Mark Dowton

List of Publications by Year
in descending order

88 papers	4,564 citations	71102 41 h-index	106344 65 g-index
89 all docs	89 docs citations	89 times ranked	3266 citing authors

#	Article	IF	Citations
1	Evolutionary dynamics of a mitochondrial rearrangement "hot spot" in the Hymenoptera. Molecular Biology and Evolution, 1999, 16, 298-309.	8.9	209
2	Molecular phylogeny of the insect order Hymenoptera: apocritan relationships.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9911-9915.	7.1	192
3	Mitochondrial gene rearrangements as phylogenetic characters in the invertebrates: the examination of genome 'morphology'. Invertebrate Systematics, 2002, 16, 345.	1.3	178
4	Characterization of 67 Mitochondrial tRNA Gene Rearrangements in the Hymenoptera Suggests That Mitochondrial tRNA Gene Position Is Selectively Neutral. Molecular Biology and Evolution, 2009, 26, 1607-1617.	8.9	176
5	Increased Congruence Does Not Necessarily Indicate Increased Phylogenetic Accuracyâ€"The Behavior of the Incongruence Length Difference Test in Mixed-Model Analyses. Systematic Biology, 2002, 51, 19-31.	5.6	165
6	Rates of Gene Rearrangement and Nucleotide Substitution Are Correlated in the Mitochondrial Genomes of Insects. Molecular Biology and Evolution, 2003, 20, 1612-1619.	8.9	145
7	SYSTEMATICS, EVOLUTION, AND BIOLOGY OF SCELIONID AND PLATYGASTRID WASPS. Annual Review of Entomology, 2005, 50, 553-582.	11.8	145
8	Beyond barcoding: A mitochondrial genomics approach to molecular phylogenetics and diagnostics of blowflies (Diptera: Calliphoridae). Gene, 2012, 511, 131-142.	2.2	142
9	Using COI barcodes to identify forensically and medically important blowflies. Medical and Veterinary Entomology, 2007, 21, 44-52.	1.5	139
10	Distribution of Intimin Subtypes among Escherichia coli Isolates from Ruminant and Human Sources. Journal of Clinical Microbiology, 2003, 41, 5022-5032.	3.9	131
11	Intramitochondrial recombination â€" is it why some mitochondrial genes sleep around?. Trends in Ecology and Evolution, 2001, 16, 269-271.	8.7	119
12	Frequent Mitochondrial Gene Rearrangements at the Hymenopteran nad3-nad5 Junction. Journal of Molecular Evolution, 2003, 56, 517-526.	1.8	115
13	Increased genetic diversity in mitochondrial genes is correlated with the evolution of parasitism in the Hymenoptera. Journal of Molecular Evolution, 1995, 41, 958-65.	1.8	94
14	Mitochondrial genome organization and phylogeny of two vespid wasps. Genome, 2008, 51, 800-808.	2.0	93
15	Contrasting Rates of Mitochondrial Molecular Evolution in Parasitic Diptera and Hymenoptera. Molecular Biology and Evolution, 2002, 19, 1100-1113.	8.9	91
16	Phylogenetic approaches for the analysis of mitochondrial genome sequence data in the Hymenoptera â€" A lineage with both rapidly and slowly evolving mitochondrial genomes. Molecular Phylogenetics and Evolution, 2009, 52, 512-519.	2.7	90
17	Phylogenetic Relationships among the Microgastroid Wasps (Hymenoptera: Braconidae): Combined Analysis of 16S and 28S rDNA Genes and Morphological Data. Molecular Phylogenetics and Evolution, 1998, 10, 354-366.	2.7	85
18	DNA-based identification of forensically important Australian Sarcophagidae (Diptera). International Journal of Legal Medicine, 2011, 125, 27-32.	2.2	85

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19	The position of the Hymenoptera within the Holometabola as inferred from the mitochondrial genome of Perga condei (Hymenoptera: Symphyta: Pergidae). Molecular Phylogenetics and Evolution, 2005, 34, 469-479.	2.7	84
20	Evolutionary relationships among the Braconidae (Hymenoptera: Ichneumonoidea) inferred from partial 16S rDNA gene sequences. Insect Molecular Biology, 1998, 7, 129-150.	2.0	83
21	Simultaneous analysis of 16S, 28S, COI and morphology in the Hymenoptera: Apocrita - evolutionary transitions among parasitic wasps. Biological Journal of the Linnean Society, 2001, 74, 87-111.	1.6	82
22	Molecular phylogeny of the apocritan wasps: the Proctotrupomorpha and Evaniomorpha. Systematic Entomology, 1997, 22, 245-255.	3.9	78
23	Simultaneous Molecular and Morphological Analysis of Braconid Relationships (Insecta:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 Journal of Molecular Evolution, 2002, 54, 210-226.	1.8	78
24	Estimating ancestral geographical distributions: a Gondwanan origin for aphid parasitoids?. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 491-496.	2.6	77
25	The Plasminogen-Binding Group A Streptococcal M Protein-Related Protein Prp Binds Plasminogen via Arginine and Histidine Residues. Journal of Bacteriology, 2007, 189, 1435-1440.	2.2	71
26	Higher-level phylogeny of the Hymenoptera inferred from mitochondrial genomes. Molecular Phylogenetics and Evolution, 2015, 84, 34-43.	2.7	69
27	Phylogeny of the platygastroid wasps (Hymenoptera) based on sequences from the 18S rRNA, 28S rRNA and cytochrome oxidase I genes: implications for the evolution of the ovipositor system and host relationships. Biological Journal of the Linnean Society, 0, 91, 653-669.	1.6	68
28	Identification of key components in the irreversibility of salmon calcitonin binding to calcitonin receptors. Journal of Endocrinology, 2000, 166, 213-226.	2.6	65
29	Mitochondrial genomes of Vanhornia eucnemidarum (Apocrita: Vanhorniidae) and Primeuchroeus spp. (Aculeata: Chrysididae): evidence of rearranged mitochondrial genomes within the Apocrita (Insecta:) Tj ETQq1 1 0.784314 rgBT /Overlo	2.8	63
30	Mitochondrial DNA recombination in a free-ranging Australian lizard. Biology Letters, 2007, 3, 189-192.	2.3	62
31	Evidence for AT-Transversion Bias in Wasp (Hymenoptera: Symphyta) Mitochondrial Genes and Its Implications for the Origin of Parasitism. Journal of Molecular Evolution, 1997, 44, 398-405.	1.8	59
32	Phylogenetic relationships among microgastrine braconid wasp genera based on data from the 16S, COI and 28S genes and morphology. Systematic Entomology, 2002, 27, 337-359.	3.9	54
33	<scp>DNA</scp> Barcoding Identifies all Immature Life Stages of a Forensically Important Flesh Fly (Diptera: Sarcophagidae). Journal of Forensic Sciences, 2013, 58, 184-187.	1.6	54
34	A Preliminary Framework for DNA Barcoding, Incorporating the Multispecies Coalescent. Systematic Biology, 2014, 63, 639-644.	5.6	53
35	Sequence and Characterization of Six Mitochondrial Subgenomes from Globodera rostochiensis: Multipartite Structure Is Conserved Among Close Nematode Relatives. Journal of Molecular Evolution, 2007, 65, 308-315.	1.8	49
36	Molecular analyses of the Apocrita (Insecta:Hymenoptera) suggest that the Chalcidoidea are sister to the diaprioid complex. Invertebrate Systematics, 2006, 20, 603.	1.3	48

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37	Evolutionary Dynamics of the Mitochondrial Genome in the Evaniomorpha (Hymenoptera)â€"A Group with an Intermediate Rate of Gene Rearrangement. Genome Biology and Evolution, 2014, 6, 1862-1874.	2.5	47
38	The Mitochondrial Subgenomes of the Nematode Globodera pallida Are Mosaics: Evidence of Recombination in an Animal Mitochondrial Genome. Journal of Molecular Evolution, 2007, 64, 463-471.	1.8	45
39	Identification of forensically important Chrysomya (Diptera: Calliphoridae) species using the second ribosomal internal transcribed spacer (ITS2). Forensic Science International, 2008, 177, 238-247.	2.2	45
40	The mitochondrial genome of the stingless bee Melipona bicolor (Hymenoptera, Apidae, Meliponini): sequence, gene organization and a unique tRNA translocation event conserved across the tribe Meliponini. Genetics and Molecular Biology, 2008, 31, 451-460.	1.3	45
41	Relationships among the Cyclostome Braconid (Hymenoptera: Braconidae) Subfamilies Inferred from a Mitochondrial tRNA Gene Rearrangement. Molecular Phylogenetics and Evolution, 1999, 11, 283-287.	2.7	44
42	Intraspecific Concerted Evolution of the rDNA ITS1 in Anopheles farauti Sensu Stricto (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 397-411.	1.8	42
43	Population genetic structure, gene flow and sexâ€biased dispersal in frillneck lizards (<i>Chlamydosaurus kingii</i>). Molecular Ecology, 2008, 17, 3557-3564.	3.9	41
44	The first mitochondrial genome for the wasp superfamily Platygastroidea: the egg parasitoid Trissolcus basalis. Genome, 2012, 55, 194-204.	2.0	38
45	The evolution of strand-specific compositional bias. A case study in the Hymenopteran mitochondrial 16S rRNA gene. Molecular Biology and Evolution, 1997, 14, 109-112.	8.9	37
46	Coexistence of Minicircular and a Highly Rearranged mtDNA Molecule Suggests That Recombination Shapes Mitochondrial Genome Organization. Molecular Biology and Evolution, 2014, 31, 636-644.	8.9	37
47	Two Distinct Genotypes of prtF2, Encoding a Fibronectin Binding Protein, and Evolution of the Gene Family in Streptococcus pyogenes. Journal of Bacteriology, 2004, 186, 7601-7609.	2.2	34
48	Mitochondrial genomes in the Hymenoptera and their utility as phylogenetic markers. Systematic Entomology, 2007, 32, 60-69.	3.9	34
49	Examining the phylogeny of the Australasian Lymnaeidae (Heterobranchia: Pulmonata: Gastropoda) using mitochondrial, nuclear and morphological markers. Molecular Phylogenetics and Evolution, 2009, 52, 643-659.	2.7	34
50	Divergence in the Plasminogen-binding Group A Streptococcal M Protein Family. Journal of Biological Chemistry, 2006, 281, 3217-3226.	3.4	32
51	Comprehensive evaluation of DNA barcoding for the molecular species identification of forensically important Australian Sarcophagidae (Diptera). Invertebrate Systematics, 2012, 26, 515.	1.3	28
52	Utility of COI, CAD and morphological data for resolving relationships within the genus Sarcophaga (sensu lato) (Diptera: Sarcophagidae): A preliminary study. Molecular Phylogenetics and Evolution, 2013, 69, 133-141.	2.7	28
53	Complete mitochondrial genomes of Ceratobaeus sp. and Idris sp. (Hymenoptera: Scelionidae): shared gene rearrangements as potential phylogenetic markers at the tribal level. Molecular Biology Reports, 2014, 41, 6419-6427.	2.3	22
54	The mitochondrial genome of the soybean cyst nematode,<i>Heterodera glycines</i>. Genome, 2011, 54, 565-574.	2.0	20

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55	The release of Leu5-enkephalin-like immunoreactivity from chicken retina is reduced by light in vitro. Brain Research, 1989, 488, 43-48.	2.2	17
56	Light inhibits the release of both [Met5]enkephalin and [Met5]enkephalin-containing peptides in chicken retina, but not their syntheses. Neuroscience, 1990, 38, 187-193.	2.3	17
57	Endogenous dopamine inhibits the release of enkephalin-like immunoreactivity from amacrine cells of the chicken retina in the light. Brain Research, 1994, 645, 240-246.	2.2	17
58	A key to the Australian Sarcophagidae (Diptera) with special emphasis on <i>Sarcophaga</i> (<i>sensu lato</i>). Zootaxa, 2013, 3680, .	0.5	17
59	Thermal attributes of <i>Chrysomya</i> species. Entomologia Experimentalis Et Applicata, 2009, 133, 260-275.	1.4	16
60	R270C polymorphism leads to loss of function of the canine P2X7 receptor. Physiological Genomics, 2014, 46, 512-522.	2.3	15
61	Poly(T) Variation in Heteroderid Nematode Mitochondrial Genomes is Predominantly an Artefact of Amplification. Journal of Molecular Evolution, 2011, 72, 182-192.	1.8	14
62	Direct sequencing of double-stranded PCR products without intermediate fragment purification; digestion with mung bean nuclease. Nucleic Acids Research, 1993, 21, 3599-3600.	14.5	13
63	Assessing the Relative Rate of (Mitochondrial) Genomic Change. Genetics, 2004, 167, 1027-1030.	2.9	13
64	Latitudinal Biogeographic Structuring in the Globally Distributed Moss Ceratodon purpureus. Frontiers in Plant Science, 2020, 11, 502359.	3.6	13
65	Paternal leakage of mitochondrial DNA in experimental crosses of populations of the potato cyst nematode Globodera pallida. Genetica, 2011, 139, 1509-1519.	1.1	12
66	Repeated cyclone events reveal potential causes of sociality in coral-dwelling Gobiodon fishes. PLoS ONE, 2018, 13, e0202407.	2.5	12
67	Acetylcholinesterase converts Met5-enkephalin-containing peptides to Met5-enkephalin. Neuroscience Letters, 1988, 94, 151-155.	2.1	11
68	Poly(T) Variation Within Mitochondrial Protein-Coding Genes in Globodera (Nematoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (H	1.8	11
69	Evidence of animal mtDNA recombination between divergent populations of the potato cyst nematode Globodera pallida. Genetica, 2012, 140, 19-29.	1.1	11
70	Pharmacological and genetic characterisation of the canine P2X4 receptor. British Journal of Pharmacology, 2020, 177, 2812-2829.	5.4	11
71	Glycinergic control of [Leu5]enkephalin levels in chicken retina. Brain Research, 1991, 557, 221-226.	2.2	10
72	[Leu5]enkephalin-like immunoreactive amacrine cells are under nicotinic excitatory control during darkness in chicken retina. Brain Research, 1993, 624, 137-142.	2.2	10

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73	Uneven declines between corals and cryptobenthic fish symbionts from multiple disturbances. Scientific Reports, 2021, 11, 16420.	3.3	10
74	Purification of Calcitonin-Like Peptides from Rat Brain and Pituitary. Endocrinology, 1998, 139, 982-992.	2.8	10
75	Purification and properties of glutamine synthetase from fleshfly flight muscle. Insect Biochemistry, 1985, 15, 763-770.	1.8	9
76	Models of analysis for molecular datasets for the reconstruction of basal hymenopteran relationships. Zoologica Scripta, 1999, 28, 69-74.	1.7	7
77	Genome-Wide SNPs Detect Hybridisation of Marsupial Gliders (Petaurus breviceps breviceps Ã— Petaurus) Tj ETQq1 1 0.784314 rgBT	2.4	7
78	Drivers of sociality in Gobiodon fishes: An assessment of phylogeny, ecology and life-history. Molecular Phylogenetics and Evolution, 2019, 137, 263-273.	2.7	6
79	Somatostatin-14 and somatostatin-28 levels are light-driven and vary during development in the chicken retina. Developmental Brain Research, 1994, 78, 65-69.	1.7	5
80	A Comparison of Three Molecular Markers for the Identification of Populations of Globodera pallida. Journal of Nematology, 2012, 44, 7-17.	0.9	5
81	Localization of glutamine synthetase in fleshfly flight muscle. Insect Biochemistry, 1988, 18, 717-727.	1.8	4
82	Electrophoretic Mobility and Glycosylation Characteristics of Heterogeneously Expressed Calcitonin Receptors. Endocrinology, 1997, 138, 530-539.	2.8	4
83	Citation policy on sequences. Nature, 1996, 381, 550-550.	27.8	3
84	Incorrect report of cryptic species within Chrysomya rufifacies (Diptera:Calliphoridae). Invertebrate Systematics, 2009, 23, 507.	1.3	3
85	Genome-wide SNPs detect fine-scale genetic structure in threatened populations of squirrel glider Petaurus norfolcensis. Conservation Genetics, 2022, 23, 541-558.	1.5	3
86	Purification of glutamine synthetase by adenosine-affinity chromatography. Journal of Chromatography A, 1994, 664, 280-283.	3.7	2
87	Glutamine metabolism in fleshfly (Parasarcophaga crassipalpis) tissues. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 85, 593-600.	0.2	1
88	Notes on the Distribution of 31 Species of Sarcophagidae (Diptera) in Australia, Including new Records in Australia for Eight Species. Transactions of the Royal Society of South Australia, 2012, 136, 56-64.	0.4	1