

# Donald Stewart

## List of Publications by Year in descending order

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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 unusual system of doubly uniparental inheritance of mtDNA: isn't one enough?. Trends in Genetics, 2007, 23, 465-474.	6.7	294
2	Novel Protein Genes in Animal mtDNA: A New Sex Determination System in Freshwater Mussels (Bivalvia: Unionoida)?. Molecular Biology and Evolution, 2011, 28, 1645-1659.	8.9	156
3	Mitochondrial phylogenomics of the Bivalvia (Mollusca): searching for the origin and mitogenomic correlates of doubly uniparental inheritance of mtDNA. BMC Evolutionary Biology, 2010, 10, 50.	3.2	148
4	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
5	First detection of Nosema ceranae, a microsporidian parasite of European honey bees (Apis mellifera), in Canada and central USA. Journal of Invertebrate Pathology, 2008, 97, 189-192.	3.2	133
6	Male and female mitochondrial DNA lineages in the blue mussel (Mytilus edulis) species group.. Molecular Biology and Evolution, 1995, 12, 735-47.	8.9	131
7	Phylogenetic evidence for role-reversals of gender-associated mitochondrial DNA in Mytilus (Bivalvia: Tj ETQq1 1 0.784314 rgBT / Overlock 124	8.9	124
8	Comparative Analysis of Gender-Associated Complete Mitochondrial Genomes in Marine Mussels (Mytilus spp.). Genetics, 2006, 172, 1107-1119.	2.9	121
9	Comparative Mitochondrial Genomics of Freshwater Mussels (Bivalvia: Unionoida) With Doubly Uniparental Inheritance of mtDNA: Gender-Specific Open Reading Frames and Putative Origins of Replication. Genetics, 2009, 183, 1575-1589.	2.9	114
10	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
11	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
12	A resourceful genome: updating the functional repertoire and evolutionary role of animal mitochondrial DNAs. Trends in Genetics, 2014, 30, 555-564.	6.7	100
13	Patterns of sequence variation in the mitochondrial D-loop region of shrews.. Molecular Biology and Evolution, 1994, 11, 9-21.	8.9	93
14	Degree of Selective Constraint as an Explanation of the Different Rates of Evolution of Gender-Specific Mitochondrial DNA Lineages in the Mussel Mytilus. Genetics, 1996, 143, 1349-1357.	2.9	89
15	Atypical mitochondrial inheritance patterns in eukaryotes. Genome, 2015, 58, 423-431.	2.0	86
16	MULTIPLE ORIGINS OF GENDER-ASSOCIATED MITOCHONDRIAL DNA LINEAGES IN BIVALVES (MOLLUSCA:) Tj ETQq0 0 0 rgBT / Overlock 85	2.3	85
17	Pursuing the quest for better understanding the taxonomic distribution of the system of doubly uniparental inheritance of mtDNA. PeerJ, 2016, 4, e2760.	2.0	81
18	Characterization of a mitochondrial ORF from the gender-associated mtDNAs of Mytilus spp. (Bivalvia:) Tj ETQq0 0 0 rgBT / Overlock 10 72	1.1	72

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19	Multiple Origins of Gender-Associated Mitochondrial DNA Lineages in Bivalves (Mollusca: Bivalvia). Evolution; International Journal of Organic Evolution, 1996, 50, 2276.	2.3	69
20	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. Genetics, 1998, 148, 341-347.	2.9	67
21	Tissue-specific expression of male-transmitted mitochondrial DNA and its implications for rates of molecular evolution in <i>Mytilus</i> mussels (Bivalvia: Mytilidae). Genome, 2002, 45, 348-355.	2.0	65
22	Cytochrome c oxidase sequence comparisons suggest an unusually high rate of mitochondrial DNA evolution in <i>Mytilus</i> (Mollusca: Bivalvia). Molecular Biology and Evolution, 1996, 13, 418-421.	8.9	63
23	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. Genetics, 1996, 143, 1359-1367.	2.9	60
24	Genome Survey of the Freshwater Mussel <i>Venusta concha ellipsiformis</i> (Bivalvia: Unionida) Using a Hybrid De Novo Assembly Approach. Genome Biology and Evolution, 2018, 10, 1637-1646.	2.5	52
25	Evidence for a Fourteenth mtDNA-Encoded Protein in the Female-Transmitted mtDNA of Marine Mussels (Bivalvia: Mytilidae). PLoS ONE, 2011, 6, e19365.	2.5	50
26	Reproductive function for a C-terminus extended, male-transmitted cytochrome c oxidase subunit II protein expressed in both spermatozoa and eggs. FEBS Letters, 2007, 581, 5213-5219.	2.8	47
27	Evolution of sex-dependent mtDNA transmission in freshwater mussels (Bivalvia: Unionida). Scientific Reports, 2017, 7, 1551.	3.3	40
28	In silico analyses of mitochondrial ORFans in freshwater mussels (Bivalvia: Unionida) provide a framework for future studies of their origin and function. BMC Genomics, 2016, 17, 597.	2.8	38
29	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. BMC Evolutionary Biology, 2008, 8, 165.	3.2	37
30	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 <i>Venusta concha ellipsiformis</i> (Bivalvia: Unionida). PLoS ONE, 2011, 6, e19365.	2.8	37
31	SPERM MOTILITY IN MYTILUS EDULIS IN RELATION TO MITOCHONDRIAL DNA POLYMORPHISMS: IMPLICATIONS FOR THE EVOLUTION OF DOUBLY UNIPARENTAL INHERITANCE IN BIVALVES. Evolution; International Journal of Organic Evolution, 2007, 62, 071202192643004-???	2.3	33
32	Cophylogeny of <i>Nosema</i> (Microsporidia: Nosematidae) and Bees (Hymenoptera: Apidae) Suggests Both Cospeciation and a Host-switch. Journal of Parasitology, 2009, 95, 198-203.	0.7	33
33	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
34	Reversal of gender-associated mitochondrial DNA affects mitochondrial function in <i>Mytilus edulis</i> (Bivalvia: Mytilidae). Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2009, 312B, 108-117.	1.3	29
35	Sex-Determining Mechanisms in Bivalves. , 2018, , 165-192.		27
36	Genetic differentiation and biogeography of the masked shrew in Atlantic Canada. Canadian Journal of Zoology, 1992, 70, 106-114.	1.0	25

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37	Mitochondrial DNA polymorphisms and sperm motility in <i>Mytilus edulis</i> (Bivalvia: Mytilidae). <i>The Journal of Experimental Zoology</i> , 2004, 301A, 906-910.	1.4	25
38	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
39	Phylogenetic Structures of the Holarctic <i>Sorex Araneus</i> Group and Its Relationships with <i>S. Samniticus</i> , as Inferred from mtDNA Sequences. <i>Hereditas</i> , 2004, 125, 191-199.	1.4	23
40	Unorthodox features in two venerid bivalves with doubly uniparental inheritance of mitochondria. <i>Scientific Reports</i> , 2020, 10, 1087.	3.3	23
41	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
42	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
43	The maritime shrew, <i>Sorex maritimensis</i> ( <i>Insectivora</i> : <i>Soricidae</i> ): a newly recognized Canadian endemic. <i>Canadian Journal of Zoology</i> , 2002, 80, 94-99.	1.0	19
44	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
45	Putative Mitochondrial Sex Determination in the Bivalvia: Insights From a Hybrid Transcriptome Assembly in Freshwater Mussels. <i>Frontiers in Genetics</i> , 2019, 10, 840.	2.3	18
46	Variability of mitochondrial ORFans hints at possible differences in the system of doubly uniparental inheritance of mitochondria among families of freshwater mussels (Bivalvia: Unionida). <i>BMC Evolutionary Biology</i> , 2019, 19, 229.	3.2	18
47	PHYLOGEOGRAPHY AND CONSERVATION GENETICS OF SOUTHERN FLYING SQUIRRELS ( <i>GLAUCOMYS</i> )	1.0, 784314	15
48	Phylogenetic relationships among Nearctic shrews of the genus <i>Sorex</i> ( <i>Insectivora</i> , <i>Soricidae</i> ) 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
49	First report of <i>Angiostrongylus vasorum</i> in coyotes in mainland North America. <i>Veterinary Record</i> , 2018, 183, 747-747.	0.3	15
50	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
51	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
52	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
53	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> (= <i>Capillaria</i> ) <i>maseri</i> , Infection. <i>Journal of Parasitology</i> , 2009, 95, 228-230.	0.7	12
54	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

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55	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
56	Did doubly uniparental inheritance (DUI) of mtDNA originate as a cytoplasmic male sterility (CMS) system?. BioEssays, 2022, 44, e2100283.	2.5	12
57	Extreme Male-biased Infections of Masked Shrews by Bladder Nematodes. Journal of Mammalogy, 2007, 88, 1539-1543.	1.3	10
58	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
59	A re-examination of the taxonomic boundaries of <i>Symphysia</i> (Ericaceae). Taxon, 2004, 53, 91-98.	0.7	9
60	Evidence for extreme sequence divergence between the male- and female-transmitted mitochondrial genomes in the bivalve mollusc, <i>Modiolus modiolus</i> (Mytilidae). Journal of Zoological Systematics and Evolutionary Research, 2017, 55, 89-97.	1.4	9
61	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
62	Non-target Gelechiidae and Noctuidae attraction to <i>Aroga trialbamaculella</i> (Lepidoptera: Gelechiidae) pheromone-based trapping systems. Canadian Entomologist, 2013, 145, 48-52.	0.8	7
63	Evaluating the utility of the female-specific mitochondrial <i>orf</i> gene for population genetic, phylogeographic and systematic studies in freshwater mussels (Bivalvia: Unionida). PeerJ, 2018, 6, e5007.	2.0	7
64	Sexual dimorphism in thick-billed murre, <i>Uria lomvia</i> . Canadian Journal of Zoology, 1993, 71, 346-351.	1.0	6
65	Population structure of Purple Sandpipers ( <i>Calidris maritima</i> ) as revealed by mitochondrial DNA and microsatellites. Ecology and Evolution, 2017, 7, 3225-3242.	1.9	6
66	An Unusual Evolutionary Strategy: The Origins, Genetic Repertoire, and Implications of Doubly Uniparental Inheritance of Mitochondrial DNA in Bivalves. , 2020, , 301-323.		6
67	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
68	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
69	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. Conservation Genetics, 2009, 10, 851-857.	1.5	5
70	Distribution and frequency of mitochondrial DNA polymorphisms in blue mussel ( <i>Mytilus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T 608-613.	1.0	5
71	Mitochondrial Genes, Sex Determination and Hermaphroditism in Freshwater Mussels (Bivalvia:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 147 T		5
72	Breeding biology of an insular population of the masked shrew ( <i>Sorex cinereus</i> Kerr) in Nova Scotia. Canadian Journal of Zoology, 1992, 70, 62-66.	1.0	4

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73	Differential display reverse transcription PCR applied to male <i>Mytilus edulis</i> mussels with two distinct mitochondrial DNA types. <i>Biochemical Systematics and Ecology</i> , 2005, 33, 715-724.	1.3	4
74	A Disjunct Population of <i>Sorex dispar</i> (Long-tailed Shrew) in Nova Scotia. <i>Northeastern Naturalist</i> , 2006, 13, 603-608.	0.3	4
75	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
76	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
77	Expanding the Search for Sperm Transmission Elements in the Mitochondrial Genomes of Bivalve Mollusks. <i>Genes</i> , 2021, 12, 1211.	2.4	4
78	The influence of environmental conditions on sex determination in the blue mussel <i>Mytilus edulis</i> . <i>ICES Journal of Marine Science</i> , 2022, 79, 394-402.	2.5	3
79	Delineating the Range of a Disjunct Population of Southern Flying Squirrels ( <i>Glaucomys volans</i> ). <i>American Midland Naturalist</i> , 2006, 155, 188-196.	0.4	2
80	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
81	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
82	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
83	The complete male-type mitochondrial genomes of the Fatmucket, <i>Lampsilis siliquoidea</i> , and the endangered Arkansas Fatmucket, <i>Lampsilis powellii</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 107-109.	0.4	2
84	Characterisation of a unique dipeptidase allele in an insular population of masked shrews, <i>Sorex cinereus</i> (Insectivora: Soricidae). <i>Biochemical Systematics and Ecology</i> , 2003, 31, 573-580.	1.3	1
85	Demographical and morphological differences among coyotes ( <i>Canis latrans</i> ) relative to sampling method. <i>Canadian Journal of Zoology</i> , 2021, 99, 197-204.	1.0	1
86	A proposed method for analyzing molecular signatures to detect hermaphroditism in freshwater mussels: a case study using the eastern floater ( <i>Pyganodon cataracta</i> ). <i>Canadian Journal of Zoology</i> , 2021, 99, 450-458.	1.0	1
87	New geographic records for <i>Echinococcus canadensis</i> in coyotes and moose from Nova Scotia, Canada. <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2021, 16, 285-288.	1.5	1
88	Non-target Gelechiidae and Noctuidae attraction to Aroga trialbamaculella (Lepidoptera: Gelechiidae) pheromone-based trapping systems – CORRIGENDUM. <i>Canadian Entomologist</i> , 2013, 145, 124-124.	0.8	0