

Iñaki Ruiz-Trillo

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

6,459
citations

71102

41
h-index

76900

74
g-index

129
all docs

129
docs citations

129
times ranked

5864
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Txikispora philomaios</i> n. sp., n. g., a microeukaryotic pathogen of amphipods, reveals parasitism and hidden diversity in Class Filasterea. <i>Journal of Eukaryotic Microbiology</i> , 2022, 69, e12875.	1.7	6
2	Rel/NF- κ B Transcription Factors Emerged at the Onset of Opisthokonts. <i>Genome Biology and Evolution</i> , 2022, 14, .	2.5	7
3	Regulation of sedimentation rate shapes the evolution of multicellularity in a close unicellular relative of animals. <i>PLoS Biology</i> , 2022, 20, e3001551.	5.6	14
4	A phylogenetic and proteomic reconstruction of eukaryotic chromatin evolution. <i>Nature Ecology and Evolution</i> , 2022, 6, 1007-1023.	7.8	26
5	The origin of animals: an ancestral reconstruction of the unicellular-to-multicellular transition. <i>Open Biology</i> , 2021, 11, 200359.	3.6	67
6	Stable transfection in protist <i>Corallochytrium limacisporum</i> identifies novel cellular features among unicellular animals relatives. <i>Current Biology</i> , 2021, 31, 4104-4110.e5.	3.9	13
7	Evolution of a histone variant involved in compartmental regulation of NAD metabolism. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 1009-1019.	8.2	7
8	Towards understanding the origin of animal development. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	17
9	Integrin-Mediated Adhesion in the Unicellular Holozoan <i>Capsaspora owczarzaki</i> . <i>Current Biology</i> , 2020, 30, 4270-4275.e4.	3.9	20
10	Antifungal and antiprotzoal green amino acid-based rhamnolipids: Mode of action, antibiofilm efficiency and selective activity against resistant <i>Candida</i> spp. strains and <i>Acanthamoeba castellanii</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111148.	5.0	8
11	Revisiting the phylogenetic position of <i>Caullerya mesnili</i> (Ichthyosporea), a common <i>Daphnia</i> parasite, based on 22 protein-coding genes. <i>Molecular Phylogenetics and Evolution</i> , 2020, 151, 106891.	2.7	7
12	Gene Similarity Networks Unveil a Potential Novel Unicellular Group Closely Related to Animals from the Tara Oceans Expedition. <i>Genome Biology and Evolution</i> , 2020, 12, 1664-1678.	2.5	9
13	Cell cycle transcriptomics of <i>Capsaspora</i> provides insights into the evolution of cyclin-CDK machinery. <i>PLoS Genetics</i> , 2020, 16, e1008584.	3.5	8
14	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. <i>Nature Methods</i> , 2020, 17, 481-494.	19.0	97
15	Origin Recognition Complex (ORC) Evolution Is Influenced by Global Gene Duplication/Loss Patterns in Eukaryotic Genomes. <i>Genome Biology and Evolution</i> , 2020, 12, 3878-3889.	2.5	9
16	Title is missing!. , 2020, 16, e1008584.		0
17	Title is missing!. , 2020, 16, e1008584.		0
18	Title is missing!. , 2020, 16, e1008584.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 16, e1008584.		0
20	Reconstruction of protein domain evolution using single-cell amplified genomes of uncultured choanoflagellates sheds light on the origin of animals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190088.	4.0	36
21	A global metabarcoding analysis expands molecular diversity of Platyhelminthes and reveals novel early-branching clades. Biology Letters, 2019, 15, 20190182.	2.3	6
22	Reticulate evolution in eukaryotes: Origin and evolution of the nitrate assimilation pathway. PLoS Genetics, 2019, 15, e1007986.	3.5	21
23	Concepts of the last eukaryotic common ancestor. Nature Ecology and Evolution, 2019, 3, 338-344.	7.8	44
24	Revision of the <i>Capsaspora</i> genome using read mating information adjusts the view on premetazoan genome. Development Growth and Differentiation, 2019, 61, 34-42.	1.5	7
25	The Expansion of Inosine at the Wobble Position of tRNAs, and Its Role in the Evolution of Proteomes. Molecular Biology and Evolution, 2019, 36, 650-662.	8.9	34
26	A unicellular relative of animals generates a layer of polarized cells by actomyosin-dependent cellularization. ELife, 2019, 8, .	6.0	41
27	Discovering the biology behind the organism while developing genetic tools for <i>Corallochytrium limacisporum</i> . Access Microbiology, 2019, 1, .	0.5	0
28	Characterization of a group I Nme protein of <i>Capsaspora owczarzakii</i> a close unicellular relative of animals. Laboratory Investigation, 2018, 98, 304-314.	3.7	6
29	Codon adaptation to tRNAs with Inosine modification at position 34 is widespread among Eukaryotes and present in two Bacterial phyla. RNA Biology, 2018, 15, 500-507.	3.1	49
30	Novel Diversity of Deeply Branching Holomycota and Unicellular Holozoans Revealed by Metabarcoding in Middle Paraná River, Argentina. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	20
31	Origin of exon skipping-rich transcriptomes in animals driven by evolution of gene architecture. Genome Biology, 2018, 19, 135.	8.8	61
32	Unicellular Origin of the Animal MicroRNA Machinery. Current Biology, 2018, 28, 3288-3295.e5.	3.9	42
33	Transfection of <i>Capsaspora owczarzaki</i> , a close unicellular relative of animals. Development (Cambridge), 2018, 145, .	2.5	33
34	Decoupling of Nuclear Division Cycles and Cell Size during the Coenocytic Growth of the Ichthyosporean <i>Sphaeroforma arctica</i> . Current Biology, 2018, 28, 1964-1969.e2.	3.9	27
35	Metabarcoding analysis on European coastal samples reveals new molecular metazoan diversity. Scientific Reports, 2018, 8, 9106.	3.3	34
36	<i>Parvularia atlantis</i> gen. et sp. nov., a Nucleariid Filose Amoeba (Holomycota, Opisthokonta). Journal of Eukaryotic Microbiology, 2018, 65, 170-179.	1.7	21

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37	The origin of Metazoa: a unicellular perspective. <i>Nature Reviews Genetics</i> , 2017, 18, 498-512.	16.3	239
38	Evolution and Classification of the T-Box Transcription Factor Family. <i>Current Topics in Developmental Biology</i> , 2017, 122, 1-26.	2.2	28
39	Evaluation of single-cell genomics to address evolutionary questions using three SAGs of the choanoflagellate <i>Monosiga brevicollis</i> . <i>Scientific Reports</i> , 2017, 7, 11025.	3.3	19
40	<i>Capsaspora owczarzaki</i> . <i>Current Biology</i> , 2017, 27, R829-R830.	3.9	20
41	Dynamics of genomic innovation in the unicellular ancestry of animals. <i>ELife</i> , 2017, 6, .	6.0	121
42	The Dynamic Regulatory Genome of <i>Capsaspora</i> and the Origin of Animal Multicellularity. <i>Cell</i> , 2016, 165, 1224-1237.	28.9	139
43	Losing Complexity: The Role of Simplification in Macroevolution. <i>Trends in Ecology and Evolution</i> , 2016, 31, 608-621.	8.7	55
44	Sterol metabolism in the filasterean <i>Capsaspora owczarzaki</i> has features that resemble both fungi and animals. <i>Open Biology</i> , 2016, 6, 160029.	3.6	9
45	High-Throughput Proteomics Reveals the Unicellular Roots of Animal Phosphosignaling and Cell Differentiation. <i>Developmental Cell</i> , 2016, 39, 186-197.	7.0	51
46	Hidden diversity of Acoelomorpha revealed through metabarcoding. <i>Biology Letters</i> , 2016, 12, 20160674.	2.3	17
47	Sterol and genomic analyses validate the sponge biomarker hypothesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2684-2689.	7.1	110
48	Acoelomorpha: earliest branching bilaterians or deuterostomes?. <i>Organisms Diversity and Evolution</i> , 2016, 16, 391-399.	1.6	26
49	Expression Atlas of the Deubiquitinating Enzymes in the Adult Mouse Retina, Their Evolutionary Diversification and Phenotypic Roles. <i>PLoS ONE</i> , 2016, 11, e0150364.	2.5	10
50	The Eukaryotic Ancestor Had a Complex Ubiquitin Signaling System of Archaeal Origin. <i>Molecular Biology and Evolution</i> , 2015, 32, 726-739.	8.9	58
51	Diversity and distribution of unicellular opisthokonts along the European coast analysed using high-throughput sequencing. <i>Environmental Microbiology</i> , 2015, 17, 3195-3207.	3.8	52
52	Origin and evolution of lysyl oxidases. <i>Scientific Reports</i> , 2015, 5, 10568.	3.3	86
53	Tracing the Evolutionary History of Inositol 1, 4, 5-Trisphosphate Receptor: Insights from Analyses of <i>Capsaspora owczarzaki</i> Ca ²⁺ Release Channel Orthologs. <i>Molecular Biology and Evolution</i> , 2015, 32, 2236-2253.	8.9	44
54	Phylogenomics Reveals Convergent Evolution of Lifestyles in Close Relatives of Animals and Fungi. <i>Current Biology</i> , 2015, 25, 2404-2410.	3.9	169

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55	Filastereans and Ichthyosporeans: Models to Understand the Origin of Metazoan Multicellularity. <i>Advances in Marine Genomics</i> , 2015, , 117-128.	1.2	5
56	Complex transcriptional regulation and independent evolution of fungal-like traits in a relative of animals. <i>ELife</i> , 2015, 4, e08904.	6.0	59
57	Evolution and Classification of Myosins, a Paneukaryotic Whole-Genome Approach. <i>Genome Biology and Evolution</i> , 2014, 6, 290-305.	2.5	121
58	The Evolution of the GPCR Signaling System in Eukaryotes: Modularity, Conservation, and the Transition to Metazoan Multicellularity. <i>Genome Biology and Evolution</i> , 2014, 6, 606-619.	2.5	145
59	The others: our biased perspective of eukaryotic genomes. <i>Trends in Ecology and Evolution</i> , 2014, 29, 252-259.	8.7	167
60	Earliest Holozoan Expansion of Phosphotyrosine Signaling. <i>Molecular Biology and Evolution</i> , 2014, 31, 517-528.	8.9	41
61	Novel roles of plant RETINOBLASTOMA-RELATED (RBR) protein in cell proliferation and asymmetric cell division. <i>Journal of Experimental Botany</i> , 2014, 65, 2657-2666.	4.8	49
62	Forward genetics for back-in-time questions. <i>ELife</i> , 2014, 3, .	6.0	1
63	The <i>Capsaspora</i> genome reveals a complex unicellular prehistory of animals. <i>Nature Communications</i> , 2013, 4, 2325.	12.8	244
64	Transcription factor evolution in eukaryotes and the assembly of the regulatory toolkit in multicellular lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4858-66.	7.1	183
65	Molecular Phylogeny of Unikonts: New Insights into the Position of Apusomonads and Ancyromonads and the Internal Relationships of Opisthokonts. <i>Protist</i> , 2013, 164, 2-12.	1.5	91
66	Development of ichthyosporeans sheds light on the origin of metazoan multicellularity. <i>Developmental Biology</i> , 2013, 377, 284-292.	2.0	73
67	Early evolution of the T-box transcription factor family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16050-16055.	7.1	80
68	A Genomic Survey of HECT Ubiquitin Ligases in Eukaryotes Reveals Independent Expansions of the HECT System in Several Lineages. <i>Genome Biology and Evolution</i> , 2013, 5, 833-847.	2.5	35
69	A Broad Genomic Survey Reveals Multiple Origins and Frequent Losses in the Evolution of Respiratory Hemerythrins and Hemocyanins. <i>Genome Biology and Evolution</i> , 2013, 5, 1435-1442.	2.5	26
70	Environmental Survey Meta-analysis Reveals Hidden Diversity among Unicellular Opisthokonts. <i>Molecular Biology and Evolution</i> , 2013, 30, 802-805.	8.9	64
71	Insights into the Origin of Metazoan Filopodia and Microvilli. <i>Molecular Biology and Evolution</i> , 2013, 30, 2013-2023.	8.9	78
72	Regulated aggregative multicellularity in a close unicellular relative of metazoa. <i>ELife</i> , 2013, 2, e01287.	6.0	139

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73	Premetazoan Origin of the Hippo Signaling Pathway. <i>Cell Reports</i> , 2012, 1, 13-20.	6.4	111
74	Lack of Csk-Mediated Negative Regulation in a Unicellular Src Kinase. <i>Biochemistry</i> , 2012, 51, 8267-8277.	2.5	19
75	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
76	Genomic Survey of Premetazoans Shows Deep Conservation of Cytoplasmic Tyrosine Kinases and Multiple Radiations of Receptor Tyrosine Kinases. <i>Science Signaling</i> , 2012, 5, ra35.	3.6	108
77	A genomic survey shows that the haloarchaeal type tyrosyl tRNA synthetase is not a synapomorphy of opisthokonts. <i>European Journal of Protistology</i> , 2012, 48, 89-93.	1.5	4
78	Phylogenomic Evidence for a Myxococcal Contribution to the Mitochondrial Fatty Acid Beta-Oxidation. <i>PLoS ONE</i> , 2011, 6, e21989.	2.5	7
79	New genomes, new taxa and deep questions in the eukaryotic tree of life: a meeting report on the EMBO comparative genomics conference. <i>EvoDevo</i> , 2011, 2, 22.	3.2	0
80	The Mysterious Evolutionary Origin for the GNE Gene and the Root of Bilateria. <i>Molecular Biology and Evolution</i> , 2011, 28, 2987-2991.	8.9	11
81	Premetazoan Ancestry of the Mycâ€“Max Network. <i>Molecular Biology and Evolution</i> , 2011, 28, 2961-2971.	8.9	59
82	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
83	Evolution of the MAGUK protein gene family in premetazoan lineages. <i>BMC Evolutionary Biology</i> , 2010, 10, 93.	3.2	91
84	<i>Sawyeria marylandensis</i> (Heterolobosea) Has a Hydrogenosome with Novel Metabolic Properties. <i>Eukaryotic Cell</i> , 2010, 9, 1913-1924.	3.4	40
85	Ancient origin of the integrin-mediated adhesion and signaling machinery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10142-10147.	7.1	225
86	Integrin-mediated adhesion complex. <i>Communicative and Integrative Biology</i> , 2010, 3, 475-477.	1.4	33
87	The Evolutionary History of Lysine Biosynthesis Pathways Within Eukaryotes. <i>Journal of Molecular Evolution</i> , 2009, 69, 240-248.	1.8	32
88	A Phylogenomic Investigation into the Origin of Metazoa. <i>Molecular Biology and Evolution</i> , 2008, 25, 664-672.	8.9	259
89	Alternative Methods for Concatenation of Core Genes Indicate a Lack of Resolution in Deep Nodes of the Prokaryotic Phylogeny. <i>Molecular Biology and Evolution</i> , 2007, 25, 83-91.	8.9	96
90	The Diversity of Mitochondrion-Related Organelles Amongst Eukaryotic Microbes. , 2007, , 239-275.		17

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91	The origins of multicellularity: a multi-taxon genome initiative. <i>Trends in Genetics</i> , 2007, 23, 113-118.	6.7	201
92	Observations on a Geocentrophorasp. (Lecithoepitheliata) flatworm from forest soils in Nova Scotia. <i>Journal of Natural History</i> , 2006, 40, 1381-1387.	0.5	5
93	Insights into the Evolutionary Origin and Genome Architecture of the Unicellular Opisthokonts <i>Capsaspora owczarzaki</i> and <i>Sphaeroforma arctica</i> . <i>Journal of Eukaryotic Microbiology</i> , 2006, 53, 379-384.	1.7	61
94	<i>Capsaspora owczarzaki</i> is an independent opisthokont lineage. <i>Current Biology</i> , 2004, 14, R946-R947.	3.9	82
95	Mitochondrial genome data support the basal position of Acoelomorpha and the polyphyly of the Platyhelminthes. <i>Molecular Phylogenetics and Evolution</i> , 2004, 33, 321-332.	2.7	92
96	A phylogenetic analysis of myosin heavy chain type II sequences corroborates that Acoela and Nemertodermatida are basal bilaterians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11246-11251.	7.1	229
97	The Nemertodermatida are basal bilaterians and not members of the Platyhelminthes. <i>Zoologica Scripta</i> , 2002, 31, 201-215.	1.7	169
98	Acoel Flatworms: Earliest Extant Bilaterian Metazoans, Not Members of Platyhelminthes. <i>Science</i> , 1999, 283, 1919-1923.	12.6	427
99	A robust molecular phylogeny of the Tricladida (Platyhelminthes: Seriata) with a discussion on morphological synapomorphies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998, 265, 631-640.	2.6	41
100	A Unicellular Relative of Animals Generates an Epithelium-Like Cell Layer by Actomyosin-dependent Cellularization. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3