

# Arturo Becerra

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5782185/publications.pdf>

Version: 2024-02-01

48  
papers

984  
citations

471371

17  
h-index

477173

29  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sofosbuvir as a potential alternative to treat the SARS-CoV-2 epidemic. <i>Scientific Reports</i> , 2020, 10, 9294.	1.6	82
2	Structural Analysis of Monomeric RNA-Dependent Polymerases: Evolutionary and Therapeutic Implications. <i>PLoS ONE</i> , 2015, 10, e0139001.	1.1	78
3	The Very Early Stages of Biological Evolution and the Nature of the Last Common Ancestor of the Three Major Cell Domains. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 361-379.	3.8	76
4	Molecular Evolution of Peptide Methionine Sulfoxide Reductases (MsrA and MsrB): On the Early Development of a Mechanism That Protects Against Oxidative Damage. <i>Journal of Molecular Evolution</i> , 2007, 64, 15-32.	0.8	70
5	The Last Common Ancestor: What's in a name?. <i>Origins of Life and Evolution of Biospheres</i> , 2005, 35, 537-554.	0.8	69
6	The origin of a novel gene through overprinting in <i>Escherichia coli</i> . <i>BMC Evolutionary Biology</i> , 2008, 8, 31.	3.2	50
7	Comparative Genomics and the Gene Complement of a Minimal Cell. <i>Origins of Life and Evolution of Biospheres</i> , 2004, 34, 243-256.	0.8	42
8	Hyperthermophily and the origin and earliest evolution of life. <i>International Microbiology</i> , 2003, 6, 87-94.	1.1	36
9	Viral Genome Size Distribution Does not Correlate with the Antiquity of the Host Lineages. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	1.1	35
10	Evolutionary convergence in the biosyntheses of the imidazole moieties of histidine and purines. <i>PLoS ONE</i> , 2018, 13, e0196349.	1.1	35
11	The role of gene duplication in the evolution of purine nucleotide salvage pathways. , 1998, 28, 539-553.		34
12	Structure, function and evolution of the hemerythrin-like domain superfamily. <i>Protein Science</i> , 2018, 27, 848-860.	3.1	32
13	Halometabolites and Cellular Dehalogenase Systems: An Evolutionary Perspective. <i>International Review of Cytology</i> , 2004, 234, 143-199.	6.2	29
14	Norvaline and Norleucine May Have Been More Abundant Protein Components during Early Stages of Cell Evolution. <i>Origins of Life and Evolution of Biospheres</i> , 2013, 43, 363-375.	0.8	26
15	Polyphyletic gene losses can bias backtrack characterizations of the cenancestor. <i>Journal of Molecular Evolution</i> , 1997, 45, 115-117.	0.8	25
16	Molecular Evolution of the Oxygen-Binding Hemerythrin Domain. <i>PLoS ONE</i> , 2016, 11, e0157904.	1.1	24
17	A Possible Molecular Ancestor for Mollusk APCWamide, Insect Adipokinetic Hormone, and Crustacean Red Pigment Concentrating Hormone. <i>Journal of Molecular Evolution</i> , 2002, 54, 703-714.	0.8	19
18	A phylogenetic approach to the early evolution of autotrophy: the case of the reverse TCA and the reductive acetyl-CoA pathways. <i>International Microbiology</i> , 2014, 17, 91-7.	1.1	18

#	ARTICLE	IF	CITATIONS
19	Comparative analysis of methodologies for the detection of horizontally transferred genes: a reassessment of first-order Markov models. <i>In Silico Biology</i> , 2005, 5, 581-92.	0.4	17
20	Methanogenesis on Early Stages of Life: Ancient but Not Primordial. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 407-420.	0.8	16
21	Alarmones as Vestiges of a Bygone RNA World. <i>Journal of Molecular Evolution</i> , 2019, 87, 37-51.	0.8	16
22	Protein Disulfide Oxidoreductases and the Evolution of Thermophily: Was the Last Common Ancestor a Heat-Loving Microbe?. <i>Journal of Molecular Evolution</i> , 2007, 65, 296-303.	0.8	15
23	Composition-Based Methods to Identify Horizontal Gene Transfer. <i>Methods in Molecular Biology</i> , 2009, 532, 215-225.	0.4	12
24	Low complexity regions (LCRs) contribute to the hypervariability of the HIV-1 gp120 protein. <i>Journal of Theoretical Biology</i> , 2013, 338, 80-86.	0.8	12
25	Can an Imidazole Be Formed from an Alanyl-Seryl-Glycine Tripeptide under Possible Prebiotic Conditions?. <i>Origins of Life and Evolution of Biospheres</i> , 2017, 47, 345-354.	0.8	12
26	Loss of DNA: A plausible molecular level explanation for crustacean neuropeptide gene evolution. <i>Peptides</i> , 2007, 28, 76-82.	1.2	11
27	On the Early Evolution of Catabolic Pathways: A Comparative Genomics Approach. I. The Cases of Glucose, Ribose, and the Nucleobases Catabolic Routes. <i>Journal of Molecular Evolution</i> , 2018, 86, 27-46.	0.8	9
28	Cloning, expression and partial characterization of a gene encoding the S15a ribosomal protein of <i>Taenia solium</i> . <i>Parasitology Research</i> , 2004, 92, 414-420.	0.6	8
29	The Role of Gene Duplication in the Divergence of Enzyme Function: A Comparative Approach. <i>Frontiers in Genetics</i> , 2021, 12, 641817.	1.1	8
30	Holocene life and microbiome profiling in ancient tropical Lake Chalco, Mexico. <i>Scientific Reports</i> , 2021, 11, 13848.	1.6	8
31	The Nature of the Last Common Ancestor. , 2004, , 34-47.		7
32	The Semi-Enzymatic Origin of Metabolic Pathways: Inferring a Very Early Stage of the Evolution of Life. <i>Journal of Molecular Evolution</i> , 2021, 89, 183-188.	0.8	7
33	Bioinformatic analysis of P granule-related proteins: insights into germ granule evolution in nematodes. <i>Development Genes and Evolution</i> , 2010, 220, 41-52.	0.4	6
34	Coenzymes, viruses and the RNA world. <i>Biochimie</i> , 2012, 94, 1467-1473.	1.3	6
35	Ancient gene duplications in RNA viruses revealed by protein tertiary structure comparisons. <i>Virus Evolution</i> , 2021, 7, veab019.	2.2	6
36	Structural analysis of viral ExoN domains reveals polyphyletic hijacking events. <i>PLoS ONE</i> , 2021, 16, e0246981.	1.1	6

#	ARTICLE	IF	CITATIONS
37	Cenancestor, the Last Universal Common Ancestor. <i>Evolution: Education and Outreach</i> , 2012, 5, 382-388.	0.3	4
38	Structural Analysis of Monomeric RNA-Dependent Polymerases Revisited. <i>Journal of Molecular Evolution</i> , 2022, 90, 283-295.	0.8	4
39	Molecular Analysis Confirms that FKRP-Related Disorders are Underdiagnosed in Mexican Patients with Neuromuscular Diseases. <i>Neuropediatrics</i> , 2017, 48, 442-450.	0.3	3
40	Repetitive DNA profile of the amphibian mitogenome. <i>BMC Bioinformatics</i> , 2020, 21, 197.	1.2	3
41	Extremophiles and the Origin of Life. , 0, , 1-10.		3
42	Evolutionary theory: it's on the school syllabus in Mexico. <i>Nature</i> , 2008, 453, 719-719.	13.7	2
43	Metalloproteins and the Pyrite-based Origin of Life: A Critical Assessment. <i>Origins of Life and Evolution of Biospheres</i> , 2011, 41, 347-356.	0.8	2
44	Two short low complexity regions (LCRs) are hallmark sequences of the Delta SARS-CoV-2 variant spike protein. <i>Scientific Reports</i> , 2022, 12, 936.	1.6	1
45	The universal ancestor: An unfinished reconstruction. <i>Metode</i> , 2015, .	0.0	0
46	DNA structure and architecture in the chromosome and plasmid of hyperthermophilic organisms, a theoretical approach. <i>Boletín De La Sociedad Geológica Mexicana</i> , 2016, 68, 165-172.	0.1	0
47	A Note on the Potential Clinical Use of Sofosbuvir to Treat COVID-19: The Importance of Protease Inhibitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
48	Reconstructing the Last Common Ancestor: Epistemological and Empirical Challenges. <i>Acta Biotheoretica</i> , 2022, 70, 15.	0.7	0