

David Alvarez-Ponce

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.

43
papers

1,129
citations

17
h-index

33
g-index

47
ext. papers

1,462
ext. citations

5.9
avg, IF

4.5
L-index

#	Paper	IF	Citations
43	Genome sequences of the human body louse and its primary endosymbiont provide insights into the permanent parasitic lifestyle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12168-73	11.5	383
42	The avocado genome informs deep angiosperm phylogeny, highlights introgressive hybridization, and reveals pathogen-influenced gene space adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17081-17089	11.5	66
41	Network-level molecular evolutionary analysis of the insulin/TOR signal transduction pathway across 12 <i>Drosophila</i> genomes. <i>Genome Research</i> , 2009 , 19, 234-42	9.7	64
40	Genome of the pitcher plant <i>Cephalotus</i> reveals genetic changes associated with carnivory. <i>Nature Ecology and Evolution</i> , 2017 , 1, 59	12.3	61
39	Emerging Priorities for Microbiome Research. <i>Frontiers in Microbiology</i> , 2020 , 11, 136	5.7	50
38	Gene similarity networks provide tools for understanding eukaryote origins and evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1594-603	11.5	46
37	Phylogenetic Distribution of CMP-Neu5Ac Hydroxylase (CMAH), the Enzyme Synthetizing the Proinflammatory Human Xenoantigen Neu5Gc. <i>Genome Biology and Evolution</i> , 2018 , 10, 207-219	3.9	41
36	Evolutionary rate and duplicability in the <i>Arabidopsis thaliana</i> protein-protein interaction network. <i>Genome Biology and Evolution</i> , 2012 , 4, 1263-74	3.9	40
35	Comparative genomics of the vertebrate insulin/TOR signal transduction pathway: a network-level analysis of selective pressures. <i>Genome Biology and Evolution</i> , 2011 , 3, 87-101	3.9	38
34	Recent positive selection has acted on genes encoding proteins with more interactions within the whole human interactome. <i>Genome Biology and Evolution</i> , 2015 , 7, 1141-54	3.9	36
33	The Molecular Chaperone DnaK Is a Source of Mutational Robustness. <i>Genome Biology and Evolution</i> , 2016 , 8, 2979-2991	3.9	34
32	Position Matters: Network Centrality Considerably Impacts Rates of Protein Evolution in the Human Protein-Protein Interaction Network. <i>Genome Biology and Evolution</i> , 2017 , 9, 1742-1756	3.9	24
31	Network-level and population genetics analysis of the insulin/TOR signal transduction pathway across human populations. <i>Molecular Biology and Evolution</i> , 2012 , 29, 1379-92	8.3	22
30	The relationship between the hierarchical position of proteins in the human signal transduction network and their rate of evolution. <i>BMC Evolutionary Biology</i> , 2012 , 12, 192	3	21
29	Chance and necessity in the genome evolution of endosymbiotic bacteria of insects. <i>ISME Journal</i> , 2017 , 11, 1291-1304	11.9	20
28	The human genome retains relics of its prokaryotic ancestry: human genes of archaeobacterial and eubacterial origin exhibit remarkable differences. <i>Genome Biology and Evolution</i> , 2011 , 3, 782-90	3.9	18
27	Molecular population genetics of the insulin/TOR signal transduction pathway: a network-level analysis in <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2012 , 29, 123-32	8.3	17

26	Essentiality Is a Strong Determinant of Protein Rates of Evolution during Mutation Accumulation Experiments in Escherichia coli. <i>Genome Biology and Evolution</i> , 2016 , 8, 2914-2927	3.9	16
25	Integration of two ancestral chaperone systems into one: the evolution of eukaryotic molecular chaperones in light of eukaryogenesis. <i>Molecular Biology and Evolution</i> , 2014 , 31, 410-8	8.3	14
24	Molecular evolution of DNMT1 in vertebrates: Duplications in marsupials followed by positive selection. <i>PLoS ONE</i> , 2018 , 13, e0195162	3.7	12
23	Disulfide Bonds Enable Accelerated Protein Evolution. <i>Molecular Biology and Evolution</i> , 2017 , 34, 1833-1837	3.7	11
22	Positive Selection and Centrality in the Yeast and Fly Protein-Protein Interaction Networks. <i>BioMed Research International</i> , 2016 , 2016, 4658506	3	11
21	Molecular Chaperones Accelerate the Evolution of Their Protein Clients in Yeast. <i>Genome Biology and Evolution</i> , 2019 , 11, 2360-2375	3.9	10
20	Why Proteins Evolve at Different Rates: The Determinants of Proteins Rates of Evolution 2014 , 126-178		9
19	Secreted Proteins Defy the Expression Level-Evolutionary Rate Anticorrelation. <i>Molecular Biology and Evolution</i> , 2017 , 34, 692-706	8.3	9
18	Myxosporea (Myxozoa, Cnidaria) Lack DNA Cytosine Methylation. <i>Molecular Biology and Evolution</i> , 2021 , 38, 393-404	8.3	8
17	Codon Usage Differences among Genes Expressed in Different Tissues of Drosophila melanogaster. <i>Genome Biology and Evolution</i> , 2019 , 11, 1054-1065	3.9	6
16	Arabidopsis Heat Stress-Induced Proteins Are Enriched in Electrostatically Charged Amino Acids and Intrinsically Disordered Regions. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	6
15	Increased genome sampling reveals a dynamic relationship between gene duplicability and the structure of the primate protein-protein interaction network. <i>Molecular Biology and Evolution</i> , 2012 , 29, 3563-73	8.3	6
14	What lies beneath? Molecular evolution during the radiation of caecilian amphibians. <i>BMC Genomics</i> , 2019 , 20, 354	4.5	4
13	Higher Rates of Protein Evolution in the Self-Fertilizing Plant Arabidopsis thaliana than in the Out-Crossers Arabidopsis lyrata and Arabidopsis halleri. <i>Genome Biology and Evolution</i> , 2018 , 10, 895-900	3.9	4
12	Intrinsic protein disorder reduces small-scale gene duplicability. <i>DNA Research</i> , 2017 , 24, 435-444	4.5	3
11	Recording negative results of protein-protein interaction assays: an easy way to deal with the biases and errors of interactomic data sets. <i>Briefings in Bioinformatics</i> , 2017 , 18, 1017-1020	13.4	3
10	Proteins of generalist and specialist pathogens differ in their amino acid composition. <i>Life Science Alliance</i> , 2018 , 1, e201800017	5.8	3
9	Richard Dickerson, Molecular Clocks, and Rates of Protein Evolution. <i>Journal of Molecular Evolution</i> , 2021 , 89, 122-126	3.1	3

8	High quality draft genome sequence of strain BH29, isolated from the respiratory tract of a desert tortoise. <i>Standards in Genomic Sciences</i> , 2018 , 13, 9		2
7	Comment on "The Molecular Evolutionary Patterns of the Insulin/FOXO Signaling Pathway". <i>Evolutionary Bioinformatics</i> , 2013 , 9, 229-34	1.9	2
6	Rates of protein evolution across the marsupial phylogeny: heterogeneity and link to life-history traits. <i>Genome Biology and Evolution</i> , 2021 ,	3.9	2
5	N-glycoproteins exhibit a positive expression level-evolutionary rate correlation. <i>Journal of Evolutionary Biology</i> , 2019 , 32, 390-394	2.3	1
4	High quality draft genome sequences of strains PS6 and 723 isolated from tortoises with upper respiratory tract disease. <i>Standards in Genomic Sciences</i> , 2018 , 13, 12		1
3	Mammals with Small Populations Do Not Exhibit Larger Genomes. <i>Molecular Biology and Evolution</i> , 2021 , 38, 3737-3741	8.3	1
2	<i>Mycoplasma agassizii</i> , an opportunistic pathogen of tortoises, shows very little genetic variation across the Mojave and Sonoran Deserts. <i>PLoS ONE</i> , 2021 , 16, e0245895	3.7	1
1	Koala methylomes reveal divergent and conserved DNA methylation signatures of X chromosome regulation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20202244	4.4	0