

# Nicolas Salamin

## List of Publications by Citations

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132  
papers

6,899  
citations

43  
h-index

80  
g-index

142  
ext. papers

8,642  
ext. citations

6.7  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
132	The origins of C4 grasslands: integrating evolutionary and ecosystem science. <i>Science</i> , <b>2010</b> , 328, 587-91	33.3	698
131	Sympatric speciation in palms on an oceanic island. <i>Nature</i> , <b>2006</b> , 441, 210-3	50.4	467
130	Exotic taxa less related to native species are more invasive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 5841-5	11.5	361
129	ecospat: an R package to support spatial analyses and modeling of species niches and distributions. <i>Ecography</i> , <b>2017</b> , 40, 774-787	6.5	336
128	Oligocene CO2 decline promoted C4 photosynthesis in grasses. <i>Current Biology</i> , <b>2008</b> , 18, 37-43	6.3	268
127	Nonredundant regulation of rice arbuscular mycorrhizal symbiosis by two members of the phosphate transporter1 gene family. <i>Plant Cell</i> , <b>2012</b> , 24, 4236-51	11.6	214
126	Phylogenetics of Miscanthus, Saccharum and related genera (Saccharinae, Andropogoneae, Poaceae) based on DNA sequences from ITS nuclear ribosomal DNA and plastid trnL-trnF intergenic spacers. <i>Journal of Plant Research</i> , <b>2002</b> , 115, 381-92	2.6	203
125	Large multi-gene phylogenetic trees of the grasses (Poaceae): progress towards complete tribal and generic level sampling. <i>Molecular Phylogenetics and Evolution</i> , <b>2008</b> , 47, 488-505	4.1	194
124	60 million years of co-divergence in the fig-wasp symbiosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 272, 2593-9	4.4	162
123	C4 Photosynthesis evolved in grasses via parallel adaptive genetic changes. <i>Current Biology</i> , <b>2007</b> , 17, 1241-7	6.3	159
122	Molecular dating, evolutionary rates, and the age of the grasses. <i>Systematic Biology</i> , <b>2014</b> , 63, 153-65	8.4	128
121	Phylogenetic conservatism in plant phenology. <i>Journal of Ecology</i> , <b>2013</b> , 101, 1520-1530	6	125
120	Non-monophyly of the woody bamboos (Bambuseae; Poaceae): a multi-gene region phylogenetic analysis of Bambusoideae s.s. <i>Journal of Plant Research</i> , <b>2009</b> , 122, 95-108	2.6	118
119	Phylogenomics of C(4) photosynthesis in sedges (Cyperaceae): multiple appearances and genetic convergence. <i>Molecular Biology and Evolution</i> , <b>2009</b> , 26, 1909-19	8.3	115
118	Bayesian estimation of speciation and extinction from incomplete fossil occurrence data. <i>Systematic Biology</i> , <b>2014</b> , 63, 349-67	8.4	110
117	The role of clade competition in the diversification of North American canids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8684-9	11.5	105
116	Molecular phylogenetics of shrews (Mammalia: Soricidae) reveal timing of transcontinental colonizations. <i>Molecular Phylogenetics and Evolution</i> , <b>2007</b> , 44, 126-37	4.1	103

115	Evolutionary switch and genetic convergence on rbcL following the evolution of C4 photosynthesis. <i>Molecular Biology and Evolution</i> , <b>2008</b> , 25, 2361-8	8.3	102
114	The origins and diversification of C4 grasses and savanna-adapted ungulates. <i>Global Change Biology</i> , <b>2009</b> , 15, 2397-2417	11.4	86
113	Building supertrees: an empirical assessment using the grass family (Poaceae). <i>Systematic Biology</i> , <b>2002</b> , 51, 136-50	8.4	82
112	PyRate: a new program to estimate speciation and extinction rates from incomplete fossil data. <i>Methods in Ecology and Evolution</i> , <b>2014</b> , 5, 1126-1131	7.7	73
111	Assessing rapid evolution in a changing environment. <i>Trends in Ecology and Evolution</i> , <b>2010</b> , 25, 692-8	10.9	72
110	Temporal and spatial origin of Gesneriaceae in the New World inferred from plastid DNA sequences. <i>Botanical Journal of the Linnean Society</i> , <b>2013</b> , 171, 61-79	2.2	68
109	Integrating phylogeny into studies of C4 variation in the grasses. <i>Plant Physiology</i> , <b>2009</b> , 149, 82-7	6.6	67
108	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. <i>Ecology</i> , <b>2012</b> , 93, 242-7	4.6	64
107	Mutualism with sea anemones triggered the adaptive radiation of clownfishes. <i>BMC Evolutionary Biology</i> , <b>2012</b> , 12, 212	3	63
106	Evolutionary patterns of MHC class II B in owls and their implications for the understanding of avian MHC evolution. <i>Molecular Biology and Evolution</i> , <b>2008</b> , 25, 1180-91	8.3	62
105	Assessing internal support with large phylogenetic DNA matrices. <i>Molecular Phylogenetics and Evolution</i> , <b>2003</b> , 27, 528-39	4.1	61
104	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. <i>Ecosystems</i> , <b>2012</b> , 15, 1283-1294	3.9	60
103	Turnover of plant lineages shapes herbivore phylogenetic beta diversity along ecological gradients. <i>Ecology Letters</i> , <b>2013</b> , 16, 600-8	10	59
102	Fossils matter: improved estimates of divergence times in <i>Pinus</i> reveal older diversification. <i>BMC Evolutionary Biology</i> , <b>2017</b> , 17, 95	3	58
101	Adaptive divergence of ancient gene duplicates in the avian MHC class II beta. <i>Molecular Biology and Evolution</i> , <b>2010</b> , 27, 2360-74	8.3	57
100	The simultaneous inducibility of phytochemicals related to plant direct and indirect defences against herbivores is stronger at low elevation. <i>Journal of Ecology</i> , <b>2016</b> , 104, 1116-1125	6	55
99	Measurement errors should always be incorporated in phylogenetic comparative analysis. <i>Methods in Ecology and Evolution</i> , <b>2015</b> , 6, 340-346	7.7	54
98	Evolution of C(4) phosphoenolpyruvate carboxykinase in grasses, from genotype to phenotype. <i>Molecular Biology and Evolution</i> , <b>2009</b> , 26, 357-65	8.3	54

97	Biogeographic origin and radiation of the Old World crocidurine shrews (Mammalia: Soricidae) inferred from mitochondrial and nuclear genes. <i>Molecular Phylogenetics and Evolution</i> , <b>2008</b> , 48, 953-63	4.1	54
96	Evolutionary insights on C4 photosynthetic subtypes in grasses from genomics and phylogenetics. <i>Genome Biology and Evolution</i> , <b>2009</b> , 1, 221-30	3.9	53
95	The impact of endothermy on the climatic niche evolution and the distribution of vertebrate diversity. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 459-464	12.3	50
94	Hummingbird pollination and the diversification of angiosperms: an old and successful association in Gesneriaceae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 284,	4.4	48
93	Taxogenomics of the order Chlamydiales. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2015</b> , 65, 1381-1393	2.2	45
92	Selectome update: quality control and computational improvements to a database of positive selection. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, D917-21	20.1	45
91	Climate change effects on animal and plant phylogenetic diversity in southern Africa. <i>Global Change Biology</i> , <b>2014</b> , 20, 1538-1549	11.4	44
90	DNA banking for plant breeding, biotechnology and biodiversity evaluation. <i>Journal of Plant Research</i> , <b>2007</b> , 120, 17-29	2.6	44
89	Convergent evolution of floral signals underlies the success of Neotropical orchids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20130960	4.4	43
88	Flowering date of taxonomic families predicts phenological sensitivity to temperature: Implications for forecasting the effects of climate change on unstudied taxa. <i>American Journal of Botany</i> , <b>2013</b> , 100, 1381-97	2.7	43
87	Genetic consequences of Quaternary climatic oscillations in the Himalayas: <i>Primula tibetica</i> as a case study based on restriction site-associated DNA sequencing. <i>New Phytologist</i> , <b>2017</b> , 213, 1500-1512	9.8	42
86	Next generation biogeography: towards understanding the drivers of species diversification and persistence. <i>Journal of Biogeography</i> , <b>2013</b> , 40, 1013-1022	4.1	42
85	Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework. <i>Paleobiology</i> , <b>2019</b> , 45, 546-570	2.6	41
84	Fossil biogeography: a new model to infer dispersal, extinction and sampling from palaeontological data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371, 20150225	5.8	39
83	The radiation of the clownfishes has two geographical replicates. <i>Journal of Biogeography</i> , <b>2014</b> , 41, 2140-2149	4.1	39
82	Effects of phylogenetic signal on ancestral state reconstruction. <i>Systematic Biology</i> , <b>2012</b> , 61, 533-8	8.4	39
81	Effects of a fire response trait on diversification in replicated radiations. <i>Evolution; International Journal of Organic Evolution</i> , <b>2014</b> , 68, 453-65	3.8	37
80	Combining food web and species distribution models for improved community projections. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 4572-83	2.8	37

79	Niche width impacts vertebrate diversification. <i>Global Ecology and Biogeography</i> , <b>2016</b> , 25, 1252-1263	6.1	37
78	Hybridisation and diversification in the adaptive radiation of clownfishes. <i>BMC Evolutionary Biology</i> , <b>2014</b> , 14, 245	3	36
77	Spatial predictions of phylogenetic diversity in conservation decision making. <i>Conservation Biology</i> , <b>2011</b> , 25, 1229-1239	6	32
76	Cadmium hyperaccumulation and genetic differentiation of <i>Thlaspi caerulescens</i> populations. <i>Biochemical Systematics and Ecology</i> , <b>2006</b> , 34, 667-677	1.4	32
75	Evolution of a supergene that regulates a trans-species social polymorphism. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 240-249	12.3	30
74	The evolutionary host switches of <i>Polychromophilus</i> : a multi-gene phylogeny of the bat malaria genus suggests a second invasion of mammals by a haemosporidian parasite. <i>Malaria Journal</i> , <b>2012</b> , 11, 53	3.6	30
73	Phylogenetic analyses of plastid and nuclear DNA sequences indicate a rapid late Miocene radiation of the temperate bamboo tribe Arundinarieae (Poaceae, Bambusoideae). <i>Plant Ecology and Diversity</i> , <b>2010</b> , 3, 109-120	2.2	30
72	Trophic specialization influences the rate of environmental niche evolution in damselfishes (Pomacentridae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 3662-9	4.4	30
71	Early Arrival and Climatically-Linked Geographic Expansion of New World Monkeys from Tiny African Ancestors. <i>Systematic Biology</i> , <b>2019</b> , 68, 78-92	8.4	27
70	Developmental and comparative transcriptomic identification of iridophore contribution to white barring in clownfish. <i>Pigment Cell and Melanoma Research</i> , <b>2019</b> , 32, 391-402	4.5	26
69	A dedicated target capture approach reveals variable genetic markers across micro- and macro-evolutionary time scales in palms. <i>Molecular Ecology Resources</i> , <b>2019</b> , 19, 221-234	8.4	26
68	Phylogeny and biogeography of <i>Primula</i> sect. <i>Armerina</i> : implications for plant evolution under climate change and the uplift of the Qinghai-Tibet Plateau. <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 161	3	24
67	Phylogenetic plant community structure along elevation is lineage specific. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 4925-39	2.8	24
66	Towards building the tree of life: a simulation study for all angiosperm genera. <i>Systematic Biology</i> , <b>2005</b> , 54, 183-96	8.4	24
65	Comparative performance of supertree algorithms in large data sets using the soapberry family (Sapindaceae) as a case study. <i>Systematic Biology</i> , <b>2011</b> , 60, 32-44	8.4	22
64	Environment and evolutionary history shape phylogenetic turnover in European tetrapods. <i>Nature Communications</i> , <b>2019</b> , 10, 249	17.4	22
63	Bridging Inter- and Intraspecific Trait Evolution with a Hierarchical Bayesian Approach. <i>Systematic Biology</i> , <b>2016</b> , 65, 417-31	8.4	21
62	Loss of interactions with ants under cold climate in a regional myrmecophilous butterfly fauna. <i>Journal of Biogeography</i> , <b>2012</b> , 39, 1782-1790	4.1	20

61	Plant DNA barcodes and the influence of gene flow. <i>Molecular Ecology Resources</i> , <b>2012</b> , 12, 575-80	8.4	20
60	Large-scale whole-genome resequencing unravels the domestication history of. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	20
59	Linking life-history traits, ecology, and niche breadth evolution in North American eriogonoids (Polygonaceae). <i>American Naturalist</i> , <b>2013</b> , 182, 760-74	3.7	19
58	Targeted Capture of Hundreds of Nuclear Genes Unravels Phylogenetic Relationships of the Diverse Neotropical Palm Tribe Geonomateae. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 864	6.2	18
57	Optimization strategies for fast detection of positive selection on phylogenetic trees. <i>Bioinformatics</i> , <b>2014</b> , 30, 1129-1137	7.2	18
56	First draft genome of an iconic clownfish species ( <i>Amphiprion frenatus</i> ). <i>Molecular Ecology Resources</i> , <b>2018</b> , 18, 1092	8.4	17
55	Clownfishes evolution below and above the species level. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	17
54	Evolutionary footprint of coevolving positions in genes. <i>Bioinformatics</i> , <b>2014</b> , 30, 1241-9	7.2	17
53	A generalized mechanistic codon model. <i>Molecular Biology and Evolution</i> , <b>2014</b> , 31, 2528-41	8.3	17
52	Interspecific correlation between red blood cell mitochondrial ROS production, cardiolipin content and longevity in birds. <i>Age</i> , <b>2016</b> , 38, 433-443		16
51	Back to Gondwanaland: can ancient vicariance explain (some) Indian Ocean disjunct plant distributions?. <i>Biology Letters</i> , <b>2015</b> , 11, 20150086	3.6	16
50	Molecular ecology studies of species radiations: current research gaps, opportunities and challenges. <i>Molecular Ecology</i> , <b>2017</b> , 26, 2608-2622	5.7	15
49	Large-Scale Comparative Analysis of Codon Models Accounting for Protein and Nucleotide Selection. <i>Molecular Biology and Evolution</i> , <b>2019</b> , 36, 1316-1332	8.3	15
48	Improving spatial predictions of taxonomic, functional and phylogenetic diversity. <i>Journal of Ecology</i> , <b>2018</b> , 106, 76-86	6	15
47	Decoupled evolution of floral traits and climatic preferences in a clade of Neotropical Gesneriaceae. <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 247	3	15
46	Host specialist clownfishes are environmental niche generalists. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281,	4.4	15
45	Phylogeny reconstruction and functional constraints in organellar genomes: plastid atpB and rbcL sequences versus animal mitochondrion. <i>Systematic Biology</i> , <b>2002</b> , 51, 638-47	8.4	15
44	Insights into the Genomics of Clownfish Adaptive Radiation: Genetic Basis of the Mutualism with Sea Anemones. <i>Genome Biology and Evolution</i> , <b>2019</b> , 11, 869-882	3.9	14

43	Effect of genetic convergence on phylogenetic inference. <i>Molecular Phylogenetics and Evolution</i> , <b>2012</b> , 62, 921-7	4.1	14
42	Selection on the Major Color Gene Melanocortin-1-Receptor Shaped the Evolution of the Melanocortin System Genes. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	13
41	Plant functional and phylogenetic turnover correlate with climate and land use in the Western Swiss Alps. <i>Journal of Plant Ecology</i> , <b>2014</b> , 7, 439-450	1.7	13
40	Detecting patterns of species diversification in the presence of both rate shifts and mass extinctions. <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 157	3	12
39	Phylogenomics of Gesneriaceae using targeted capture of nuclear genes. <i>Molecular Phylogenetics and Evolution</i> , <b>2021</b> , 157, 107068	4.1	12
38	Different rates of defense evolution and niche preferences in clonal and nonclonal milkweeds ( <i>Asclepias</i> spp.). <i>New Phytologist</i> , <b>2016</b> , 209, 1230-9	9.8	12
37	No evidence for the radiation time lag model after whole genome duplications in Teleostei. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176384	3.7	9
36	Large Trees, Supertrees, and Diversification of the Grass Family. <i>Aliso</i> , <b>2007</b> , 23, 248-258		9
35	Prototypic SNARE Proteins Are Encoded in the Genomes of Heimdallarchaeota, Potentially Bridging the Gap between the Prokaryotes and Eukaryotes. <i>Current Biology</i> , <b>2020</b> , 30, 2468-2480.e5	6.3	9
34	Using Supertrees to Investigate Species Richness in Grasses and Flowering Plants. <i>Computational Biology</i> , <b>2004</b> , 461-486	0.7	8
33	Systematics of Vriesea (Bromeliaceae): phylogenetic relationships based on nuclear gene and partial plastome sequences. <i>Botanical Journal of the Linnean Society</i> , <b>2020</b> , 192, 656-674	2.2	8
32	Rapid climate change results in long-lasting spatial homogenization of phylogenetic diversity. <i>Nature Communications</i> , <b>2020</b> , 11, 4663	17.4	8
31	Why are some species older than others? A large-scale study of vertebrates. <i>BMC Evolutionary Biology</i> , <b>2016</b> , 16, 90	3	8
30	Duplication history and molecular evolution of the rbcS multigene family in angiosperms. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 6127-6139	7	7
29	Molecular evolutionary rates are not correlated with temperature and latitude in Squamata: an exception to the metabolic theory of ecology?. <i>BMC Evolutionary Biology</i> , <b>2016</b> , 16, 95	3	7
28	Resprouter fraction in Cape Restionaceae assemblages varies with climate and soil type. <i>Functional Ecology</i> , <b>2016</b> , 30, 1583-1592	5.6	7
27	Scale-dependent adaptive evolution and morphological convergence to climatic niche in Californian eriogonoids (Polygonaceae). <i>Journal of Biogeography</i> , <b>2014</b> , 41, 1326-1337	4.1	7
26	SlimCodeML: An Optimized Version of CodeML for the Branch-Site Model <b>2012</b> ,		7

25	Fossil-informed models reveal a Boreotropical origin and divergent evolutionary trajectories in the walnut family (Juglandaceae). <i>Systematic Biology</i> , <b>2021</b> ,	8.4	7
24	A process-based model supports an association between dispersal and the prevalence of species traits in tropical reef fish assemblages. <i>Ecography</i> , <b>2019</b> , 42, 2095-2106	6.5	7
23	Species divergence and maintenance of species cohesion of three closely related <i>Primula</i> species in the Qinghai-Tibet Plateau. <i>Journal of Biogeography</i> , <b>2018</b> , 45, 2495-2507	4.1	7
22	Coev-web: a web platform designed to simulate and evaluate coevolving positions along a phylogenetic tree. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 394	3.6	6
21	Functional diversification enabled grassy biomes to fill global climate space		6
20	Simultaneous Bayesian inference of phylogeny and molecular coevolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5027-5036	11.5	5
19	Evolution of life cycles and reproductive traits: Insights from the brown algae. <i>Journal of Evolutionary Biology</i> , <b>2021</b> , 34, 992-1009	2.3	5
18	gcodeml: a Grid-enabled tool for detecting positive selection in biological evolution. <i>Studies in Health Technology and Informatics</i> , <b>2012</b> , 175, 59-68	0.5	5
17	Polymorphic sites preferentially avoid co-evolving residues in MHC class I proteins. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006188	5	4
16	Population Genetic Structure and Demographic History of in Southwest China. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 986	6.2	4
15	A multi-platform package for the analysis of intra- and interspecific trait evolution. <i>Methods in Ecology and Evolution</i> , <b>2020</b> , 11, 1439-1447	7.7	4
14	Thyroid hormones regulate the formation and environmental plasticity of white bars in clownfishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
13	Slowly but surely: gradual diversification and phenotypic evolution in the hyper-diverse tree fern family Cyatheaceae. <i>Annals of Botany</i> , <b>2020</b> , 125, 93-103	4.1	4
12	Genomic footprints of repeated evolution of CAM photosynthesis in a Neotropical species radiation. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 2987-3001	8.4	3
11	State aggregation for fast likelihood computations in molecular evolution. <i>Bioinformatics</i> , <b>2017</b> , 33, 354-362	7.62	3
10	Transcriptomic resources for an endemic Neotropical plant lineage (Gesneriaceae). <i>Applications in Plant Sciences</i> , <b>2017</b> , 5, 1600135	2.3	2
9	Linking micro and macroevolution in the presence of migration. <i>Journal of Theoretical Biology</i> , <b>2020</b> , 486, 110087	2.3	2
8	A Cautionary Note on the Use of Genotype Callers in Phylogenomics. <i>Systematic Biology</i> , <b>2021</b> , 70, 844-854	4	2



7	Accelerating Bayesian inference for evolutionary biology models. <i>Bioinformatics</i> , <b>2017</b> , 33, 669-676	7.2	2
6	On the Effect of Asymmetrical Trait Inheritance on Models of Trait Evolution. <i>Systematic Biology</i> , <b>2021</b> , 70, 376-388	8.4	2
5	Evolutionary history of New World monkeys revealed by molecular and fossil data		1
4	Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework		1
3	On the effect of asymmetrical trait inheritance on models of trait evolution		1
2	Genome Skimming Reveals Widespread Hybridization in a Neotropical Flowering Plant Radiation. <i>Frontiers in Ecology and Evolution</i> , <b>2021</b> , 9,	3.7	1
1	CoevDB: a database of intramolecular coevolution among protein-coding genes of the bony vertebrates. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, D50-D54	20.1	1