex maritimensis</i> (Insectivora: Soricidae): a newly recognized Canadian endemic. Canadian Journal of Zoology, 2002, 80, 94-99.	1.0	19
70	HIGH FIDELITY OF MITOCHONDRIAL GENOME TRANSMISSION UNDER THE DOUBLY UNIPARENTAL MODE OF INHERITANCE IN FRESHWATER MUSSELS (BIVALVIA: UNIONOIDEA). Evolution; International Journal of Organic Evolution, 2002, 56, 2252-2261.	2.3	102
71	Molecular Phylogeny and Evolution of Sorex Shrews (Soricidae: Insectivora) Inferred from Mitochondrial DNA Sequence Data. Molecular Phylogenetics and Evolution, 1999, 11, 222-235.	2.7	133
72	The distribution of male-transmitted and female-transmitted mitochondrial DNA types in somatic tissues of blue mussels: Implications for the operation of doubly uniparental inheritance of mitochondrial DNA. Genome, 1998, 41, 818-824.	2.0	112

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73	The Fate of Paternal Mitochondrial DNA in Developing Female Mussels, <i>Mytilus edulis</i> : Implications for the Mechanism of Doubly Uniparental Inheritance of Mitochondrial DNA. <i>Genetics</i> , 1998, 148, 341-347.	2.9	67
74	Phylogenetic evidence for role-reversals of gender-associated mitochondrial DNA in <i>Mytilus</i> (Bivalvia). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	8.9	124
75	A Phylogeny of Some Taxa of Masked Shrews (<i>Sorex cinereus</i>) Based on Mitochondrial-DNA, D-Loop Sequences. <i>Journal of Mammalogy</i> , 1997, 78, 361-376.	1.3	14
76	Multiple Origins of Gender-Associated Mitochondrial DNA Lineages in Bivalves (Mollusca: Bivalvia). <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 2276.	2.3	69
77	Cytochrome c oxidase sequence comparisons suggest an unusually high rate of mitochondrial DNA evolution in <i>Mytilus</i> (Mollusca: Bivalvia). <i>Molecular Biology and Evolution</i> , 1996, 13, 418-421.	8.9	63
78	MULTIPLE ORIGINS OF GENDER-ASSOCIATED MITOCHONDRIAL DNA LINEAGES IN BIVALVES (MOLLUSCA:) <i>Tj ETQq0 0 0 rgBT /Overlock</i>	2.3	85
79	Degree of Selective Constraint as an Explanation of the Different Rates of Evolution of Gender-Specific Mitochondrial DNA Lineages in the Mussel <i>Mytilus</i> . <i>Genetics</i> , 1996, 143, 1349-1357.	2.9	89
80	Species-Specific Segregation of Gender-Associated Mitochondrial DNA Types in an Area Where Two Mussel Species (<i>Mytilus edulis</i> and <i>M. trossulus</i>) Hybridize. <i>Genetics</i> , 1996, 143, 1359-1367.	2.9	60
81	Male and female mitochondrial DNA lineages in the blue mussel (<i>Mytilus edulis</i>) species group.. <i>Molecular Biology and Evolution</i> , 1995, 12, 735-47.	8.9	131
82	Evolution of mtDNA D-Loop Sequences and Their Use in Phylogenetic Studies of Shrews in the Subgenus <i>Otisorex</i> (<i>Sorex</i> : <i>Soricidae</i> : <i>Insectivora</i>). <i>Molecular Phylogenetics and Evolution</i> , 1994, 3, 38-46.	2.7	20
83	Patterns of sequence variation in the mitochondrial D-loop region of shrews.. <i>Molecular Biology and Evolution</i> , 1994, 11, 9-21.	8.9	93
84	Sexual dimorphism in thick-billed murre, <i>Uria lomvia</i> . <i>Canadian Journal of Zoology</i> , 1993, 71, 346-351.	1.0	6
85	Genetic Differentiation and Population Structure in <i>Sorex haydeni</i> and <i>S. cinereus</i> . <i>Journal of Mammalogy</i> , 1993, 74, 21-32.	1.3	13
86	Breeding biology of an insular population of the masked shrew (<i>Sorex cinereus</i> Kerr) in Nova Scotia. <i>Canadian Journal of Zoology</i> , 1992, 70, 62-66.	1.0	4
87	Genetic differentiation and biogeography of the masked shrew in Atlantic Canada. <i>Canadian Journal of Zoology</i> , 1992, 70, 106-114.	1.0	25
88	Littoral feeding in a high-density insular population of <i>Sorex cinereus</i> . <i>Canadian Journal of Zoology</i> , 1989, 67, 2074-2077.	1.0	20