

# Gavin J P Naylor

## List of Publications by Year in descending order

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85  
papers

5,061  
citations

159585

30  
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114465

63  
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87  
all docs

87  
docs citations

87  
times ranked

5369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards complete and error-free genome assemblies of all vertebrate species. <i>Nature</i> , 2021, 592, 737-746.	27.8	1,139
2	Rates of mitochondrial DNA evolution in sharks are slow compared with mammals. <i>Nature</i> , 1992, 357, 153-155.	27.8	488
3	Evidence for an ancient adaptive episode of convergent molecular evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8986-8991.	7.1	284
4	Amphioxus Mitochondrial DNA, Chordate Phylogeny, and the Limits of Inference Based on Comparisons of Sequences. <i>Systematic Biology</i> , 1998, 47, 61-76.	5.6	224
5	The interface of protein structure, protein biophysics, and molecular evolution. <i>Protein Science</i> , 2012, 21, 769-785.	7.6	188
6	Elasmobranch Phylogeny. <i>Marine Biology</i> , 2012, , 31-56.	0.1	184
7	Capturing protein-coding genes across highly divergent species. <i>BioTechniques</i> , 2013, 54, 321-326.	1.8	175
8	Body plan convergence in the evolution of skates and rays (Chondrichthyes: Batoidea). <i>Molecular Phylogenetics and Evolution</i> , 2012, 63, 28-42.	2.7	154
9	Conservation genomics of natural and managed populations: building a conceptual and practical framework. <i>Molecular Ecology</i> , 2016, 25, 2967-2977.	3.9	141
10	Hydrophobicity and phylogeny. <i>Nature</i> , 1995, 373, 565-566.	27.8	138
11	Molecular phylogenetics and evolution of turtles. <i>Molecular Phylogenetics and Evolution</i> , 2005, 37, 178-191.	2.7	128
12	A revised classification of the family Dasyatidae (Chondrichthyes:ÂMyliobatiformes) based on new morphological and molecular insights. <i>Zootaxa</i> , 2016, 4139, 345-68.	0.5	125
13	Structural biology and phylogenetic estimation. <i>Nature</i> , 1997, 388, 527-528.	27.8	123
14	Phylogeny of the manta and devilrays (Chondrichthyes: mobulidae), with an updated taxonomic arrangement for the family. <i>Zoological Journal of the Linnean Society</i> , 2018, 182, 50-75.	2.3	113
15	Species delineation and global population structure of Critically Endangered sawfishes (Pristidae). <i>Zoological Journal of the Linnean Society</i> , 2013, 167, 136-164.	2.3	96
16	Can We Identify Genes with Increased Phylogenetic Reliability?. <i>Systematic Biology</i> , 2015, 64, 824-837.	5.6	80
17	Choosing the Best Genes for the Job: The Case for Stationary Genes in Genome-Scale Phylogenetics. <i>Systematic Biology</i> , 2005, 54, 493-500.	5.6	79
18	Phylogeny of sharks of the family Triakidae (Carcharhiniformes) and its implications for the evolution of carcharhiniform placental viviparity. <i>Molecular Phylogenetics and Evolution</i> , 2006, 40, 50-60.	2.7	67

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19	DNA capture reveals transoceanic gene flow in endangered river sharks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13302-13307.	7.1	65
20	Conserved Genes, Sampling Error, and Phylogenomic Inference. <i>Systematic Biology</i> , 2014, 63, 257-262.	5.6	64
21	THE PHYLOGENETIC RELATIONSHIPS AMONG REQUIEM AND HAMMERHEAD SHARKS: INFERRING PHYLOGENY WHEN THOUSANDS OF EQUALLY MOST PARSIMONIOUS TREES RESULT. <i>Cladistics</i> , 1992, 8, 295-318.	3.3	56
22	A new species of guitarfish, <i>Rhinobatos borneensis</i> sp. nov. with a redefinition of the family-level classification in the order <i>Rhinopristiformes</i> (Chondrichthyes: Batoidea). <i>Zootaxa</i> , 2016, 4117, 451-75.	0.5	54
23	Rapid flux in plant genomes. <i>Nature Genetics</i> , 1998, 20, 6-6.	21.4	46
24	Taxonomic assessment of sharks, rays and guitarfishes (Chondrichthyes: Elasmobranchii) from south-eastern Arabia, using the NADH dehydrogenase subunit 2 (NADH2) gene. <i>Zoological Journal of the Linnean Society</i> , 2016, 176, 399-442.	2.3	45
25	Revision of the genus <i>Centrophorus</i> (Squaliformes: Centrophoridae): Part 1 – Redescription of <i>Centrophorus granulosus</i> (Bloch & Schneider), a senior synonym of <i>C. acus</i> Garman and <i>C. niukang</i> Teng. <i>Zootaxa</i> , 2013, 3752, 35-72.	0.5	42
26	Mitogenomics of the Spertooth Shark challenges ten years of control region sequencing. <i>BMC Evolutionary Biology</i> , 2014, 14, 232.	3.2	39
27	Rediscovery of the Threatened River Sharks, <i>Glyphis garricki</i> and <i>G. glyphis</i> , in Papua New Guinea. <i>PLoS ONE</i> , 2015, 10, e0140075.	2.5	39
28	An annotated checklist of the chondrichthyans of Taiwan. <i>Zootaxa</i> , 2013, 3752, 279-386.	0.5	33
29	Measuring Shifts in Function and Evolutionary Opportunity Using Variability Profiles: A Case Study of the Globins. <i>Journal of Molecular Evolution</i> , 2000, 51, 223-233.	1.8	32
30	Rediscovery and redescription of the smoothtooth blacktip shark, <i>Carcharhinus leiodon</i> (Carcharhinidae), from Kuwait, with notes on its possible conservation status. <i>Marine and Freshwater Research</i> , 2011, 62, 528.	1.3	32
31	Phylogenomic analysis on the exceptionally diverse fish clade Gobioidae (Actinopterygii: Gobiiformes) and data-filtering based on molecular clocklikeness. <i>Molecular Phylogenetics and Evolution</i> , 2018, 128, 192-202.	2.7	32
32	Phylogenetics of Chondrichthyes and the problem of rooting phylogenies with distant outgroups. <i>Molecular Phylogenetics and Evolution</i> , 2012, 63, 365-373.	2.7	29
33	Resurrection of the family Aetobatidae (Myliobatiformes) for the pelagic eagle rays, genus <i>Aetobatus</i> . <i>Zootaxa</i> , 2016, 4139, 435-8.	0.5	28
34	EvoMarkers: a database for mining exon and intron markers for evolution, ecology and conservation studies. <i>Molecular Ecology Resources</i> , 2012, 12, 967-971.	4.8	26
35	Population genomics of <i>C. melanopterus</i> using target gene capture data: demographic inferences and conservation perspectives. <i>Scientific Reports</i> , 2016, 6, 33753.	3.3	26
36	A DNA sequence-based identification checklist for Taiwanese chondrichthyans. <i>Zootaxa</i> , 2013, 3752, 256-78.	0.5	25

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37	Historical introgression drives pervasive mitochondrial admixture between two species of pelagic sharks. <i>Molecular Phylogenetics and Evolution</i> , 2017, 110, 122-126.	2.7	24
38	Dental patterning in the earliest sharks: Implications for tooth evolution. <i>Journal of Morphology</i> , 2014, 275, 586-596.	1.2	23
39	An Enzymatic Atavist Revealed in Dual Pathways for Water Activation. <i>PLoS Biology</i> , 2008, 6, e206.	5.6	22
40	The Relationship between s and m and the Retention Index. <i>Systematic Biology</i> , 1995, 44, 559-562.	5.6	21
41	Demographic inferences after a range expansion can be biased: the test case of the blacktip reef shark ( <i>Carcharhinus melanopterus</i> ). <i>Heredity</i> , 2019, 122, 759-769.	2.6	21
42	Integrative taxonomy identifies a new stingray species of the genus <i>Hypanus</i> Rafinesque, 1818 (Dasyatidae, Myliobatiformes), from the Tropical Southwestern Atlantic. <i>Journal of Fish Biology</i> , 2020, 97, 1120-1142.	1.6	20
43	Phylogeny Reconstruction and Functional Constraints in Organellar Genomes: Plastid atpB and rbcl Sequences Versus Animal Mitochondrion. <i>Systematic Biology</i> , 2002, 51, 638-647.	5.6	16
44	Three new stingrays (Myliobatiformes: Dasyatidae) from the Indo-West Pacific. <i>Zootaxa</i> , 2016, 4147, 377-402.	0.5	16
45	<i>Chimaera carophila</i> (Chondrichthyes: Chimaeriformes: Chimaeridae), a new species of chimaera from New Zealand. <i>Bulletin of Marine Science</i> , 2014, 91, 63-81.	0.8	13
46	Revision of the genus <i>Centrophorus</i> (Squaliformes: Centrophoridae): Part 2—Description of two new species of <i>Centrophorus</i> and clarification of the status of <i>Centrophorus lusitanicus</i> Barbosa du Bocage & de Brito Capello, 1864. <i>Zootaxa</i> , 2017, 4344, 86-114.	0.5	13
47	A gene-specific DNA sequencing chip for exploring molecular evolutionary change. <i>Nucleic Acids Research</i> , 2004, 32, 1208-1213.	14.5	12
48	What's in a Likelihood? Simple Models of Protein Evolution and the Contribution of Structurally Viable Reconstructions to the Likelihood. <i>Systematic Biology</i> , 2011, 60, 161-174.	5.6	12
49	<i>Acroteriobatus omanensis</i> (Batoidea: Rhinobatidae), a new guitarfish from the Gulf of Oman. <i>Zootaxa</i> , 2016, 4144, 276-86.	0.5	11
50	Cranial morphology in <i>Mollisquama</i> sp. (Squaliformes; Dalatiidae) and patterns of cranial evolution in dalatiid sharks. <i>Journal of Anatomy</i> , 2018, 233, 15-32.	1.5	11
51	Mosaic of plesiomorphic and derived characters in an Eocene myliobatiform batomorph (Chondrichthyes, Elasmobranchii) from Italy defines a new, basal body plan in pelagic stingrays. <i>Zoological Letters</i> , 2019, 5, 13.	1.3	11
52	Walking, swimming or hitching a ride? Phylogenetics and biogeography of the walking shark genus <i>Hemiscyllium</i> . <i>Marine and Freshwater Research</i> , 2020, 71, 1107.	1.3	11
53	<strong>First record of <em>Mollisquama</em> sp. (Chondrichthyes: Squaliformes: Tj ETQq1 1 0.784314 rgBT /Over</strong><em>Mollisquama</em> <em>parini</em> Dolganov<strong>, Zootaxa, 2015, 3948, 587.</strong>	0.5	10
54	<i>Rhynchorhina mauritaniensis</i> , a new genus and species of wedgefish from the eastern central Atlantic (Elasmobranchii: Batoidea: Rhinidae). <i>Zootaxa</i> , 2016, 4138, 291-308.	0.5	10

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55	Reappraisal of the Eocene whiptail stingrays (Myliobatiformes, Dasyatidae) of the Bolca Lagerstätte, Italy. <i>Zoologica Scripta</i> , 2019, 48, 168-184.	1.7	10
56	Comment on "An early Miocene extinction in pelagic sharks". <i>Science</i> , 2021, 374, eabj8723.	12.6	9
57	Redescription of <i>Scymnodon ichiharai</i> Yano and Tanaka 1984 (Squaliformes: Somniosidae) from the western North Pacific, with comments on the definition of somniosid genera. <i>Ichthyological Research</i> , 2015, 62, 213-229.	0.8	8
58	The Smallest Known Free-Living White Shark <i>Carcharodon carcharias</i> (Lamniformes: Lamnidae): Ecological and Management Implications. <i>Copeia</i> , 2020, 108, 39.	1.3	8
59	Conflicting Phylogenetic Patterns Caused by Molecular Mechanisms in Mitochondrial DNA Sequences. <i>Systematic Biology</i> , 1998, 47, 696-701.	5.6	7
60	A bizarre Eocene dasyatoid batomorph (Elasmobranchii, Myliobatiformes) from the Bolca Lagerstätte (Italy) reveals a new, extinct body plan for stingrays. <i>Scientific Reports</i> , 2019, 9, 14087.	3.3	7
61	Mitochondrial DNA sequencing of a wet-collection syntype demonstrates the importance of type material as genetic resource for lantern shark taxonomy (Chondrichthyes: Etmopteridae). <i>Royal Society Open Science</i> , 2021, 8, 210474.	2.4	7
62	Integrated Taxonomy Revealed Genetic Differences in Morphologically Similar and Non-Sympatric <i>Scoliodon macrorhynchus</i> and <i>S. laticaudus</i> . <i>Animals</i> , 2022, 12, 681.	2.3	7
63	PLOTTING FREQUENCY DISTRIBUTIONS OF PHYLOGENETIC GROUPINGS FOUND AMONG SETS OF MOST PARSIMONIOUS TREES. <i>Cladistics</i> , 1992, 8, 161-164.	3.3	6
64	DRUIDS? Detection of regions with unexpected internal deviation from stationarity. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 119-128.	1.3	6
65	On the occurrence of the Southern Lanternshark, <i>Etmopterus granulosus</i> , off South Africa, with comments on the validity of <i>E. compagno</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 115, 11-17.	1.4	6
66	Redescription of <i>Chimaera ogilbyi</i> (Chimaeriformes; Chimaeridae) from the Indo-Australian region. <i>Zootaxa</i> , 2018, 4375, 191-210.	0.5	6
67	First complete description of the dark-mouth skate <i>Raja arctowskii</i> Dollo, 1904 from Antarctic waters, assigned to the genus <i>Bathyraja</i> (Elasmobranchii, Rajiformes, Arhynchobatidae). <i>Marine Biodiversity</i> , 2021, 51, 1.	1.0	6
68	<i>Rhinobatos</i> , a new shovelnose ray (Batoidea: Rhinobatidae) from the Philippine Archipelago. <i>Zootaxa</i> , 2014, 3872, 31.	0.5	5
69	Redescription of the eagle rays <i>Myliobatis hamlyni</i> Ogilby, 1911 and <i>M. tobije</i> Bleeker, 1854 (Myliobatiformes: Myliobatidae) from the East Indo-West Pacific. <i>Zootaxa</i> , 2015, 3948, 521.	0.5	5
70	Revision of the Eocene <i>Platyrrhina</i> species from the Bolca Lagerstätte (Italy) reveals the first panray (Batomorphii: Zanobatidae) in the fossil record. <i>Journal of Systematic Palaeontology</i> , 2020, 18, 1519-1542.	1.5	5
71	Revision of the genus <i>Mustelus</i> (Carcharhiniformes: Triakidae) in the northern Indian Ocean, with description of a new species and a discussion on the validity of <i>M. walkeri</i> and <i>M. ravidus</i> . <i>Marine Biodiversity</i> , 2021, 51, 1.	1.0	5
72	Total Evidence Versus Relevant Evidence: A Response to O'Leary et al. (2003). <i>Systematic Biology</i> , 2003, 52, 864-865.	5.6	5

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73	Revision of the genus <i>Centrophorus</i> (Squaliformes: Centrophoridae): Part 3 – Redescription of <i>Centrophorus uyato</i> (Rafinesque) with a discussion of its complicated nomenclatural history. <i>Zootaxa</i> , 2022, 5155, 1-51.	0.5	5
74	Complete mitochondrial genome of the blacknose shark <i>Carcharhinus acronotus</i> (Elasmobranchii: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	4
75	Long-PCR based next generation sequencing of the whole mitochondrial genome of the peacock skate <i>Pavoraja nitida</i> (Elasmobranchii: Arhynchobatidae). <i>Mitochondrial DNA</i> , 2016, 27, 943-944.	0.6	4
76	Determination of complete mitochondrial genome sequence from the holotype of the southern Mandarin dogfish <i>Cirrhigaleus australis</i> (Elasmobranchii: Squalidae). <i>Mitochondrial DNA</i> , 2016, 27, 593-594.	0.6	3
77	A description of the mitogenome of the Endangered Taiwanese angelshark, <i>Squatina formosa</i> . <i>Mitochondrial DNA</i> , 2016, 27, 1305-1306.	0.6	2
78	<i>Rhinobatos manai</i> sp. nov., a new species of guitarfish (Rhinopristiformes: Rhinobatidae) from New Ireland, Papua New Guinea. <i>Zootaxa</i> , 2016, 4175, 588.	0.5	2
79	Skeletal Anatomy, Phylogenetic Relationships, and Paleoecology of the Eocene Urolophid Stingray <i>Arechia Crassicaudata</i> (Blainville, 1818) from Monte Postale (Bolca Lagerstätte, Italy). <i>Journal of Vertebrate Paleontology</i> , 2020, 40, e1803339.	1.0	2
80	Complete mitochondrial genome of the winghead shark, <i>Eusphyra blochii</i> (Elasmobranchii: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	0.4	1
81	The complete mitochondrial genome and phylogenetic position of the Philippines spurdog, <i>Squalus montalbani</i> . <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 4522-4523.	0.7	1
82	Mitogenomic sequence and phylogenetic placement of the Hortle's whipray <i>Himantura hortlei</i> (Elasmobranchii: Dasyatidae). <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 2437-2439.	0.7	1
83	Anatomy, taxonomy and phylogeny of the Eocene guitarfishes from the Bolca Lagerstätten, Italy, provide new insights into the relationships of the Rhinopristiformes (Elasmobranchii: Batomorphii). <i>Zoological Journal of the Linnean Society</i> , 2021, 192, 1090-1110.	2.3	1
84	<i>Chimaera compacta</i> , a new species from southern Indian Ocean, and an estimate of phylogenetic relationships within the genus <i>Chimaera</i> (Chondrichthyes: Chimaeridae). <i>Ichthyological Research</i> , 0, , 1.	0.8	1
85	Segmentations of the cartilaginous skeletons of chondrichthyan fishes by the use of state-of-the-art computed tomography. <i>World Journal of Radiology</i> , 2017, 9, 191.	1.1	0