

# B Franz Lang

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

8,386  
citations

57758

44  
h-index

79698

73  
g-index

82  
all docs

82  
docs citations

82  
times ranked

7865  
citing authors

#	ARTICLE	IF	CITATIONS
1	An ancestral mitochondrial DNA resembling a eubacterial genome in miniature. <i>Nature</i> , 1997, 387, 493-497.	27.8	658
2	Mitochondrial Genome Evolution and the Origin of Eukaryotes. <i>Annual Review of Genetics</i> , 1999, 33, 351-397.	7.6	603
3	Phylogenomic analyses support the monophyly of Excavata and resolve relationships among eukaryotic "supergroups". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3859-3864.	7.1	444
4	<i>Cyanophora paradoxa</i> Genome Elucidates Origin of Photosynthesis in Algae and Plants. <i>Science</i> , 2012, 335, 843-847.	12.6	371
5	Genomic Analysis of the Basal Lineage Fungus <i>Rhizopus oryzae</i> Reveals a Whole-Genome Duplication. <i>PLoS Genetics</i> , 2009, 5, e1000549.	3.5	332
6	Mitochondrial introns: a critical view. <i>Trends in Genetics</i> , 2007, 23, 119-125.	6.7	313
7	Mitochondria of Protists. <i>Annual Review of Genetics</i> , 2004, 38, 477-524.	7.6	295
8	Detecting and Overcoming Systematic Errors in Genome-Scale Phylogenies. <i>Systematic Biology</i> , 2007, 56, 389-399.	5.6	288
9	A Phylogenomic Investigation into the Origin of Metazoa. <i>Molecular Biology and Evolution</i> , 2008, 25, 664-672.	8.9	259
10	The <i>Capsaspora</i> genome reveals a complex unicellular prehistory of animals. <i>Nature Communications</i> , 2013, 4, 2325.	12.8	244
11	Strikingly Bacteria-Like and Gene-Rich Mitochondrial Genomes throughout Jakobid Protists. <i>Genome Biology and Evolution</i> , 2013, 5, 418-438.	2.5	222
12	Premetazoan genome evolution and the regulation of cell differentiation in the choanoflagellate <i>Salpingoeca rosetta</i> . <i>Genome Biology</i> , 2013, 14, R15.	9.6	219
13	The origins of multicellularity: a multi-taxon genome initiative. <i>Trends in Genetics</i> , 2007, 23, 113-118.	6.7	201
14	Complete Sequence of the Mitochondrial DNA of the Red Alga <i>Porphyra purpurea</i> : Cyanobacterial Introns and Shared Ancestry of Red and Green Algae. <i>Plant Cell</i> , 1999, 11, 1675-1694.	6.6	178
15	Whirly proteins maintain plastid genome stability in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14693-14698.	7.1	177
16	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	3.9	175
17	Unexpected Repertoire of Metazoan Transcription Factors in the Unicellular Holozoan <i>Capsaspora owczarzaki</i> . <i>Molecular Biology and Evolution</i> , 2011, 28, 1241-1254.	8.9	172
18	Toward Resolving the Eukaryotic Tree: The Phylogenetic Positions of Jakobids and Cercozoans. <i>Current Biology</i> , 2007, 17, 1420-1425.	3.9	170

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19	Phylogenetic Relationships within the Opisthokonta Based on Phylogenomic Analyses of Conserved Single-Copy Protein Domains. <i>Molecular Biology and Evolution</i> , 2012, 29, 531-544.	8.9	166
20	Bacterial proteins pinpoint a single eukaryotic root. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E693-9.	7.1	159
21	The Complete Mitochondrial DNA Sequences of <i>Nephroselmis olivacea</i> and <i>Pedinomonas minor</i> : Two Radically Different Evolutionary Patterns within Green Algae. <i>Plant Cell</i> , 1999, 11, 1717-1729.	6.6	154
22	Latent homology and convergent regulatory evolution underlies the repeated emergence of yeasts. <i>Nature Communications</i> , 2014, 5, 4471.	12.8	133
23	Widespread occurrence of organelle genome-encoded 5S rRNAs including permuted molecules. <i>Nucleic Acids Research</i> , 2014, 42, 13764-13777.	14.5	129
24	Rooting the Eukaryotic Tree with Mitochondrial and Bacterial Proteins. <i>Molecular Biology and Evolution</i> , 2012, 29, 1277-1289.	8.9	121
25	Phylogenomic analyses predict sistergroup relationship of nucleariids and Fungi and paraphyly of zygomycetes with significant support. <i>BMC Evolutionary Biology</i> , 2009, 9, 272.	3.2	119
26	Phylogenomics demonstrates that breviate flagellates are related to opisthokonts and apusomonads. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131755.	2.6	119
27	Updating algal evolutionary relationships through plastid genome sequencing: did alveolate plastids emerge through endosymbiosis of an ochrophyte?. <i>Scientific Reports</i> , 2015, 5, 10134.	3.3	102
28	Phylogenomic Analyses Support the Monophyly of Taphrinomycotina, including <i>Schizosaccharomyces</i> Fission Yeasts. <i>Molecular Biology and Evolution</i> , 2009, 26, 27-34.	8.9	91
29	An updated phylogeny of the Alphaproteobacteria reveals that the parasitic Rickettsiales and Holosporales have independent origins. <i>ELife</i> , 2019, 8, .	6.0	91
30	A Broad Phylogenetic Survey Unveils the Diversity and Evolution of Telomeres in Eukaryotes. <i>Genome Biology and Evolution</i> , 2013, 5, 468-483.	2.5	89
31	Sequencing complete mitochondrial and plastid genomes. <i>Nature Protocols</i> , 2007, 2, 603-614.	12.0	84
32	TBestDB: a taxonomically broad database of expressed sequence tags (ESTs). <i>Nucleic Acids Research</i> , 2007, 35, D445-D451.	14.5	81
33	A Comparative Genomics Approach to the Evolution of Eukaryotes and their Mitochondria. <i>Journal of Eukaryotic Microbiology</i> , 1999, 46, 320-326.	1.7	79
34	Group I-intron trans-splicing and mRNA editing in the mitochondria of placozoan animals. <i>Trends in Genetics</i> , 2009, 25, 381-386.	6.7	79
35	Mitochondrial DNA of <i>Clathrina clathrus</i> (Cnidaria, Clathrinata): Six Linear Chromosomes, Fragmented rRNAs, tRNA Editing, and a Novel Genetic Code. <i>Molecular Biology and Evolution</i> , 2013, 30, 865-880.	8.9	78
36	Insights into the Origin of Metazoan Filopodia and Microvilli. <i>Molecular Biology and Evolution</i> , 2013, 30, 2013-2023.	8.9	78

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37	GOBASE: an organelle genome database. <i>Nucleic Acids Research</i> , 2009, 37, D946-D950.	14.5	74
38	Dinoflagellate tandem array gene transcripts are highly conserved and not polycistronic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15793-15798.	7.1	73
39	Glass Sponges and Bilaterian Animals Share Derived Mitochondrial Genomic Features: A Common Ancestry or Parallel Evolution?. <i>Molecular Biology and Evolution</i> , 2007, 24, 1518-1527.	8.9	70
40	An ancestral bacterial division system is widespread in eukaryotic mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10239-10246.	7.1	70
41	Evolution of linear chromosomes and multipartite genomes in yeast mitochondria. <i>Nucleic Acids Research</i> , 2011, 39, 4202-4219.	14.5	69
42	Purification of mitochondrial and plastid DNA. <i>Nature Protocols</i> , 2007, 2, 652-660.	12.0	58
43	Massive programmed translational jumping in mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5926-5931.	7.1	58
44	Group I Intron-Mediated Trans-splicing in Mitochondria of <i>Gigaspora rosea</i> and a Robust Phylogenetic Affiliation of Arbuscular Mycorrhizal Fungi with Mortierellales. <i>Molecular Biology and Evolution</i> , 2012, 29, 2199-2210.	8.9	49
45	The draft nuclear genome sequence and predicted mitochondrial proteome of <i>Andalucia godoyi</i> , a protist with the most gene-rich and bacteria-like mitochondrial genome. <i>BMC Biology</i> , 2020, 18, 22.	3.8	43
46	An unusual tRNA <sup>Thr</sup> derived from tRNA <sup>His</sup> reassigns in yeast mitochondria the CUN codons to threonine. <i>Nucleic Acids Research</i> , 2011, 39, 4866-4874.	14.5	35
47	The RNA structure alignment ontology. <i>Rna</i> , 2009, 15, 1623-1631.	3.5	34
48	Yeast mitochondrial RNase P, RNase Z and the RNA degradosome are part of a stable supercomplex. <i>Nucleic Acids Research</i> , 2012, 40, 1728-1736.	14.5	31
49	Diversity and dispersal of a ubiquitous protein family: acyl-CoA dehydrogenases. <i>Nucleic Acids Research</i> , 2009, 37, 5619-5631.	14.5	26
50	New Insights Into <i>Acidithiobacillus thiooxidans</i> Sulfur Metabolism Through Coupled Gene Expression, Solution Chemistry, Microscopy, and Spectroscopy Analyses. <i>Frontiers in Microbiology</i> , 2020, 11, 411.	3.5	24
51	Distribution and Phylogeny of EFL and EF-1 $\alpha$ in Euglenozoa Suggest Ancestral Co-Occurrence Followed by Differential Loss. <i>PLoS ONE</i> , 2009, 4, e5162.	2.5	24
52	Natural reassignment of CUU and CUA sense codons to alanine in <i>Ashbya</i> mitochondria. <i>Nucleic Acids Research</i> , 2014, 42, 499-508.	14.5	23
53	Mitochondrial tRNA Structure, Identity, and Evolution of the Genetic Code. , 2012, , 431-474.		22
54	Sequence and structure of the linear mitochondrial genome of <i>Pneumocystis carinii</i> . <i>Molecular Genetics and Genomics</i> , 2010, 283, 63-72.	2.1	20

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55	Plastid Genomes of Algae. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 59-87.	1.0	20
56	Genome Sequence of <i>Spizellomyces punctatus</i> . <i>Genome Announcements</i> , 2016, 4, .	0.8	20
57	UTILITY OF THE MITOCHONDRIAL <i>nad4L</i> GENE FOR ALGAL AND PROTISTAN PHYLOGENETIC ANALYSIS1. <i>Journal of Phycology</i> , 1996, 32, 452-456.	2.3	19
58	Programmed translational bypassing elements in mitochondria: structure, mobility, and evolutionary origin. <i>Trends in Genetics</i> , 2015, 31, 187-194.	6.7	19
59	Analysis of diverse eukaryotes suggests the existence of an ancestral mitochondrial apparatus derived from the bacterial type II secretion system. <i>Nature Communications</i> , 2021, 12, 2947.	12.8	19
60	A second eukaryotic group with mitochondrion-encoded tmRNA. <i>RNA Biology</i> , 2013, 10, 1117-1124.	3.1	18
61	Construction of cDNA Libraries: Focus on Protists and Fungi. <i>Methods in Molecular Biology</i> , 2009, 533, 33-47.	0.9	18
62	Mitochondrial Genomics in Protists, an Approach to Probing Eukaryotic Evolution. <i>Protist</i> , 1998, 149, 313-322.	1.5	17
63	The complete <i>Glomus intraradices</i> mitochondrial genome sequence â€” a milestone in mycorrhizal research. <i>New Phytologist</i> , 2009, 183, 3-6.	7.3	17
64	Daily Changes in the Phosphoproteome of the Dinoflagellate <i>Lingulodinium</i> . <i>Protist</i> , 2012, 163, 746-754.	1.5	17
65	Evolution of tRNA Repertoires in <i>Bacillus</i> Inferred with OrthoAlign. <i>Molecular Biology and Evolution</i> , 2015, 32, 1643-1656.	8.9	16
66	Mitochondrial and Eukaryotic Origins. <i>Advances in Botanical Research</i> , 2012, , 1-20.	1.1	14
67	Genome sequence of the opportunistic human pathogen <i>Magnusiomyces capitatus</i> . <i>Current Genetics</i> , 2019, 65, 539-560.	1.7	14
68	Accounting for Gene Rate Heterogeneity in Phylogenetic Inference. <i>Systematic Biology</i> , 2007, 56, 194-205.	5.6	12
69	Mitochondrial Genomes in Fungi. , 2018, , 722-728.		12
70	Evolution of the Fungi and their Mitochondrial Genomes. <i>Applied Mycology and Biotechnology</i> , 2003, 3, 133-159.	0.3	10
71	Analysis of genes encoding highly conserved lysine-rich proteins in <i>Aplysia californica</i> and <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 1994, 220, 997-1003.	0.2	8
72	An Unexpectedly Complex Mitoribosome in <i>Andalucia godoyi</i> , a Protist with the Most Bacteria-like Mitochondrial Genome. <i>Molecular Biology and Evolution</i> , 2021, 38, 788-804.	8.9	8

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73	Mitochondrial genomes of the human pathogens <i>Coccidioides immitis</i> and <i>Coccidioides posadasii</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	8
74	Mitochondrial Genomes in Fungi. , 2014, , 1-7.		4
75	Endosymbionts in cranberry: Diversity, effect on plant growth, and pathogen biocontrol. <i>Plants People Planet</i> , 2022, 4, 511-522.	3.3	4
76	Mitochondrial Genomes in Unicellular Relatives of Animals. , 2014, , 1-4.		2
77	EST Databases and Web Tools for EST Projects. <i>Methods in Molecular Biology</i> , 2009, 533, 241-256.	0.9	2
78	Mitochondrial Genomes in Unicellular Relatives of Animals. , 2018, , 742-745.		0