Arturo Becerra

List of Publications by Year
in descending order

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48 papers	984 citations	471509 17 h-index	477307 29 g-index
51 all docs	51 docs citations	51 times ranked	1428 citing authors

#	Article	IF	Citations
1	Two short low complexity regions (LCRs) are hallmark sequences of the Delta SARS-CoV-2 variant spike protein. Scientific Reports, 2022, 12, 936.	3.3	1
2	Reconstructing the Last Common Ancestor: Epistemological and Empirical Challenges. Acta Biotheoretica, 2022, 70, 15.	1.5	0
3	Structural Analysis of Monomeric RNA-Dependent Polymerases Revisited. Journal of Molecular Evolution, 2022, 90, 283-295.	1.8	4
4	Ancient gene duplications in RNA viruses revealed by protein tertiary structure comparisons. Virus Evolution, 2021, 7, veab019.	4.9	6
5	The Semi-Enzymatic Origin of Metabolic Pathways: Inferring a Very Early Stage of the Evolution of Life. Journal of Molecular Evolution, 2021, 89, 183-188.	1.8	7
6	Structural analysis of viral ExoN domains reveals polyphyletic hijacking events. PLoS ONE, 2021, 16, e0246981.	2.5	6
7	The Role of Gene Duplication in the Divergence of Enzyme Function: A Comparative Approach. Frontiers in Genetics, 2021, 12, 641817.	2.3	8
8	Holocene life and microbiome profiling in ancient tropical Lake Chalco, Mexico. Scientific Reports, 2021, 11, 13848.	3.3	8
9	Repetitive DNA profile of the amphibian mitogenome. BMC Bioinformatics, 2020, 21, 197.	2.6	3
10	Sofosbuvir as a potential alternative to treat the SARS-CoV-2 epidemic. Scientific Reports, 2020, 10, 9294.	3.3	82
11	Alarmones as Vestiges of a Bygone RNA World. Journal of Molecular Evolution, 2019, 87, 37-51.	1.8	16
12	Structure, function and evolution of the hemerythrinâ€like domain superfamily. Protein Science, 2018, 27, 848-860.	7.6	32
13	On the Early Evolution of Catabolic Pathways: A Comparative Genomics Approach. I. The Cases of Glucose, Ribose, and the Nucleobases Catabolic Routes. Journal of Molecular Evolution, 2018, 86, 27-46.	1.8	9
14	Methanogenesis on Early Stages of Life: Ancient but Not Primordial. Origins of Life and Evolution of Biospheres, 2018, 48, 407-420.	1.9	16
15	Evolutionary convergence in the biosyntheses of the imidazole moieties of histidine and purines. PLoS ONE, 2018, 13, e0196349.	2.5	35
16	Molecular Analysis Confirms that FKRP-Related Disorders are Underdiagnosed in Mexican Patients with Neuromuscular Diseases. Neuropediatrics, 2017, 48, 442-450.	0.6	3
17	Can an Imidazole Be Formed from an Alanyl-Seryl-Glycine Tripeptide under Possible Prebiotic Conditions?. Origins of Life and Evolution of Biospheres, 2017, 47, 345-354.	1.9	12
18	Molecular Evolution of the Oxygen-Binding Hemerythrin Domain. PLoS ONE, 2016, 11, e0157904.	2.5	24

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19	DNA structure and architecture in the chromosome and plasmid of hyperthermophilic organisms, a theoretical approach. Boletin De La Sociedad Geologica Mexicana, 2016, 68, 165-172.	0.3	0
20	Viral Genome Size Distribution Does not Correlate with the Antiquity of the Host Lineages. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	35
21	Structural Analysis of Monomeric RNA-Dependent Polymerases: Evolutionary and Therapeutic Implications. PLoS ONE, 2015, 10, e0139001.	2.5	78
22	The universal ancestor: An unfinished reconstruction. Metode, 2015, .	0.1	0
23	A phylogenetic approach to the early evolution of autotrophy: the case of the reverse TCA and the reductive acetyl-CoA pathways. International Microbiology, 2014, 17, 91-7.	2.4	18
24	Low complexity regions (LCRs) contribute to the hypervariability of the HIV-1 gp120 protein. Journal of Theoretical Biology, 2013, 338, 80-86.	1.7	12
25	Norvaline and Norleucine May Have Been More Abundant Protein Components during Early Stages of Cell Evolution. Origins of Life and Evolution of Biospheres, 2013, 43, 363-375.	1.9	26
26	Cenancestor, the Last Universal Common Ancestor. Evolution: Education and Outreach, 2012, 5, 382-388.	0.8	4
27	Coenzymes, viruses and the RNA world. Biochimie, 2012, 94, 1467-1473.	2.6	6
28	Metalloproteins and the Pyrite-based Origin of Life: A Critical Assessment. Origins of Life and Evolution of Biospheres, 2011, 41, 347-356.	1.9	2
29	Bioinformatic analysis of P granule-related proteins: insights into germ granule evolution in nematodes. Development Genes and Evolution, 2010, 220, 41-52.	0.9	6
30	Composition-Based Methods to Identify Horizontal Gene Transfer. Methods in Molecular Biology, 2009, 532, 215-225.	0.9	12
31	Evolutionary theory: it's on the school syllabus in Mexico. Nature, 2008, 453, 719-719.	27.8	2
32	The origin of a novel gene through overprinting in Escherichia coli. BMC Evolutionary Biology, 2008, 8, 31.	3.2	50
33	Loss of DNA: A plausible molecular level explanation for crustacean neuropeptide gene evolution. Peptides, 2007, 28, 76-82.	2.4	11
34	The Very Early Stages of Biological Evolution and the Nature of the Last Common Ancestor of the Three Major Cell Domains. Annual Review of Ecology, Evolution, and Systematics, 2007, 38, 361-379.	8.3	76
35	Molecular Evolution of Peptide Methionine Sulfoxide Reductases (MsrA and MsrB): On the Early Development of a Mechanism That Protects Against Oxidative Damage. Journal of Molecular Evolution, 2007, 64, 15-32.	1.8	70
36	Protein Disulfide Oxidoreductases and the Evolution of Thermophily: Was the Last Common Ancestor a Heat-Loving Microbe?. Journal of Molecular Evolution, 2007, 65, 296-303.	1.8	15

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37	The Last Common Ancestor: What's in a name?. Origins of Life and Evolution of Biospheres, 2005, 35, 537-554.	1.9	69
38	Comparative analysis of methodologies for the detection of horizontally transferred genes: a reassessment of first-order Markov models. In Silico Biology, 2005, 5, 581-92.	0.9	17
39	Halometabolites and Cellular Dehalogenase Systems: An Evolutionary Perspective. International Review of Cytology, 2004, 234, 143-199.	6.2	29
40	Comparative Genomics and the Gene Complement of a Minimal Cell. Origins of Life and Evolution of Biospheres, 2004, 34, 243-256.	1.9	42
41	Cloning, expression and partial characterization of a gene encoding the S15a ribosomal protein of Taenia solium. Parasitology Research, 2004, 92, 414-420.	1.6	8
42	The Nature of the Last Common Ancestor. , 2004, , 34-47.		7
43	Hyperthermophily and the origin and earliest evolution of life. International Microbiology, 2003, 6, 87-94.	2.4	36
44	A Possible Molecular Ancestor for Mollusk APGWamide, Insect Adipokinetic Hormone, and Crustacean Red Pigment Concentrating Hormone. Journal of Molecular Evolution, 2002, 54, 703-714.	1.8	19
45	The role of gene duplication in the evolution of purine nucleotide salvage pathways. , 1998, 28, 539-553.		34
46	Polyphyletic gene losses can bias backtrack characterizations of the cenancestor. Journal of Molecular Evolution, 1997, 45, 115-117.	1.8	25
47	Extremophiles and the Origin of Life. , 0, , 1-10.		3
48	A Note on the Potential Clinical Use of Sofosbuvir to Treat COVID-19: The Importance of Protease Inhibitors. SSRN Electronic Journal, 0, , .	0.4	0