Francisco J Ayala

List of Publications by Year
in descending order

100 papers	2,897 citations	185998 28 h-index	189595 50 g-index
117 all docs	117 docs citations	117 times ranked	3673 citing authors

#	Article	IF	Citations
1	Chromosome speciation: Humans, Drosophila, and mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6535-6542.	3.3	322
2	Genetic Polymorphism and Natural Selection in the Malaria Parasite Plasmodium falciparum. Genetics, 1998, 149, 189-202.	1.2	221
3	Reproductive clonality of pathogens: A perspective on pathogenic viruses, bacteria, fungi, and parasitic protozoa. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3305-13.	3.3	177
4	Molecular clock mirages. BioEssays, 1999, 21, 71-75.	1.2	118
5	The extension of biology through culture. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7775-7781.	3.3	100
6	Malaria continues to select for sickle cell trait in Central Africa. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7051-7054.	3.3	88
7	How clonal are Trypanosoma and Leishmania?. Trends in Parasitology, 2013, 29, 264-269.	1.5	81
8	Darwin and the scientific method. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10033-10039.	3.3	72
9	Guanylate-binding protein 1 (GBP1) contributes to the immunity of human mesenchymal stromal cells against Toxoplasma gondii. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1365-1370.	3.3	70
10	The difference of being human: Morality. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9015-9022.	3.3	66
11	In the light of evolution X: Comparative phylogeography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7957-7961.	3.3	65
12	DENSITYâ€DEPENDENT EVOLUTION OF LIFEâ€HISTORY TRAITS IN DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 1989, 43, 382-392.	1.1	63
13	The effect of superoxide dismutase alleles on aging inDrosophila. Genetica, 1993, 91, 143-149.	0.5	61
14	Ape malaria transmission and potential for ape-to-human transfers in Africa. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5329-5334.	3.3	59
15	Extensive flagellar remodeling during the complex life cycle of Paratrypanosoma , an early-branching trypanosomatid. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11757-11762.	3.3	57
16	On the Evolution of Dopa decarboxylase (Ddc) and Drosophila Systematics. Journal of Molecular Evolution, 1999, 48, 445-462.	0.8	56
17	Two distinct cytokinesis pathways drive trypanosome cell division initiation from opposite cell ends. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3287-3292.	3.3	52
18	Switch in Codon Bias and Increased Rates of Amino Acid Substitution in the Drosophila saltans Species Group. Genetics, 1999, 153, 339-350.	1.2	50

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19	Nitric oxide blocks the development of the human parasiteSchistosoma japonicum. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10214-10219.	3.3	44
20	FOUNDERâ€FLUSH SPECIATION IN DROSOPHILA PSEUDOOBSCURA: A LARGEâ€SCALE EXPERIMENT. Evolution; International Journal of Organic Evolution, 1993, 47, 432-444.	1.1	43
21	The population genetics of Trypanosoma cruzi revisited in the light of the predominant clonal evolution model. Acta Tropica, 2015, 151, 156-165.	0.9	42
22	Cancer in the parasitic protozoans Trypanosoma brucei and Toxoplasma gondii. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8835-8842.	3.3	42
23	Fluctuating Mutation Bias and the Evolution of Base Composition in Drosophila. Journal of Molecular Evolution, 2000, 50, 1-10.	0.8	40
24	Darwin at 200. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2475-2476.	3.3	39
25	Cryptosporidium, Giardia, Cryptococcus, Pneumocystis Genetic Variability: Cryptic Biological Species or Clonal Near-Clades?. PLoS Pathogens, 2014, 10, e1003908.	2.1	38
26	Both endo-siRNAs and tRNA-derived small RNAs are involved in the differentiation of primitive eukaryote Giardia lamblia. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14159-14164.	3.3	37
27	Encephalitis is mediated by ROP18 of Toxoplasma gondii , a severe pathogen in AIDS patients. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5344-E5352.	3.3	37
28	Tracking zoonotic pathogens using blood-sucking flies as 'flying syringes'. ELife, 2017, 6, .	2.8	35
29	Molecular Evolution of Two Linked Genes, Est-6 and Sod, in Drosophila melanogaster. Genetics, 1999, 153, 1357-1369.	1.2	31
30	Cloning humans? Biological, ethical, and social considerations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8879-8886.	3.3	25
31	Mitochondrial DNA evolution in theDrosophila nasuta subgroup of species. Journal of Molecular Evolution, 1989, 28, 337-348.	0.8	24
32	The Recent Origin of Allelic Variation in Antigenic Determinants of Plasmodium falciparum. Genetics, 1998, 150, 515-517.	1.2	24
33	New Insights into Clonality and Panmixia in Plasmodium and Toxoplasma. Advances in Parasitology, 2014, 84, 253-268.	1.4	22
34	Clonal defence. Nature, 1991, 350, 385-386.	13.7	21
35	ON THE ORIGIN OF INCIPIENT REPRODUCTIVE ISOLATION: THE CASE OFDROSOPHILA ALBOMICANSANDD. NASUTA. Evolution; International Journal of Organic Evolution, 1989, 43, 1610-1624.	1.1	20
36	How clonal are Neisseria species? The epidemic clonality model revisited. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8909-8913.	3.3	19

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37	Science in Latin America. Science, 1995, 267, 826-827.	6.0	18
38	Highly rearranged mitochondrial genome in Nycteria parasites (Haemosporidia) from bats. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9834-9839.	3.3	17
39	Genetic polymorphism at two linked loci, Sod and Est-6 , in Drosophila melanogaster. Gene, 2002, 300, 19-29.	1.0	16
40	Elixir of life:In vino veritas: Fig. 1.. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3457-3458.	3.3	16
41	Chromosomal inversions promote genomic islands of concerted evolution of Hsp70 genes in the Drosophila subobscura species subgroup. Molecular Ecology, 2019, 28, 1316-1332.	2.0	16
42	Infection by Toxoplasma gondii , a severe parasite in neonates and AIDS patients, causes impaired anion secretion in airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4435-4440.	3.3	15
43	Wild chimpanzees are infected by Trypanosoma brucei. International Journal for Parasitology: Parasites and Wildlife, 2015, 4, 277-282.	0.6	15
44	Medical Informatics and the â€œThree Long, One Shortâ€•Problem of Large Urban Hospitals in China. JAMA - Journal of the American Medical Association, 2016, 316, 269.	3.8	15
45	Complete mitochondrial genome of the stone char Salvelinus kuznetzovi (Salmoniformes,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.2	14
46	INTERSPECIFIC LABORATORY COMPETITION OF THE RECENTLY SYMPATRIC SPECIESDROSOPHILA SUBOBSCURAANDDROSOPHILA PSEUDOOBSCURA. Evolution; International Journal of Organic Evolution, 1998, 52, 269-274.	1.1	12
47	Introduction and Institutionalization of Genetics in Mexico Ana Barahona, Susana Pinar and Francisco J. Ayala. Journal of the History of Biology, 2005, 38, 273-299.	0.2	12
48	Complete Mitochondrial Genomes of the Cherskiiâ€™s Sculpin Cottus czerskii and Siberian Taimen Hucho taimen Reveal GenBank Entry Errors: Incorrect Species Identification and Recombinant Mitochondrial Genome. Evolutionary Bioinformatics, 2017, 13, 117693431772678.	0.6	12
49	Genetic Diversity and Linkage Disequilibrium in Drosophila melanogaster With Different Rates of Development. Genetics, 1987, 117, 513-520.	1.2	11
50	Complete mitochondrial genomes of the Northern (Salvelinus malma) and Southern (Salvelinus curilus) Dolly Varden chars (Salmoniformes, Salmonidae). Mitochondrial DNA, 2016, 27, 1016-1017.	0.6	10
51	Disparate Evolution of Paralogous Introns in the Xdh Gene of Drosophila. Journal of Molecular Evolution, 2000, 50, 123-130.	0.8	8
52	Xanthine Dehydrogenase (XDH): Episodic Evolution of a ``Neutral'' Protein. Journal of Molecular Evolution, 2001, 53, 485-495.	0.8	8
53	Reproductive clonality in protozoan pathogensâ€”truth or artifact? A comment on RamÃ¥rez and Llewellyn. Molecular Ecology, 2015, 24, 5778-5781.	2.0	8
54	In the light of evolution IX: Clonal reproduction: Alternatives to sex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8824-8826.	3.3	8

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55	Complete mitochondrial genome of the Amur sculpin Cottus szanaga (Cottoidei: Cottidae). Mitochondrial DNA Part B: Resources, 2016, 1, 737-738.	0.2	8
56	Complete mitochondrial genome of the white char Salvelinus albus (Salmoniformes,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	0.7	8
57	Fitness of wild-caught Drosophila melanogaster females: allozyme variants of GPDH, ADH, PGM, and EST. , 1999, 105, 7-18.		7
58	Brain keys in the appreciation of beauty: a tale of two worlds. Rendiconti Lincei, 2014, 25, 277-284.	1.0	7
59	Relevant units of analysis for applied and basic research dealing with neglected transmissible diseases: The predominant clonal evolution model of pathogenic microorganisms. PLoS Neglected Tropical Diseases, 2017, 11, e0005293.	1.3	7
60	PRESUMPTIVE RAPID SPECIATION AFTER A FOUNDER EVENT IN A LABORATORY POPULATION OFNEREIS: ALLOZYME ELECTROPHORETIC EVIDENCE DOES NOT SUPPORT THE HYPOTHESIS. Evolution; International Journal of Organic Evolution, 1996, 50, 457-461.	1.1	6
61	Hybridization in Trypanosoma congolense does not challenge the predominant clonal evolution model. A comment on TihonÂetÂal., 2017, Mol. Ecol.. Molecular Ecology, 2018, 27, 3421-3424.	2.0	6
62	Fertility interactions in Drosophila: Theoretical model and experimental tests. Journal of Evolutionary Biology, 1989, 2, 1-12.	0.8	5
63	Complete mitochondrial genomes of the anadromous and resident forms of the lampreyLethenteron camtschaticum. Mitochondrial DNA, 2016, 27, 1-2.	0.6	5
64	Which brain networks related to art perception are we talking about?. Physics of Life Reviews, 2017, 21, 133-134.	1.5	5
65	A misleading description of the predominant clonal evolution model in Trypanosoma cruzi. Acta Tropica, 2018, 187, 13-14.	0.9	5
66	Nucleotide Variation in the tinman and bagpipe Homeobox Genes of Drosophila melanogaster. Genetics, 2004, 166, 1845-1856.	1.2	5
67	A Truncated P Element is Inserted in the Transcribed Region of the Cu, Zn Sod Gene of an Sod â€œNullâ€• Strain ofDrosophila Melanogaster. Free Radical Research Communications, 1991, 12, 429-435.	1.8	4
68	Theodosius Dobzhansky: A man for all seasons. Resonance, 2000, 5, 48-60.	0.2	4
69	Complete mitochondrial genome of Siberian taimen,Hucho taimennot introgressed by the lenok subspecies,Brachymystax lenokandB. lenok tsinlingensis. Mitochondrial DNA, 2016, 27, 815-816.	0.6	4
70	Complete mitochondrial genome of blunt-snouted lenokBrachymystax tumensis(Salmoniformes,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	4
71	DNA polymorphism and selection at the bindin locus in three Strongylocentrotus sp. (Echinoidea). BMC Genetics, 2016, 17, 66.	2.7	4
72	Evolutionary Genetics ofPlasmodium falciparum, the Agent of Malignant Malaria. , 2004, , 39-74.		3

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73	Complete mitochondrial genome of the Kamchatka grayling Thymallus mertensii (Salmoniformes, Salmonidae). Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2017, 28, 135-136.	0.7	3
74	Complete mitochondrial genome of the Volkâ€™s sculpin Cottus volki (Cottoidei: Cottidae). Mitochondrial DNA Part B: Resources, 2017, 2, 185-186.	0.2	3
75	Complete mitochondrial genome of the Sakhalin sculpin Cottus amblystomopsis (Cottoidei:) Tj ETQq1 1 0.784314 rgBT /Overl	0.2	3
76	Complete mitochondrial genome of the European smelt Osmerus eperlanus (Osmeriformes,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	3
77	Debating Darwin. Biology and Philosophy, 2000, 15, 559-573.	0.7	2
78	Darwin's explanation of design: From natural theology to natural selection. Infection, Genetics and Evolution, 2010, 10, 839-842.	1.0	2
79	Complete mitochondrial genome of Sakhalin taimenParahucho perryi(Salmoniformes, Salmonidae) without two frame-disrupting indels in theND4gene. Mitochondrial DNA, 2016, 27, 1020-1021.	0.6	2
80	Complete mitochondrial genome of the yellow-spotted grayling Thymallus flavomaculatus (Salmoniformes, Salmonidae). Mitochondrial DNA Part B: Resources, 2016, 1, 289-290.	0.2	2
81	Complete mitochondrial genome of the Arctic rainbow smelt Osmerus dentex (Osmeriformes,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.2	2
82	Complete mitochondrial genome of the surf smelt Hypomesus japonicus (Osmeriformes,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.2	2
83	Complete mitochondrial genome of the great sculpin Myoxocephalus polyacanthocephalus (Cottoidei:) Tj ETQq1 1 0.784314 rgBT /O	0.2	2
84	Complete mitochondrial genome of the Belligerent sculpin Megalocottus platycephalus (Cottoidei:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	2
85	Complete mitochondrial genome of the plain sculpin Myoxocephalus jaok (Cottoidei: Cottidae). Mitochondrial DNA Part B: Resources, 2020, 5, 1295-1296.	0.2	2
86	Toward a New Philosophy of Biology. Observations of an Evolutions. Ernst Mayr. Belknap (Harvard) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	6.0	1
87	Fertility and viability at the Sod locus in Drosophila melanogaster: non-additive and asymmetric selection. Genetical Research, 1991, 57, 267-272.	0.3	1
88	Evolutionary History of the Malaria Parasites. , 0, , 175-187.		1
89	Complete mitochondrial genome of the phenotypically-diverse sea urchin Strongylocentrotus intermedius (Strongylocentrotidae, Echinoidea). Mitochondrial DNA Part B: Resources, 2017, 2, 613-614.	0.2	1
90	Â¿Clonar humanos? LÃmites de la eugenesia. Arbor, 2019, 195, 502.	0.1	1

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91	Las herramientas nos hicieron humanos. El papel de la tecnologÃa en la evoluciÃ³n biolÃ³gica y social del gÃ©nero Homo. Sociologia Y Tecnociencia, 2018, 8, 1-25.	0.1	1
92	Evolution vs. creationism. History and Philosophy of the Life Sciences, 2006, 28, 71-82.	0.6	1
93	2002 Neodarwinism and infectious diseases transmission: An e-debate. Infection, Genetics and Evolution, 2002, 1, 249-253.	1.0	0
94	Where is Darwin 200 years later?. Journal of Genetics, 2008, 87, 321-325.	0.4	0
95	Walter Monroe Fitch (May 21, 1929 - March 10, 2011): A memorial tribute. Infection, Genetics and Evolution, 2012, 12, 1587-1589.	1.0	0
96	How clonal is Trypanosoma congolense? A necessary clarification of the predominant clonal evolution model. Acta Tropica, 2019, 190, 28-29.	0.9	0
97	The effect of superoxide dismutase alleles on aging in Drosophila. , 2004, , 198-204.		0
98	Molecular Evolution, Natural Selection, and Imperfect Design. FASEB Journal, 2006, 20, A37.	0.2	0
99	Religion and Science. Science, 1999, 284, 1773-1773.	6.0	0
100	The Vatican and evolution. History and Philosophy of the Life Sciences, 2007, 29, 225-9.	0.6	0