Rafael Zardoya

List of Publications by Year
in descending order

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129	12,653	26626	24978
papers	citations	56	109
		h-index	g-index

242	242	242	14842
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ProtTest: selection of best-fit models of protein evolution. Bioinformatics, 2005, 21, 2104-2105.	4.1	2,809
2	TranslatorX: multiple alignment of nucleotide sequences guided by amino acid translations. Nucleic Acids Research, 2010, 38, W7-W13.	14.5	1,238
3	Molecular Evidence on the Evolutionary and Biogeographical Patterns of European Cyprinids. Journal of Molecular Evolution, 1999, 49, 227-237.	1.8	393
4	Phylogenetic performance of mitochondrial protein-coding genes in resolving relationships among vertebrates. Molecular Biology and Evolution, 1996, 13, 933-942.	8.9	371
5	Phylogeny and evolution of the major intrinsic protein family. Biology of the Cell, 2005, 97, 397-414.	2.0	251
6	Initial Diversification of Living Amphibians Predated the Breakup of Pangaea. American Naturalist, 2005, 165, 590-599.	2.1	228
7	The complete nucleotide sequence of the mitochondrial DNA genome of the rainbow trout, Oncorhynchus mykiss. Journal of Molecular Evolution, 1995, 41, 942-51.	1.8	202
8	A Hotspot of Gene Order Rearrangement by Tandem Duplication and Random Loss in the Vertebrate Mitochondrial Genome. Molecular Biology and Evolution, 2006, 23, 227-234.	8.9	200
9	Diversity and evolution of membrane intrinsic proteins. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1468-1481.	2.4	199
10	Complete mitochondrial genome suggests diapsid affinities of turtles. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14226-14231.	7.1	194
11	Recent Advances in the (Molecular) Phylogeny of Vertebrates. Annual Review of Ecology, Evolution, and Systematics, 2003, 34, 311-338.	8.3	190
12	Phylogeny of caecilian amphibians (Gymnophiona) based on complete mitochondrial genomes and nuclear RAG1. Molecular Phylogenetics and Evolution, 2004, 33, 413-427.	2.7	163
13	Molecular phylogenetics of Gobioidei and phylogenetic placement of European gobies. Molecular Phylogenetics and Evolution, 2013, 69, 619-633.	2.7	160
14	MtArt: A New Model of Amino Acid Replacement for Arthropoda. Molecular Biology and Evolution, 2006, 24, 1-5.	8.9	159
15	Evolution of gastropod mitochondrial genome arrangements. BMC Evolutionary Biology, 2008, 8, 61.	3.2	157
16	Limitations of Metazoan 18S rRNA Sequence Data: Implications for Reconstructing a Phylogeny of the Animal Kingdom and Inferring the Reality of the Cambrian Explosion. Journal of Molecular Evolution, 1998, 47, 394-405.	1.8	150
17	Differential population structuring of two closely related fish species, the mackerel (Scomber) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2004, 13, 1785-1798.	3.9	150
18	LRRC8 proteins share a common ancestor with pannexins, and may form hexameric channels involved in cellâ€cell communication. BioEssays, 2012, 34, 551-560.	2.5	140

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19	Phylogenetic relationships of Iberian cyprinids: systematic and biogeographical implications. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 1365-1372.	2.6	130
20	The evolutionary position of turtles revised. Die Naturwissenschaften, 2001, 88, 193-200.	1.6	128
21	The Complete Nucleotide Sequence of the Mitochondrial Genome of the Lungfish (Protopterus) Tj ETQq1 1 0.784314 rgBT /Overlock 142, 1249-1263.	2.9	124
22	RAPID SPECIATION AND ECOLOGICAL DIVERGENCE IN THE AMERICAN SEVEN-SPINED GOBIES (GOBIIDAE,) Tj ETQq0 0 0 rgBT /Overlock Organic Evolution, 2003, 57, 1584-1598.	2.3	120
23	The Complete Mitochondrial DNA Sequence of the Bichir (Polypterus ornatipinnis), a Basal Ray-Finned Fish: Ancient Establishment of the Consensus Vertebrate Gene Order. Genetics, 1996, 144, 1165-1180.	2.9	119
24	Neogastropod phylogenetic relationships based on entire mitochondrial genomes. BMC Evolutionary Biology, 2009, 9, 210.	3.2	116
25	Evolutionary relationships of the coelacanth, lungfishes, and tetrapods based on the 28S ribosomal RNA gene.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 5449-5454.	7.1	112
26	A Phylogenetic Framework for the Aquaporin Family in Eukaryotes. Journal of Molecular Evolution, 2001, 52, 391-404.	1.8	109
27	Evolutionary analyses of gap junction protein families. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 4-14.	2.6	109
28	The Complete DNA Sequence of the Mitochondrial Genome of a â€œLiving Fossil,â€•the Coelacanth (Latimeria chalumnae). Genetics, 1997, 146, 995-1010.	2.9	107
29	On the origin of and phylogenetic relationships among living amphibians. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7380-7383.	7.1	103
30	Phylogeny and biogeography of 91 species of heroine cichlids (Teleostei: Cichlidae) based on sequences of the cytochrome b gene. Molecular Phylogenetics and Evolution, 2007, 43, 91-110.	2.7	99
31	Phylogenetic relationships of European strains of porcine reproductive and respiratory syndrome virus (PRRSV) inferred from DNA sequences of putative ORF-5 and ORF-7 genes. Virus Research, 1996, 42, 159-165.	2.2	91
32	Life-history evolution and mitogenomic phylogeny of caecilian amphibians. Molecular Phylogenetics and Evolution, 2014, 73, 177-189.	2.7	91
33	Evolutionary and biogeographic patterns of the Badidae (Teleostei: Perciformes) inferred from mitochondrial and nuclear DNA sequence data. Molecular Phylogenetics and Evolution, 2004, 32, 1010-1022.	2.7	90
34	Evolution of the Insulin Receptor Family and Receptor Isoform Expression in Vertebrates. Molecular Biology and Evolution, 2008, 25, 1043-1053.	8.9	90
35	EVOLUTIONARY BIOLOGY IN BIODIVERSITY SCIENCE, CONSERVATION, AND POLICY: A CALL TO ACTION. Evolution; International Journal of Organic Evolution, 2010, 64, 1517-28.	2.3	87
36	Parallel Evolution of the Genetic Code in Arthropod Mitochondrial Genomes. PLoS Biology, 2006, 4, e127.	5.6	86

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37	Molecular Phylogeny of Euthyneura (Mollusca: Gastropoda). Molecular Biology and Evolution, 2003, 21, 303-313.	8.9	84
38	Molecular Phylogenetics and Evolutionary Diversification of Labyrinth Fishes (Perciformes:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td	5.6	81
39	Direct detection of the porcine reproductive and respiratory syndrome (PRRS) virus by reverse polymerase chain reaction (RT-PCR). Archives of Virology, 1994, 135, 89-99.	2.1	80
40	Origin of plant glycerol transporters by horizontal gene transfer and functional recruitment. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14893-14896.	7.1	77
41	Biogeography of the Mesoamerican Cichlidae (Teleostei: Heroini): colonization through the GAARlandia land bridge and early diversification. Journal of Biogeography, 2013, 40, 579-593.	3.0	77
42	Platyrrhine systematics: A simultaneous analysis of molecular and morphological data. American Journal of Physical Anthropology, 1998, 106, 261-281.	2.1	73
43	Phylogenetic Relationships of Greek Cyprinidae: Molecular Evidence for at Least Two Origins of the Greek Cyprinid Fauna. Molecular Phylogenetics and Evolution, 1999, 13, 122-131.	2.7	71
44	RAPID CLADOGENESIS IN MARINE FISHES REVISITED. Evolution; International Journal of Organic Evolution, 2005, 59, 1119-1127.	2.3	68
45	The complete mitochondrial DNA sequence of the Mekong giant catfish (Pangasianodon gigas), and the phylogenetic relationships among Siluriformes. Gene, 2007, 387, 49-57.	2.2	67
46	Effect of taxon sampling on recovering the phylogeny of squamate reptiles based on complete mitochondrial genome and nuclear gene sequence data. Gene, 2009, 441, 12-21.	2.2	66
47	Evolution and orthology of hedgehog genes. Trends in Genetics, 1996, 12, 496-497.	6.7	65
48	Phylogenetic relationships of discoglossid frogs (Amphibia:Anura:Discoglossidae) based on complete mitochondrial genomes and nuclear genes. Gene, 2004, 343, 357-366.	2.2	65
49	Genetic diversity and historical demography of Atlantic bigeye tuna (Thunnus obesus). Molecular Phylogenetics and Evolution, 2006, 39, 404-416.	2.7	65
50	Signature of an early genetic bottleneck in a population of Moroccan sardines (Sardina pilchardus). Molecular Phylogenetics and Evolution, 2006, 39, 373-383.	2.7	65
51	Mitochondrial and nuclear rRNA based copepod phylogeny with emphasis on the Euchaetidae (Calanoida). Marine Biology, 1999, 133, 79-90.	1.5	64
52	Phylogenetic relationships among Opisthobranchia (Mollusca: Gastropoda) based on mitochondrial cox 1, trnV, and rrnL genes. Molecular Phylogenetics and Evolution, 2004, 33, 378-388.	2.7	63
53	Recent advances in understanding mitochondrial genome diversity. F1000Research, 2020, 9, 270.	1.6	63
54	Phylogenetic relationships of Middle American cichlids (Cichlidae, Heroini) based on combined evidence from nuclear genes, mtDNA, and morphology. Molecular Phylogenetics and Evolution, 2008, 49, 941-957.	2.7	62

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55	Caenogastropod mitogenomics. Molecular Phylogenetics and Evolution, 2015, 93, 118-128.	2.7	61
56	The Complete Mitochondrial Genome of the Nudibranch Roboastra europaea (Mollusca: Gastropoda) Supports the Monophyly of Opisthobranchs. Molecular Biology and Evolution, 2002, 19, 1672-1685.	8.9	60
57	Phylogenetic Relationships of Iberian Dung Beetles (Coleoptera: Scarabaeinae): Insights on the Evolution of Nesting Behavior. Journal of Molecular Evolution, 2002, 55, 116-126.	1.8	59
58	Mitochondrial Evidence on the Phylogenetic Position of Caecilians (Amphibia: Gymnophiona). Genetics, 2000, 155, 765-775.	2.9	55
59	EVOLUTION OF MOUTHBROODING AND LIFE-HISTORY CORRELATES IN THE FIGHTING FISH GENUS BETTA. Evolution; International Journal of Organic Evolution, 2004, 58, 799-813.	2.3	54
60	Genetic structuring and migration patterns of Atlantic bigeye tuna, Thunnus obesus (Lowe, 1839). BMC Evolutionary Biology, 2008, 8, 252.	3.2	53
61	The origin of modern frogs (Neobatrachia) was accompanied by acceleration in mitochondrial and nuclear substitution rates. BMC Genomics, 2012, 13, 626.	2.8	53
62	Patterns of Cladogenesis in the Venomous Marine Gastropod Genus Conus from the Cape Verde Islands. Systematic Biology, 2005, 54, 634-650.	5.6	52
63	Relative role of life-history traits and historical factors in shaping genetic population structure of sardines (Sardina pilchardus). BMC Evolutionary Biology, 2007, 7, 197.	3.2	52
64	Evolutionary analyses of hedgehog and Hoxd-10 genes in fish species closely related to the zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 13036-13041.	7.1	51
65	Mitogenomics of Vetigastropoda: insights into the evolution of pallial symmetry. Zoologica Scripta, 2016, 45, 145-159.	1.7	50
66	Revisiting the phylogeny of Cephalopoda using complete mitochondrial genomes. Journal of Molluscan Studies, 2017, 83, 133-144.	1.2	50
67	New patellogastropod mitogenomes help counteracting long-branch attraction in the deep phylogeny of gastropod mollusks. Molecular Phylogenetics and Evolution, 2019, 133, 12-23.	2.7	50
68	MORPHOSPECIES VS. GENOSPECIES IN TOXIC MARINE DINOFLAGELLATES: AN ANALYSIS OF GYMNODINIUM CATENATUM/GYRODINIUM IMPUDICUM AND ALEXANDRIUM MINUTUM/A. LUSITANICUM USING ANTIBODIES, LECTINS, AND GENE SEQUENCES1. Journal of Phycology, 1995, 31, 801-807.	2.3	48
69	On the phylogenetic position of a rare Iberian endemic mammal, the Pyrenean desman (Galemys) Tj ETQq1 1 0.784314 rgBT /Overloc	2.2	47
70	Reversal to air-driven sound production revealed by a molecular phylogeny of tongueless frogs, family Pipidae. BMC Evolutionary Biology, 2011, 11, 114.	3.2	47
71	Phylogeographical and speciation patterns in subterranean worm lizards of the genus Blanus (Amphisbaenia: Blanidae). Molecular Ecology, 2007, 16, 1519-1531.	3.9	45
72	Bayesian analysis of hybridization and introgression between the endangered european mink (Mustela lutreola) and the polecat (Mustela putorius). Molecular Ecology, 2011, 20, 1176-1190.	3.9	45

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73	Phylogenetic relationships among superfamilies of Neritimorpha (Mollusca: Gastropoda). Molecular Phylogenetics and Evolution, 2016, 104, 21-31.	2.7	44
74	Molecular Phylogenetic Information on the Identity of the Closest Living Relative(s) of Land Vertebrates. Die Naturwissenschaften, 1997, 84, 389-397.	1.6	41
75	Cloning and characterization of a microsatellite in the mitochondrial control region of the African side-necked turtle, Pelomedusa subrufa. Gene, 1998, 216, 149-153.	2.2	40
76	Mitochondrial phylogeny of Anura (Amphibia): A case study of congruent phylogenetic reconstruction using amino acid and nucleotide characters. Gene, 2006, 366, 228-237.	2.2	40
77	Beyond Conus: Phylogenetic relationships of Conidae based on complete mitochondrial genomes. Molecular Phylogenetics and Evolution, 2017, 107, 142-151.	2.7	40
78	Antarctic Fish Mitochondrial Genomes Lack ND6 Gene. Journal of Molecular Evolution, 2007, 65, 519-528.	1.8	38
79	TRUFA: A User-Friendly Web Server for de novo RNA-seq Analysis Using Cluster Computing. Evolutionary Bioinformatics, 2015, 11, EBO.S23873.	1.2	37
80	GenDecoder: genetic code prediction for metazoan mitochondria. Nucleic Acids Research, 2006, 34, W389-W393.	14.5	36
81	A mitogenomic phylogeny of chitons (Mollusca: Polyplacophora). BMC Evolutionary Biology, 2020, 20, 22.	3.2	35
82	Oxidative stress, thermogenesis and evolution of uncoupling proteins. Journal of Biology, 2009, 8, 58.	2.7	33
83	The complete mitochondrial genome of the relict frogLeiopelma archeyi: Insights into the root of the frog Tree of Life. Mitochondrial DNA, 2010, 21, 173-182.	0.6	32
84	Integrative analyses of speciation and divergence in Psammodromus hispanicus (Squamata: Lacertidae). BMC Evolutionary Biology, 2011, 11, 347.	3.2	32
85	Replaying the tape: recurring biogeographical patterns in Cape Verde Conus after 12 million years. Molecular Ecology, 2008, 17, 885-901.	3.9	31
86	Molecular phylogeny of Acanthochitonina (Mollusca: Polyplacophora: Chitonida): three new mitochondrial genomes, rearranged gene orders and systematics. Journal of Natural History, 2014, 48, 2825-2853.	0.5	31
87	Nucleotide sequence of the sheep mitochondrial DNA D-loop and its flanking tRNA genes. Current Genetics, 1995, 28, 94-96.	1.7	30
88	Complete nucleotide sequence of the mitochondrial genome of a salamander, Mertensiella luschani. Gene, 2003, 317, 17-27.	2.2	30
89	The genome of the venomous snail Lautoconus ventricosus sheds light on the origin of conotoxin diversity. GigaScience, 2021, 10, .	6.4	29
90	Conotoxin Diversity in Chelyconus ermineus (Born, 1778) and the Convergent Origin of Piscivory in the Atlantic and Indo-Pacific Cones. Genome Biology and Evolution, 2018, 10, 2643-2662.	2.5	28

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91	Experimental Design in Caecilian Systematics: Phylogenetic Information of Mitochondrial Genomes and Nuclear rag1. Systematic Biology, 2009, 58, 425-438.	5.6	27
92	The evolution of the mitochondrial genetic code in arthropods revisited. Mitochondrial DNA, 2012, 23, 84-91.	0.6	27
93	Phylogenetic relationships of cone snails endemic to Cabo Verde based on mitochondrial genomes. BMC Evolutionary Biology, 2017, 17, 231.	3.2	26
94	Cryptic lineage divergence in marine environments: genetic differentiation at multiple spatial and temporal scales in the widespread intertidal goby GobiosomaÂbosc. Ecology and Evolution, 2017, 7, 5514-5523.	1.9	25
95	Denser mitogenomic sampling improves resolution of the phylogeny of the superfamily Trochoidea (Gastropoda: Vetigastropoda). Journal of Molluscan Studies, 2017, 83, 111-118.	1.2	24
96	Rapid and sensitive detection of the bovine viral diarrhea virus genome in semen. Journal of Virological Methods, 1995, 55, 209-218.	2.1	23
97	Ancient origin of endemic Iberian earth-boring dung beetles (Geotrupidae). Molecular Phylogenetics and Evolution, 2011, 59, 578-586.	2.7	23
98	The mitochondrial genome of Ifremeria nautilei and the phylogenetic position of the enigmatic deep-sea Abyssochrysoidea (Mollusca: Gastropoda). Gene, 2014, 547, 257-266.	2.2	23
99	Phylogenetic relationships of Mediterranean and North-East Atlantic Cantharidinae and notes on Stomatellinae (Vetigastropoda: Trochidae). Molecular Phylogenetics and Evolution, 2017, 107, 64-79.	2.7	23
100	Conotoxin Diversity in the Venom Gland Transcriptome of the Magicianâ€™s Cone, Pionoconus magus. Marine Drugs, 2019, 17, 553.	4.6	22
101	Evolutionarily Distinct Residues in the Uncoupling Protein UCP1 Are Essential for Its Characteristic Basal Proton Conductance. Journal of Molecular Biology, 2006, 359, 1010-1022.	4.2	21
102	Conidae phylogenomics and evolution. Zoologica Scripta, 2019, 48, 194-214.	1.7	21
103	The complete mitochondrial genome of Scutopus ventrolineatus (Mollusca: Chaetodermomorpha) supports the Aculifera hypothesis. BMC Evolutionary Biology, 2014, 14, 197.	3.2	20
104	Phylogenetic relationships of the conoidean snails (Gastropoda: Caenogastropoda) based on mitochondrial genomes. Molecular Phylogenetics and Evolution, 2018, 127, 898-906.	2.7	20
105	Phylogenetic relationships of Iberian Aphodiini (Coleoptera: Scarabaeidae) based on morphological and molecular data. Molecular Phylogenetics and Evolution, 2004, 31, 1084-1100.	2.7	19
106	Novel polymorphic microsatellites for the red-legged partridge (Alectoris rufa) and cross-species amplification in Alectoris graeca. Molecular Ecology Notes, 2005, 5, 449-451.	1.7	19
107	Microsatellite markers for the endangered European mink (Mustela lutreola) and closely related mustelids. Molecular Ecology Notes, 2007, 7, 1185-1188.	1.7	17
108	Genetic diversity assessments in the century of genome science. Current Opinion in Environmental Sustainability, 2010, 2, 43-49.	6.3	16

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109	Patterns of genetic variation in the endangered European mink (Mustela lutreola L., 1761). BMC Evolutionary Biology, 2015, 15, 141.	3.2	16
110	Mitogenomic phylogeny of cone snails endemic to Senegal. Molecular Phylogenetics and Evolution, 2017, 112, 79-87.	2.7	15
111	Experimental Design in Phylogenetics: Testing Predictions from Expected Information. Systematic Biology, 2012, 61, 661-674.	5.6	14
112	Island survivors: population genetic structure and demography of the critically endangered giant lizard of La Gomera, Gallotia bravoana. BMC Genetics, 2014, 15, 121.	2.7	14
113	Comparative transcriptomics of the venoms of continental and insular radiations of West African cones. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200794.	2.6	14
114	RAPID SPECIATION AND ECOLOGICAL DIVERGENCE IN THE AMERICAN SEVEN-SPINED GOBIES (GOBIIDAE,) Tj ETQq0 0 0 rgBT /Overlock Organic Evolution, 2003, 57, 1584.	2.3	12
115	A new species of sand racer, Psammodromus (Squamata: Lacertidae), from the Western Iberian Peninsula. Zootaxa, 2012, 3205, 41.	0.5	12
116	PRIMER NOTE: Isolation and characterization of polymorphic microsatellites for the sardine Sardina pilchardus (Clupeiformes: Clupeidae). Molecular Ecology Notes, 2006, 7, 519-921.	1.7	10
117	Actinobacteria Cyclophilins: Phylogenetic Relationships and Description of New Class- and Order-Specific Paralogues. Journal of Molecular Evolution, 2006, 63, 719-732.	1.8	9
118	Analysis of the transcription products of the rainbow trout (Oncorynchus mykiss) liver mitochondrial genome: detection of novel mitochondrial transcripts. Current Genetics, 1995, 28, 67-70.	1.7	8
119	Polymorphic microsatellite markers for the critically endangered Balearic shearwater, Puffinus mauretanicus. Molecular Ecology Resources, 2009, 9, 1044-1046.	4.8	8
120	A Combined Transcriptomics and Proteomics Approach Reveals the Differences in the Predatory and Defensive Venoms of the Molluscivorous Cone Snail Cylinder ammiralis (Caenogastropoda: Conidae). Toxins, 2021, 13, 642.	3.4	8
121	Mitogenomic phylogeny of mud snails of the mostly Atlantic/Mediterranean genus Tritia (Gastropoda: Nassariidae). Zoologica Scripta, 2021, 50, 571-591.	1.7	7
122	Genetic Code Prediction for Metazoan Mitochondria with GenDecoder. Methods in Molecular Biology, 2009, 537, 233-242.	0.9	6
123	Comparative Venomics of the Cryptic Cone Snail Species Virroconus ebraeus and Virroconus judaeus. Marine Drugs, 2022, 20, 149.	4.6	5
124	Sequencing and Phylogenomic Analysis of Whole Mitochondrial Genomes of Animals. Methods in Molecular Biology, 2008, 422, 185-200.	0.9	4
125	Microsatellite DNA Capture from Enriched Libraries. Methods in Molecular Biology, 2013, 1006, 67-87.	0.9	4
126	EVOLUTION OF MOUTHBROODING AND LIFE-HISTORY CORRELATES IN THE FIGHTING FISH GENUS BETTA. Evolution; International Journal of Organic Evolution, 2004, 58, 799.	2.3	3

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127	Automatic Prediction of the Genetic Code. Lecture Notes in Computer Science, 2009, , 1125-1129.	1.3	1
128	Quest for the Best Evolutionary Model. Journal of Molecular Evolution, 2021, 89, 146-150.	1.8	1
129	Accurate Selection of Models of Protein Evolution. Advances in Intelligent and Soft Computing, 2010, , 117-121.	0.2	0