

Francisco J Ayala

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

2,104
citations

25
h-index

43
g-index

117
ext. papers

2,521
ext. citations

6.5
avg, IF

5.28
L-index

#	Paper	IF	Citations
103	Chromosome speciation: humans, <i>Drosophila</i> , and mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102 Suppl 1, 6535-42	11.5	230
102	Genetic polymorphism and natural selection in the malaria parasite <i>Plasmodium falciparum</i> . <i>Genetics</i> , 1998 , 149, 189-202	4	186
101	Reproductive clonality of pathogens: a perspective on pathogenic viruses, bacteria, fungi, and parasitic protozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E3305-13	11.5	143
100	Molecular clock mirages. <i>BioEssays</i> , 1999 , 21, 71-5	4.1	88
99	The extension of biology through culture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7775-7781	11.5	72
98	How clonal are <i>Trypanosoma</i> and <i>Leishmania</i> ?. <i>Trends in Parasitology</i> , 2013 , 29, 264-9	6.4	67
97	Malaria continues to select for sickle cell trait in Central Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7051-4	11.5	58
96	Darwin and the scientific method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106 Suppl 1, 10033-9	11.5	54
95	The effect of superoxide dismutase alleles on aging in <i>Drosophila</i> . <i>Genetica</i> , 1993 , 91, 143-9	1.5	54
94	DENSITY-DEPENDENT EVOLUTION OF LIFE-HISTORY TRAITS IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1989 , 43, 382-392	3.8	53
93	On the evolution of Dopa decarboxylase (<i>Ddc</i>) and <i>Drosophila</i> systematics. <i>Journal of Molecular Evolution</i> , 1999 , 48, 445-62	3.1	48
92	Colloquium paper: the difference of being human: morality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107 Suppl 2, 9015-22	11.5	46
91	Ape malaria transmission and potential for ape-to-human transfers in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5329-34	11.5	45
90	Guanylate-binding protein 1 (GBP1) contributes to the immunity of human mesenchymal stromal cells against <i>Toxoplasma gondii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1365-1370	11.5	40
89	In the light of evolution X: Comparative phylogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7957-61	11.5	38
88	FOUNDER-FLUSH SPECIATION IN <i>DROSOPHILA PSEUDOOBSCURA</i> : A LARGE-SCALE EXPERIMENT. <i>Evolution; International Journal of Organic Evolution</i> , 1993 , 47, 432-444	3.8	38
87	The population genetics of <i>Trypanosoma cruzi</i> revisited in the light of the predominant clonal evolution model. <i>Acta Tropica</i> , 2015 , 151, 156-65	3.2	37

86	Two distinct cytokinesis pathways drive trypanosome cell division initiation from opposite cell ends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3287-92	11.5	37
85	Switch in codon bias and increased rates of amino acid substitution in the <i>Drosophila saltans</i> species group. <i>Genetics</i> , 1999 , 153, 339-50	4	35
84	Cryptosporidium, Giardia, Cryptococcus, Pneumocystis genetic variability: cryptic biological species or clonal near-clades?. <i>PLoS Pathogens</i> , 2014 , 10, e1003908	7.6	33
83	Both endo-siRNAs and tRNA-derived small RNAs are involved in the differentiation of primitive eukaryote <i>Giardia lamblia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14159-64	11.5	31
82	Fluctuating mutation bias and the evolution of base composition in <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , 2000 , 50, 1-10	3.1	31
81	Extensive flagellar remodeling during the complex life cycle of , an early-branching trypanosomatid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11757-11762	11.5	29
80	Nitric oxide blocks the development of the human parasite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10214-10219	11.5	25
79	Molecular evolution of two linked genes, Est-6 and Sod, in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999 , 153, 1357-69	4	23
78	Cancer in the parasitic protozoans <i>Trypanosoma brucei</i> and <i>Toxoplasma gondii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8835-42	11.5	22
77	Tracking zoonotic pathogens using blood-sucking flies as flying syringes <i>ELife</i> , 2017 , 6,	8.9	22
76	Mitochondrial DNA evolution in the <i>Drosophila nasuta</i> subgroup of species. <i>Journal of Molecular Evolution</i> , 1989 , 28, 337-48	3.1	21
75	The recent origin of allelic variation in antigenic determinants of <i>Plasmodium falciparum</i> . <i>Genetics</i> , 1998 , 150, 515-7	4	19
74	Encephalitis is mediated by ROP18 of , a severe pathogen in AIDS patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5344-E5352	11.5	18
73	Cloning humans? Biological, ethical, and social considerations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8879-86	11.5	17
72	Evolution on a Restless Planet: Were Environmental Variability and Environmental Change Major Drivers of Human Evolution? 223-242		17
71	New insights into clonality and panmixia in <i>Plasmodium</i> and <i>toxoplasma</i> . <i>Advances in Parasitology</i> , 2014 , 84, 253-68	3.2	16
70	Elixir of life: In vino veritas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3457-8	11.5	16
69	How clonal are <i>Neisseria</i> species? The epidemic clonality model revisited. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8909-13	11.5	15

68	Genetic polymorphism at two linked loci, Sod and Est-6, in <i>Drosophila melanogaster</i> . <i>Gene</i> , 2002 , 300, 19-29	3.8	15
67	ON THE ORIGIN OF INCIPIENT REPRODUCTIVE ISOLATION: THE CASE OF DROSOPHILA ALBOMICANS AND D. NASUTA. <i>Evolution; International Journal of Organic Evolution</i> , 1989 , 43, 1610-1624	3.8	15
66	Science in latin america. <i>Science</i> , 1995 , 267, 826-7	33.3	13
65	Complete mitochondrial genome of the stone char (Salmoniformes, Salmonidae). <i>Mitochondrial DNA Part B: Resources</i> , 2016 , 1, 287-288	0.5	13
64	Clonal defence. <i>Nature</i> , 1991 , 350, 385-6	50.4	12
63	Wild chimpanzees are infected by <i>Trypanosoma brucei</i> . <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2015 , 4, 277-82	2.6	11
62	Highly rearranged mitochondrial genome in <i>Nycteria</i> parasites (Haemosporidia) from bats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9834-9	11.5	11
61	Medical Informatics and the "Three Long, One Short" Problem of Large Urban Hospitals in China. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 316, 269-70	27.4	11
60	Evolutionary Developmental Biology		10
59	INTERSPECIFIC LABORATORY COMPETITION OF THE RECENTLY SYMPATRIC SPECIES DROSOPHILA SUBOBSCURA AND DROSOPHILA PSEUDOBSCURA. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 269-274	3.8	10
58	Infection by <i>Toxoplasma gondii</i> , a severe parasite in neonates and AIDS patients, causes impaired anion secretion in airway epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4435-40	11.5	9
57	Complete mitochondrial genome of the white char <i>Salvelinus albus</i> (Salmoniformes, Salmonidae). <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016 , 27, 3753-4	1.3	8
56	Complete mitochondrial genomes of the Northern (<i>Salvelinus malma</i>) and Southern (<i>Salvelinus curilus</i>) Dolly Varden chars (Salmoniformes, Salmonidae). <i>Mitochondrial DNA</i> , 2016 , 27, 1016-7		8
55	Complete Mitochondrial Genomes of the Cherskii Sculpin and Siberian Taimen Reveal GenBank Entry Errors: Incorrect Species Identification and Recombinant Mitochondrial Genome. <i>Evolutionary Bioinformatics</i> , 2017 , 13, 1176934317726783	1.9	8
54	Introduction and Institutionalization of Genetics in Mexico Ana Barahona, Susana Pinar and Francisco J. Ayala. <i>Journal of the History of Biology</i> , 2005 , 38, 273-299	0.8	8
53	Chromosomal inversions promote genomic islands of concerted evolution of Hsp70 genes in the <i>Drosophila subobscura</i> species subgroup. <i>Molecular Ecology</i> , 2019 , 28, 1316-1332	5.7	8
52	In the light of evolution IX: Clonal reproduction: Alternatives to sex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8824-6	11.5	7
51	Brain keys in the appreciation of beauty: a tale of two worlds. <i>Rendiconti Lincei</i> , 2014 , 25, 277-284	1.7	7

50	Reproductive clonality in protozoan pathogens--truth or artifact? A comment on Ramirez and Llewellyn. <i>Molecular Ecology</i> , 2015 , 24, 5778-81	5.7	7
49	Relevant units of analysis for applied and basic research dealing with neglected transmissible diseases: The predominant clonal evolution model of pathogenic microorganisms. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005293	4.8	7
48	Human Biological Evolution 117-222		6
47	Xanthine dehydrogenase (XDH): episodic evolution of a "neutral" protein. <i>Journal of Molecular Evolution</i> , 2001 , 53, 485-95	3.1	6
46	Complete mitochondrial genome of the Amur sculpin (Cottoidei: Cottidae). <i>Mitochondrial DNA Part B: Resources</i> , 2016 , 1, 737-738	0.5	6
45	Complete mitochondrial genomes of the anadromous and resident forms of the lamprey Lethenteron camtschaticum. <i>Mitochondrial DNA</i> , 2016 , 27, 1730-1		5
44	Darwin at 200. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2475-6	11.5	5
43	Disparate evolution of paralogous introns in the Xdh gene of Drosophila. <i>Journal of Molecular Evolution</i> , 2000 , 50, 123-30	3.1	5
42	Fitness of wild-caught Drosophila melanogaster females: allozyme variants of GPDH, ADH, PGM, and EST. <i>Genetica</i> , 1999 , 105, 7-18	1.5	5
41	Fertility interactions in Drosophila: Theoretical model and experimental tests. <i>Journal of Evolutionary Biology</i> , 1989 , 2, 1-12	2.3	5
40	Genetic Diversity and Linkage Disequilibrium in Drosophila melanogaster with Different Rates of Development. <i>Genetics</i> , 1987 , 117, 513-20	4	5
39	Complete mitochondrial genome of Siberian taimen, Hucho taimen not introgressed by the lenok subspecies, Brachymystax lenok and B. lenok tsinlingensis. <i>Mitochondrial DNA</i> , 2016 , 27, 815-6		4
38	Theodosius Dobzhansky: A man for all seasons 2000 , 5, 48-60		4
37	PRESUMPTIVE RAPID SPECIATION AFTER A FOUNDER EVENT IN A LABORATORY POPULATION OF NEREIS: ALLOZYME ELECTROPHORETIC EVIDENCE DOES NOT SUPPORT THE HYPOTHESIS. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 457-461	3.8	4
36	Nucleotide Variation in the tinman and bagpipe Homeobox Genes of Drosophila melanogaster. <i>Genetics</i> , 2004 , 166, 1845-1856	4	4
35	Hybridization in Trypanosoma congolense does not challenge the predominant clonal evolution model. A comment on Tihon'et' al., 2017, Mol. Ecol. <i>Molecular Ecology</i> , 2018 , 27, 3421-3424	5.7	4
34	Which brain networks related to art perception are we talking about?: Comment on "Move me, astonish me/delight my eyes and brain: The Vienna Integrated Model of top-down and bottom-up processes in Art Perception (VIMAP) and corresponding affective, evaluative, and neurophysiological correlates" by Matthew Pelowski et al. <i>Physics of Life Reviews</i> , 2017 , 21, 133-134	2.1	3
33	Complete mitochondrial genome of blunt-snouted lenok Brachymystax tumensis (Salmoniformes, Salmonidae). <i>Mitochondrial DNA</i> , 2016 , 27, 882-3		3

32	A misleading description of the predominant clonal evolution model in <i>Trypanosoma cruzi</i> . <i>Acta Tropica</i> , 2018 , 187, 13-14	3.2	3
31	A truncated P element is inserted in the transcribed region of the Cu,Zn SOD gene of an SOD "null" strain of <i>Drosophila melanogaster</i> . <i>Free Radical Research Communications</i> , 1991 , 12-13 Pt 1, 429-35		3
30	The Evolution Controversies: An Overview 27-46		3
29	Complete mitochondrial genome of the European smelt (<i>Osmeriformes, Osmeridae</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2018 , 3, 744-745	0.5	3
28	Complete mitochondrial genome of the great sculpin (<i>Cottoidei: Cottidae</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2019 , 4, 2361-2362	0.5	2
27	Complete mitochondrial genome of Sakhalin taimen <i>Parahucho perryi</i> (<i>Salmoniformes, Salmonidae</i>) without two frame-disrupting indels in the ND4 gene. <i>Mitochondrial DNA</i> , 2016 , 27, 1020-1		2
26	Complete mitochondrial genome of the Volga sculpin (<i>Cottoidei: Cottidae</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2017 , 2, 185-186	0.5	2
25	Complete mitochondrial genome of the Sakhalin sculpin (<i>Cottoidei: Cottidae</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2017 , 2, 244-245	0.5	2
24	Darwin's explanation of design: from natural theology to natural selection. <i>Infection, Genetics and Evolution</i> , 2010 , 10, 840-3	4.5	2
23	Evolutionary Genetics of <i>Plasmodium falciparum</i> , the Agent of Malignant Malaria 2004 , 39-74		2
22	Debating Darwin. <i>Biology and Philosophy</i> , 2000 , 15, 559-573	1.7	2
21	Complete mitochondrial genome of the Kamchatka grayling <i>Thymallus mertensii</i> (<i>Salmoniformes, Salmonidae</i>). <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2017 , 28, 135-136	1.3	1
20	Complete mitochondrial genome of the Belligerent sculpin <i>Megalocottus platycephalus</i> (<i>Cottoidei: Cottidae</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2019 , 4, 2980-2981	0.5	1
19	Complete mitochondrial genome of the phenotypically-diverse sea urchin (<i>Strongylocentrotidae, Echinoidea</i>). <i>Mitochondrial DNA Part B: Resources</i> , 2017 , 2, 613-614	0.5	1
18	Evolutionary History of the Malaria Parasites 175-187		1
17	Fertility and viability at the Sod locus in <i>Drosophila melanogaster</i> : non-additive and asymmetric selection. <i>Genetical Research</i> , 1991 , 57, 267-72	1.1	1
16	Toward a New Philosophy of Biology. Observations of an Evolution. Ernst Mayr. Belknap (Harvard University Press), Cambridge, MA, 1988. xii, 564 pp. \$35. <i>Science</i> , 1988 , 240, 1801-1801	33.3	1
15	DNA polymorphism and selection at the bindin locus in three <i>Strongylocentrotus</i> sp. (<i>Echinoidea</i>). <i>BMC Genetics</i> , 2016 , 17, 66	2.6	1

14	Complete mitochondrial genome of the Arctic rainbow smelt (Osmeriformes, Osmeridae). <i>Mitochondrial DNA Part B: Resources</i> , 2018 , 3, 879-880	0.5	1
13	Complete mitochondrial genome of the surf smelt (Osmeriformes, Osmeridae). <i>Mitochondrial DNA Part B: Resources</i> , 2018 , 3, 1071-1072	0.5	1
12	Evolution vs. creationism. <i>History and Philosophy of the Life Sciences</i> , 2006 , 28, 71-82	1	1
11	Complete mitochondrial genome of the yellow-spotted grayling (Salmoniformes, Salmonidae). <i>Mitochondrial DNA Part B: Resources</i> , 2016 , 1, 289-290	0.5	0
10	¿Clonar humanos? Límites de la eugenesia. <i>Arbor</i> , 2019 , 195, 502	0.2	
9	Walter Monroe Fitch (May 21, 1929 - March 10, 2011): a memorial tribute. <i>Infection, Genetics and Evolution</i> , 2012 , 12, 1587-9	4.5	
8	Where is Darwin 200 years later?. <i>Journal of Genetics</i> , 2008 , 87, 321-5	1.2	
7	The Theory of Biological Evolution: Historical and Philosophical Aspects 57-85		
6	2002 Neodarwinism and infectious diseases transmission: an e-debate. <i>Infection, Genetics and Evolution</i> , 2002 , 1, 249-53	4.5	
5	The effect of superoxide dismutase alleles on aging in <i>Drosophila</i> 2004 , 198-204		
4	Molecular Evolution, Natural Selection, and Imperfect Design. <i>FASEB Journal</i> , 2006 , 20, A37	0.9	
3	Religion and science. <i>Science</i> , 1999 , 284, 1773	33.3	
2	How clonal is <i>Trypanosoma congolense</i> ? A necessary clarification of the predominant clonal evolution model. <i>Acta Tropica</i> , 2019 , 190, 28-29	3.2	
1	The Vatican and evolution. <i>History and Philosophy of the Life Sciences</i> , 2007 , 29, 225-9	1	