Nicolas Salamin

List of Publications by Year in Descending Order

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	A Cautionary Note on the Use of Genotype Callers in Phylogenomics. *Systematic Biology*, **2021**, 70, 844-854	8.4	2
131	Phylogenomics of Gesneriaceae using targeted capture of nuclear genes. *Molecular Phylogenetics and Evolution*, **2021**, 157, 107068	4.1	12
130	Fossil-informed models reveal a Boreotropical origin and divergent evolutionary trajectories in the walnut family (Juglandaceae). *Systematic Biology*, **2021**,	8.4	7
129	Genome Skimming Reveals Widespread Hybridization in a Neotropical Flowering Plant Radiation. *Frontiers in Ecology and Evolution*, **2021**, 9,	3.7	1
128	Thyroid hormones regulate the formation and environmental plasticity of white bars in clownfishes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
127	Evolution of life cycles and reproductive traits: Insights from the brown algae. *Journal of Evolutionary Biology*, **2021**, 34, 992-1009	2.3	5
126	On the Effect of Asymmetrical Trait Inheritance on Models of Trait Evolution. *Systematic Biology*, **2021**, 70, 376-388	8.4	2
125	Large-scale whole-genome resequencing unravels the domestication history of. *Science Advances*, **2021**, 7,	14.3	20
124	Evolution of a supergene that regulates a trans-species social polymorphism. *Nature Ecology and Evolution*, **2020**, 4, 240-249	12.3	30
123	Prototypic SNARE Proteins Are Encoded in the Genomes of Heimdallarchaeota, Potentially Bridging the Gap between the Prokaryotes and Eukaryotes. *Current Biology*, **2020**, 30, 2468-2480.e5	6.3	9
122	Linking micro and macroevolution in the presence of migration. *Journal of Theoretical Biology*, **2020** , 486, 110087	2.3	2
121	Systematics of Vriesea (Bromeliaceae): phylogenetic relationships based on nuclear gene and partial plastome sequences. *Botanical Journal of the Linnean Society*, **2020**, 192, 656-674	2.2	8
120	Genomic footprints of repeated evolution of CAM photosynthesis in a Neotropical species radiation. *Plant, Cell and Environment*, **2020**, 43, 2987-3001	8.4	3
119	Population Genetic Structure and Demographic History of in Southwest China. *Frontiers in Plant Science*, **2020**, 11, 986	6.2	4
118	A multi-platform package for the analysis of intra- and interspecific trait evolution. *Methods in Ecology and Evolution*, **2020**, 11, 1439-1447	7.7	4
117	Rapid climate change results in long-lasting spatial homogenization of phylogenetic diversity. *Nature Communications*, **2020**, 11, 4663	17.4	8
116	Slowly but surely: gradual diversification and phenotypic evolution in the hyper-diverse tree fern family Cyatheaceae. *Annals of Botany*, **2020**, 125, 93-103	4.1	4

115	Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework. *Paleobiology*, **2019**, 45, 546-570	2.6	41
114	Duplication history and molecular evolution of the rbcS multigene family in angiosperms. *Journal of Experimental Botany*, **2019**, 70, 6127-6139	7	7
113	Large-Scale Comparative Analysis of Codon Models Accounting for Protein and Nucleotide Selection. *Molecular Biology and Evolution*, **2019**, 36, 1316-1332	8.3	15
112	Insights into the Genomics of Clownfish Adaptive Radiation: Genetic Basis of the Mutualism with Sea Anemones. *Genome Biology and Evolution*, **2019**, 11, 869-882	3.9	14
111	Simultaneous Bayesian inference of phylogeny and molecular coevolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 5027-5036	11.5	5
110	Early Arrival and Climatically-Linked Geographic Expansion of New World Monkeys from Tiny African Ancestors. *Systematic Biology*, **2019**, 68, 78-92	8.4	27
109	Targeted Capture of Hundreds of Nuclear Genes Unravels Phylogenetic Relationships of the Diverse Neotropical Palm Tribe Geonomateae. *Frontiers in Plant Science*, **2019**, 10, 864	6.2	18
108	A process-based model supports an association between dispersal and the prevalence of species traits in tropical reef fish assemblages. *Ecography*, **2019**, 42, 2095-2106	6.5	7
107	CoevDB: a database of intramolecular coevolution among protein-coding genes of the bony vertebrates. *Nucleic Acids Research*, **2019**, 47, D50-D54	20.1	1
106	Developmental and comparative transcriptomic identification of iridophore contribution to white barring in clownfish. *Pigment Cell and Melanoma Research*, **2019**, 32, 391-402	4.5	26
105	Environment and evolutionary history shape phylogenetic turnover in European tetrapods. *Nature Communications*, **2019**, 10, 249	17.4	22
104	A dedicated target capture approach reveals variable genetic markers across micro- and macro-evolutionary time scales in palms. *Molecular Ecology Resources*, **2019**, 19, 221-234	8.4	26
103	First draft genome of an iconic clownfish species (Amphiprion frenatus). *Molecular Ecology Resources*, **2018**, 18, 1092	8.4	17
102	Clownfishes evolution below and above the species level. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	17
101	The impact of endothermy on the climatic niche evolution and the distribution of vertebrate diversity. *Nature Ecology and Evolution*, **2018**, 2, 459-464	12.3	50
100	Improving spatial predictions of taxonomic, functional and phylogenetic diversity. *Journal of Ecology*, **2018**, 106, 76-86	6	15
99	Polymorphic sites preferentially avoid co-evolving residues in MHC class I proteins. *PLoS Computational Biology*, **2018**, 14, e1006188	5	4
98	Species divergence and maintenance of species cohesion of three closely related Primula species in the Qinghai□Tibet Plateau. *Journal of Biogeography*, **2018**, 45, 2495-2507	4.1	7

97	Transcriptomic resources for an endemic Neotropical plant lineage (Gesneriaceae). *Applications in Plant Sciences*, **2017**, 5, 1600135	2.3	2
96	Hummingbird pollination and the diversification of angiosperms: an old and successful association in Gesneriaceae. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	48
95	Molecular ecology studies of species radiations: current research gaps, opportunities and challenges. *Molecular Ecology*, **2017**, 26, 2608-2622	5.7	15
94	Fossils matter: improved estimates of divergence times in Pinus reveal older diversification. *BMC Evolutionary Biology*, **2017**, 17, 95	3	58
93	Genetic consequences of Quaternary climatic oscillations in the Himalayas: Primula tibetica as a case study based on restriction site-associated DNA sequencing. *New Phytologist*, **2017**, 213, 1500-1512	9.8	42
92	ecospat: an R package to support spatial analyses and modeling of species niches and distributions. *Ecography*, **2017**, 40, 774-787	6.5	336
91	Selection on the Major Color Gene Melanocortin-1-Receptor Shaped the Evolution of the Melanocortin System Genes. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	13
90	No evidence for the radiation time lag model after whole genome duplications in Teleostei. *PLoS ONE*, **2017**, 12, e0176384	3.7	9
89	State aggregation for fast likelihood computations in molecular evolution. *Bioinformatics*, **2017**, 33, 354-362	7.2	3
88	Accelerating Bayesian inference for evolutionary biology models. *Bioinformatics*, **2017**, 33, 669-676	7.2	2
87	Interspecific correlation between red blood cell mitochondrial ROS production, cardiolipin content and longevity in birds. *Age*, **2016**, 38, 433-443		16
86	Molecular evolutionary rates are not correlated with temperature and latitude in Squamata: an exception to the metabolic theory of ecology?. *BMC Evolutionary Biology*, **2016**, 16, 95	3	7
85	Resprouter fraction in Cape Restionaceae assemblages varies with climate and soil type. *Functional Ecology*, **2016**, 30, 1583-1592	5.6	7
84	Bridging Inter- and Intraspecific Trait Evolution with a Hierarchical Bayesian Approach. *Systematic Biology*, **2016**, 65, 417-31	8.4	21
83	Fossil biogeography: a new model to infer dispersal, extinction and sampling from palaeontological data. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371, 20150225	5.8	39
82	Niche width impacts vertebrate diversification. *Global Ecology and Biogeography*, **2016**, 25, 1252-1263	6.1	37
81	Different rates of defense evolution and niche preferences in clonal and nonclonal milkweeds (Asclepias spp.). *New Phytologist*, **2016**, 209, 1230-9	9.8	12
80	The simultaneous inducibility of phytochemicals related to plant direct and indirect defences against herbivores is stronger at low elevation. *Journal of Ecology*, **2016**, 104, 1116-1125	6	55

79	Why are some species older than others? A large-scale study of vertebrates. *BMC Evolutionary Biology*, **2016**, 16, 90	3	8
78	The role of clade competition in the diversification of North American canids. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8684-9	11.5	105
77	Phylogeny and biogeography of Primula sect. Armerina: implications for plant evolution under climate change and the uplift of the Qinghai-Tibet Plateau. *BMC Evolutionary Biology*, **2015**, 15, 161	3	24
76	Decoupled evolution of floral traits and climatic preferences in a clade of Neotropical Gesneriaceae. *BMC Evolutionary Biology*, **2015**, 15, 247	3	15
75	Coev-web: a web platform designed to simulate and evaluate coevolving positions along a phylogenetic tree. *BMC Bioinformatics*, **2015**, 16, 394	3.6	6
74	Back to Gondwanaland: can ancient vicariance explain (some) Indian Ocean disjunct plant distributions?. *Biology Letters*, **2015**, 11, 20150086	3.6	16
73	Detecting patterns of species diversification in the presence of both rate shifts and mass extinctions. *BMC Evolutionary Biology*, **2015**, 15, 157	3	12
72	Taxogenomics of the order Chlamydiales. *International Journal of Systematic and Evolutionary Microbiology*, **2015**, 65, 1381-1393	2.2	45
71	Measurement errors should always be incorporated in phylogenetic comparative analysis. *Methods in Ecology and Evolution*, **2015**, 6, 340-346	7.7	54
70	Molecular dating, evolutionary rates, and the age of the grasses. *Systematic Biology*, **2014**, 63, 153-65	8.4	128
69	Climate change effects on animal and plant phylogenetic diversity in southern Africa. *Global Change Biology*, **2014**, 20, 1538-1549	11.4	44
68	Scale-dependent adaptive evolution and morphological convergence to climatic niche in Californian eriogonoids (Polygonaceae). *Journal of Biogeography*, **2014**, 41, 1326-1337	4.1	7
67	PyRate: a new program to estimate speciation and extinction rates from incomplete fossil data. *Methods in Ecology and Evolution*, **2014**, 5, 1126-1131	7.7	73
66	The radiation of the clownfishes has two geographical replicates. *Journal of Biogeography*, **2014**, 41, 2140-2149	4.1	39
65	Bayesian estimation of speciation and extinction from incomplete fossil occurrence data. *Systematic Biology*, **2014**, 63, 349-67	8.4	110
64	Evolutionary footprint of coevolving positions in genes. *Bioinformatics*, **2014**, 30, 1241-9	7.2	17
63	Hybridisation and diversification in the adaptive radiation of clownfishes. *BMC Evolutionary Biology*, **2014**, 14, 245	3	36
62	A generalized mechanistic codon model. *Molecular Biology and Evolution*, **2014**, 31, 2528-41	8.3	17

61	Effects of a fire response trait on diversification in replicated radiations. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 453-65	3.8	37
60	Plant functional and phylogenetic turnover correlate with climate and land use in the Western Swiss Alps. *Journal of Plant Ecology*, **2014**, 7, 439-450	1.7	13
59	Host specialist clownfishes are environmental niche generalists. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281,	4.4	15
58	Selectome update: quality control and computational improvements to a database of positive selection. *Nucleic Acids Research*, **2014**, 42, D917-21	20.1	45
57	Optimization strategies for fast detection of positive selection on phylogenetic trees. *Bioinformatics*, **2014**, 30, 1129-1137	7.2	18
56	Phylogenetic conservatism in plant phenology. *Journal of Ecology*, **2013**, 101, 1520-1530	6	125
55	Temporal and spatial origin of Gesneriaceae in the New World inferred from plastid DNA sequences. *Botanical Journal of the Linnean Society*, **2013**, 171, 61-79	2.2	68
54	Linking life-history traits, ecology, and niche breadth evolution in North American eriogonoids (Polygonaceae). *American Naturalist*, **2013**, 182, 760-74	3.7	19
53	Convergent evolution of floral signals underlies the success of Neotropical orchids. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20130960	4.4	43
52	Turnover of plant lineages shapes herbivore phylogenetic beta diversity along ecological gradients. *Ecology Letters*, **2013**, 16, 600-8	10	59
51	Next generation biogeography: towards understanding the drivers of species diversification and persistence. *Journal of Biogeography*, **2013**, 40, 1013-1022	4.1	42
50	Flowering date of taxonomic families predicts phenological sensitivity to temperature: Implications for forecasting the effects of climate change on unstudied taxa. *American Journal of Botany*, **2013**, 100, 1381-97	2.7	43
49	Combining food web and species distribution models for improved community projections. *Ecology and Evolution*, **2013**, 3, 4572-83	2.8	37
48	Phylogenetic plant community structure along elevation is lineage specific. *Ecology and Evolution*, **2013**, 3, 4925-39	2.8	24
47	Loss of interactions with ants under cold climate in a regional myrmecophilous butterfly fauna. *Journal of Biogeography*, **2012**, 39, 1782-1790	4.1	20
46	Plant DNA barcodes and the influence of gene flow. *Molecular Ecology Resources*, **2012**, 12, 575-80	8.4	20
45	SlimCodeML: An Optimized Version of CodeML for the Branch-Site Model **2012**,		7
44	Effect of genetic convergence on phylogenetic inference. *Molecular Phylogenetics and Evolution*, **2012**, 62, 921-7	4.1	14

43	Effects of phylogenetic signal on ancestral state reconstruction. *Systematic Biology*, **2012**, 61, 533-8	8.4	39
42	Mutualism with sea anemones triggered the adaptive radiation of clownfishes. *BMC Evolutionary Biology*, **2012**, 12, 212	3	63
41	Nonredundant regulation of rice arbuscular mycorrhizal symbiosis by two members of the phosphate transporter1 gene family. *Plant Cell*, **2012**, 24, 4236-51	11.6	214
40	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. *Ecosystems*, **2012**, 15, 1283-1294	3.9	60
39	The evolutionary host switches of Polychromophilus: a multi-gene phylogeny of the bat malaria genus suggests a second invasion of mammals by a haemosporidian parasite. *Malaria Journal*, **2012**, 11, 53	3.6	30
38	Trophic specialization influences the rate of environmental niche evolution in damselfishes (Pomacentridae). *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 3662-9	4.4	30
37	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. *Ecology*, **2012**, 93, 242-7	4.6	64
36	gcodeml: a Grid-enabled tool for detecting positive selection in biological evolution. *Studies in Health Technology and Informatics*, **2012**, 175, 59-68	0.5	5
35	Spatial predictions of phylogenetic diversity in conservation decision making. *Conservation Biology*, **2011**, 25, 1229-1239	6	32
34	Comparative performance of supertree algorithms in large data sets using the soapberry family (Sapindaceae) as a case study. *Systematic Biology*, **2011**, 60, 32-44	8.4	22
33	Adaptive divergence of ancient gene duplicates in the avian MHC class II beta. *Molecular Biology and Evolution*, **2010**, 27, 2360-74	8.3	57
32	Phylogenetic analyses of plastid and nuclear DNA sequences indicate a rapid late Miocene radiation of the temperate bamboo tribe Arundinarieae (Poaceae, Bambusoideae). *Plant Ecology and Diversity*, **2010**, 3, 109-120	2.2	30
31	The origins of C4 grasslands: integrating evolutionary and ecosystem science. *Science*, **2010**, 328, 587-91	33.3	698
30	Assessing rapid evolution in a changing environment. *Trends in Ecology and Evolution*, **2010**, 25, 692-8	10.9	72
29	Phylogenomics of C(4) photosynthesis in sedges (Cyperaceae): multiple appearances and genetic convergence. *Molecular Biology and Evolution*, **2009**, 26, 1909-19	8.3	115
28	Integrating phylogeny into studies of C4 variation in the grasses. *Plant Physiology*, **2009**, 149, 82-7	6.6	67
27	Evolutionary insights on C4 photosynthetic subtypes in grasses from genomics and phylogenetics. *Genome Biology and Evolution*, **2009**, 1, 221-30	3.9	53
26	Evolution of C(4) phosphoenolpyruvate carboxykinase in grasses, from genotype to phenotype. *Molecular Biology and Evolution*, **2009**, 26, 357-65	8.3	54

25	Non-monophyly of the woody bamboos (Bambuseae; Poaceae): a multi-gene region phylogenetic analysis of Bambusoideae s.s. *Journal of Plant Research*, **2009**, 122, 95-108	2.6	118
24	The origins and diversification of C4 grasses and savanna-adapted ungulates. *Global Change Biology* , **2009**, 15, 2397-2417	11.4	86
23	Oligocene CO2 decline promoted C4 photosynthesis in grasses. *Current Biology*, **2008**, 18, 37-43	6.3	268
22	Evolutionary patterns of MHC class II B in owls and their implications for the understanding of avian MHC evolution. *Molecular Biology and Evolution*, **2008**, 25, 1180-91	8.3	62
21	Evolutionary switch and genetic convergence on rbcL following the evolution of C4 photosynthesis. *Molecular Biology and Evolution*, **2008**, 25, 2361-8	8.3	102
20	Large multi-gene phylogenetic trees of the grasses (Poaceae): progress towards complete tribal and generic level sampling. *Molecular Phylogenetics and Evolution*, **2008**, 47, 488-505	4.1	194
19	Biogeographic origin and radiation of the Old World crocidurine shrews (Mammalia: Soricidae) inferred from mitochondrial and nuclear genes. *Molecular Phylogenetics and Evolution*, **2008**, 48, 953-63	4.1	54
18	Molecular phylogenetics of shrews (Mammalia: Soricidae) reveal timing of transcontinental colonizations. *Molecular Phylogenetics and Evolution*, **2007**, 44, 126-37	4.1	103
17	C4 Photosynthesis evolved in grasses via parallel adaptive genetic changes. *Current Biology*, **2007**, 17, 1241-7	6.3	159
16	DNA banking for plant breeding, biotechnology and biodiversity evaluation. *Journal of Plant Research*, **2007**, 120, 17-29	2.6	44
15	Large Trees, Supertrees, and Diversification of the Grass Family. *Aliso*, **2007**, 23, 248-258		9
14	Cadmium hyperaccumulation and genetic differentiation of Thlaspi caerulescens populations. *Biochemical Systematics and Ecology*, **2006**, 34, 667-677	1.4	32
13	Exotic taxa less related to native species are more invasive. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5841-5	11.5	361
12	Sympatric speciation in palms on an oceanic island. *Nature*, **2006**, 441, 210-3	50.4	467
11	60 million years of co-divergence in the fig-wasp symbiosis. *Proceedings of the Royal Society B: Biological Sciences*, **2005**, 272, 2593-9	4.4	162
10	Towards building the tree of life: a simulation study for all angiosperm genera. *Systematic Biology*, **2005**, 54, 183-96	8.4	24
9	Using Supertrees to Investigate Species Richness in Grasses and Flowering Plants. *Computational Biology*, **2004**, 461-486	0.7	8
8	Assessing internal support with large phylogenetic DNA matrices. *Molecular Phylogenetics and Evolution*, **2003**, 27, 528-39	4.1	61

7	Phylogenetics of Miscanthus, Saccharum and related genera (Saccharinae, Andropogoneae, Poaceae) based on DNA sequences from ITS nuclear ribosomal DNA and plastid trnLintron and trnL-F intergenic spacers. *Journal of Plant Research*, **2002**, 115, 381-92	2.6	203
6	Phylogeny reconstruction and functional constraints in organellar genomes: plastid atpB and rbcL sequences versus animal mitochondrion. *Systematic Biology*, **2002**, 51, 638-47	8.4	15
5	Building supertrees: an empirical assessment using the grass family (Poaceae). *Systematic Biology*, **2002**, 51, 136-50	8.4	82
4	Evolutionary history of New World monkeys revealed by molecular and fossil data		1
3	Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework		1
2	Functional diversification enabled grassy biomes to fill global climate space		6
1	On the effect of asymmetrical trait inheritance on models of trait evolution		1