Gergely J SzöllÅ'si

List of Publications by Year in descending order

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59 papers

3,935 citations

201674 27 h-index 54 g-index

80 all docs

80 docs citations

80 times ranked 4273 citing authors

#	Article	IF	Citations
1	Recoding Amino Acids to a Reduced Alphabet may Increase or Decrease Phylogenetic Accuracy. Systematic Biology, 2023, 72, 723-737.	5.6	8
2	Relative Time Constraints Improve Molecular Dating. Systematic Biology, 2022, 71, 797-809.	5.6	9
3	Nucleotide Usage Biases Distort Inferences of the Species Tree. Genome Biology and Evolution, 2022, 14, .	2.5	7
4	SpeciesRax: A Tool for Maximum Likelihood Species Tree Inference from Gene Family Trees under Duplication, Transfer, and Loss. Molecular Biology and Evolution, 2022, 39, .	8.9	29
5	An estimate of the deepest branches of the tree of life from ancient vertically evolving genes. ELife, 2022, 11, .	6.0	43
6	Trade-off between reducing mutational accumulation and increasing commitment to differentiation determines tissue organization. Nature Communications, 2022, 13, 1666.	12.8	5
7	Distinguishing excess mutations and increased cell death based on variant allele frequencies. PLoS Computational Biology, 2022, 18, e1010048.	3.2	O
8	Inferring the Deep Past from Molecular Data. Genome Biology and Evolution, 2021, 13, .	2.5	19
9	A rooted phylogeny resolves early bacterial evolution. Science, 2021, 372, .	12.6	128
10	Resurrection of Ancestral Malate Dehydrogenases Reveals the Evolutionary History of Halobacterial Proteins: Deciphering Gene Trajectories and Changes in Biochemical Properties. Molecular Biology and Evolution, 2021, 38, 3754-3774.	8.9	10
11	Zombi: a phylogenetic simulator of trees, genomes and sequences that accounts for dead linages. Bioinformatics, 2020, 36, 1286-1288.	4.1	25
12	Phylogenomics provides robust support for a two-domains tree of life. Nature Ecology and Evolution, 2020, 4, 138-147.	7.8	159
13	Scalable Empirical Mixture Models That Account for Across-Site Compositional Heterogeneity. Molecular Biology and Evolution, 2020, 37, 3616-3631.	8.9	32
14	Large-scale genome sequencing of mycorrhizal fungi provides insights into the early evolution of symbiotic traits. Nature Communications, 2020, 11, 5125.	12.8	258
15	GeneRax: A Tool for Species-Tree-Aware Maximum Likelihood-Based Gene ÂFamily Tree Inference under Gene Duplication, Transfer, and Loss. Molecular Biology and Evolution, 2020, 37, 2763-2774.	8.9	87
16	A compartment size-dependent selective threshold limits mutation accumulation in hierarchical tissues. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1606-1611.	7.1	9
17	Megaphylogeny resolves global patterns of mushroom evolution. Nature Ecology and Evolution, 2019, 3, 668-678.	7.8	187
18	Quantifying GC-Biased Gene Conversion in Great Ape Genomes Using Polymorphism-Aware Models. Genetics, 2019, 212, 1321-1336.	2.9	28

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19	Gene transfers can date the tree of life. Nature Ecology and Evolution, 2018, 2, 904-909.	7.8	52
20	Genome size evolution in the Archaea. Emerging Topics in Life Sciences, 2018, 2, 595-605.	2.6	23
21	RecPhyloXML: a format for reconciled gene trees. Bioinformatics, 2018, 34, 3646-3652.	4.1	22
22	Hierarchical tissue organization as a general mechanism to limit the accumulation of somatic mutations. Nature Communications, 2017, 8, 14545.	12.8	45
23	How Long Does Wolbachia Remain on Board?. Molecular Biology and Evolution, 2017, 34, 1183-1193.	8.9	82
24	Integrative modeling of gene and genome evolution roots the archaeal tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4602-E4611.	7.1	232
25	Hierarchical Tissue Organization as a General Mechanism to Limit Somatic Evolution. Biophysical Journal, 2017, 112, 284a.	0.5	0
26	Fungal Phylogeny in the Age of Genomics: Insights Into Phylogenetic Inference From Genome-Scale Datasets. Advances in Genetics, 2017, 100, 49-72.	1.8	16
27	On Cancer Risk and the Hierarchical Architecture of Tissues. Biophysical Journal, 2016, 110, 479a.	0.5	0
28	ecceTERA: comprehensive gene tree-species tree reconciliation using parsimony. Bioinformatics, 2016, 32, 2056-2058.	4.1	98
29	Horizontal Gene Transfer and the History of Life. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018036.	5.5	79
30	Gene Acquisitions from Bacteria at the Origins of Major Archaeal Clades Are Vastly Overestimated. Molecular Biology and Evolution, 2016, 33, 305-310.	8.9	37
31	How similar are nut-cracking and stone-flaking? A functional approach to percussive technology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140355.	4.0	40
32	The Inference of Gene Trees with Species Trees. Systematic Biology, 2015, 64, e42-e62.	5.6	226
33	Genome-scale phylogenetic analysis finds extensive gene transfer among fungi. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140335.	4.0	77
34	Effective Temperature of Mutations. Physical Review Letters, 2015, 114, 058101.	7.8	6
35	Joint amalgamation of most parsimonious reconciled gene trees. Bioinformatics, 2015, 31, 841-848.	4.1	44
36	Toward More Accurate Ancestral Protein Genotype–Phenotype Reconstructions with the Use of Species Tree-Aware Gene Trees. Molecular Biology and Evolution, 2015, 32, 13-22.	8.9	43

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37	The Effective Temperature of Mutations: A General Mechanism for the Congruent Evolution of Robustness. Biophysical Journal, 2014, 106, 657a.	0.5	O
38	Lateral gene transfer, rearrangement, reconciliation. BMC Bioinformatics, 2013, 14, S4.	2.6	21
39	Lateral Gene Transfer from the Dead. Systematic Biology, 2013, 62, 386-397.	5.6	100
40	Efficient Exploration of the Space of Reconciled Gene Trees. Systematic Biology, 2013, 62, 901-912.	5.6	176
41	Genome-scale coestimation of species and gene trees. Genome Research, 2013, 23, 323-330.	5.5	223
42	Evolution of gene neighborhoods within reconciled phylogenies. Bioinformatics, 2012, 28, i382-i388.	4.1	34
43	Phylogenetic modeling of lateral gene transfer reconstructs the pattern and relative timing of speciations. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17513-17518.	7.1	150
44	Modeling Gene Family Evolution and Reconciling Phylogenetic Discord. Methods in Molecular Biology, 2012, 856, 29-51.	0.9	29
45	Relationship Between Internal Friction and the Roughness of the Energy Landscape of Protein Conformational Changes. Biophysical Journal, 2011, 100, 537a.	0.5	0
46	Protein Flexibility Partitions the Effects of Energy Landscape Roughness Between Activation Energy and Internal Friction. Biophysical Journal, 2011, 100, 537a.	0.5	0
47	Neck-Linker Docking Coordinates the Kinetics of Kinesin's Heads. Biophysical Journal, 2011, 100, 1729-1736.	0.5	9
48	Temperature dependence of internal friction in enzyme reactions. FASEB Journal, 2011, 25, 2804-2813.	0.5	13
49	Emergent Neutrality in Adaptive Asexual Evolution. Genetics, 2011, 189, 1361-1375.	2.9	109
50	Damage and Fluctuations Induce Loops in Optimal Transport Networks. Physical Review Letters, 2010, 104, 048704.	7.8	261
51	The Relative Significance of External and Internal Friction in Protein Conformational Changes. Biophysical Journal, 2010, 98, 237a.	0.5	1
52	An Efficient Algorithm for Gene/Species Trees Parsimonious Reconciliation with Losses, Duplications and Transfers. Lecture Notes in Computer Science, 2010, , 93-108.	1.3	78
53	Congruent Evolution of Genetic and Environmental Robustness in Micro-RNA. Molecular Biology and Evolution, 2009, 26, 867-874.	8.9	45
54	How Does Kinesin Walk And Coordinate Its Heads?. Biophysical Journal, 2009, 96, 136a.	0.5	1

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55	The relevance of neck linker docking in the motility of kinesin. BioSystems, 2008, 93, 29-33.	2.0	6
56	The effect of recombination on the neutral evolution of genetic robustness. Mathematical Biosciences, 2008, 214, 58-62.	1.9	24
57	Evolutionary games on minimally structured populations. Physical Review E, 2008, 78, 031919.	2.1	11
58	Phase transition in the collective migration of tissue cells: Experiment and model. Physical Review E, 2006, 74, 061908.	2.1	382
59	The Maintenance of Sex in Bacteria Is Ensured by Its Potential to Reload Genes. Genetics, 2006, 174, 2173-2180.	2.9	19