

# Sylvain GlÃ©min

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

5,272  
citations

94433

37  
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102487

66  
g-index

76  
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76  
docs citations

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times ranked

6611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hunting for Beneficial Mutations: Conditioning on SIFT Scores When Estimating the Distribution of Fitness Effect of New Mutations. <i>Genome Biology and Evolution</i> , 2022, 14, .	2.5	13
2	What does the distribution of fitness effects of new mutations reflect? Insights from plants. <i>New Phytologist</i> , 2022, 233, 1613-1619.	7.3	6
3	Competitive ability depends on mating system and ploidy level across <i>Capsella</i> species. <i>Annals of Botany</i> , 2022, 129, 697-708.	2.9	2
4	The relative role of plasticity and demographic history in <i>Capsella bursa-pastoris</i> : a common garden experiment in Asia and Europe. <i>AoB PLANTS</i> , 2022, 14, .	2.3	4
5	Dioecy Is Associated with High Genetic Diversity and Adaptation Rates in the Plant Genus <i>Silene</i> . <i>Molecular Biology and Evolution</i> , 2021, 38, 805-818.	8.9	31
6	Balancing selection in self-fertilizing populations. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 1011-1029.	2.3	14
7	The ecology of the genome and the dynamics of the biological dark matter. <i>Journal of Theoretical Biology</i> , 2021, 518, 110641.	1.7	0
8	From Drift to Draft: How Much Do Beneficial Mutations Actually Contribute to Predictions of Ohta's Slightly Deleterious Model of Molecular Evolution?. <i>Genetics</i> , 2020, 214, 1005-1018.	2.9	25
9	Evolution of putative barrier loci at an intermediate stage of speciation with gene flow in campions ( <i>Silene</i> ). <i>Molecular Ecology</i> , 2020, 29, 3511-3525.	3.9	10
10	Shift in ecological strategy helps marginal populations of shepherd's purse ( <i>Capsella</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (b Sciences, 2020, 287, 20200463.	2.6	12
11	Genome Evolution in Outcrossing vs. Selfing vs. Asexual Species. <i>Methods in Molecular Biology</i> , 2019, 1910, 331-369.	0.9	51
12	Evolutionary transcriptomics reveals the origins of olives and the genomic changes associated with their domestication. <i>Plant Journal</i> , 2019, 100, 143-157.	5.7	64
13	Towards the new normal: Transcriptomic convergence and genomic legacy of the two subgenomes of an allopolyploid weed ( <i>Capsella bursa-pastoris</i> ). <i>PLoS Genetics</i> , 2019, 15, e1008131.	3.5	27
14	Pervasive hybridizations in the history of wheat relatives. <i>Science Advances</i> , 2019, 5, eaav9188.	10.3	79
15	Parental legacy, demography, and admixture influenced the evolution of the two subgenomes of the tetraploid <i>Capsella bursa-pastoris</i> (Brassicaceae). <i>PLoS Genetics</i> , 2019, 15, e1007949.	3.5	42
16	Estimating the Fitness Effect of Deleterious Mutations During the Two Phases of the Life Cycle: A New Method Applied to the Root-Rot Fungus <i>Heterobasidion parviporum</i> . <i>Genetics</i> , 2019, 211, 963-976.	2.9	5
17	Modeling a trait-dependent diversification process coupled with molecular evolution on a random species tree. <i>Journal of Theoretical Biology</i> , 2019, 461, 189-203.	1.7	3
18	Competitive ability of <i>Capsella</i> species with different mating systems and ploidy levels. <i>Annals of Botany</i> , 2018, 121, 1257-1264.	2.9	13

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19	Codon Usage Bias in Animals: Disentangling the Effects of Natural Selection, Effective Population Size, and GC-Biased Gene Conversion. <i>Molecular Biology and Evolution</i> , 2018, 35, 1092-1103.	8.9	111
20	Experimental Evidence for the Negative Effects of Self-Fertilization on the Adaptive Potential of Populations. <i>Current Biology</i> , 2017, 27, 237-242.	3.9	38
21	Domestication rewired gene expression and nucleotide diversity patterns in tomato. <i>Plant Journal</i> , 2017, 91, 631-645.	5.7	34
22	The Evolutionary Interplay between Adaptation and Self-Fertilization. <i>Trends in Genetics</i> , 2017, 33, 420-431.	6.7	64
23	Using the Ornstein-Uhlenbeck process to model the evolution of interacting populations. <i>Journal of Theoretical Biology</i> , 2017, 429, 35-45.	1.7	18
24	Genetic Diversity and the Efficacy of Purifying Selection across Plant and Animal Species. <i>Molecular Biology and Evolution</i> , 2017, 34, 1417-1428.	8.9	142
25	Inference of Distribution of Fitness Effects and Proportion of Adaptive Substitutions from Polymorphism Data. <i>Genetics</i> , 2017, 207, 1103-1119.	2.9	134
26	A large set of 26 new reference transcriptomes dedicated to comparative population genomics in crops and wild relatives. <i>Molecular Ecology Resources</i> , 2017, 17, 565-580.	4.8	53
27	Evolutionary forces affecting synonymous variations in plant genomes. <i>PLoS Genetics</i> , 2017, 13, e1006799.	3.5	36
28	The influence of population structure on gene expression and flowering time variation in the ubiquitous weed <i>apsella bursa-pastoris</i> (Brassicaceae). <i>Molecular Ecology</i> , 2016, 25, 1106-1121.	3.9	36
29	Limits to Adaptation in Partially Selfing Species. <i>Genetics</i> , 2016, 203, 959-974.	2.9	47
30	Introns Structure Patterns of Variation in Nucleotide Composition in <i>Arabidopsis thaliana</i> and Rice Protein-Coding Genes. <i>Genome Biology and Evolution</i> , 2015, 7, 2913-2928.	2.5	17
31	Molecular Evolution of Freshwater Snails with Contrasting Mating Systems. <i>Molecular Biology and Evolution</i> , 2015, 32, 2403-2416.	8.9	54
32	Quantification of GC-biased gene conversion in the human genome. <i>Genome Research</i> , 2015, 25, 1215-1228.	5.5	127
33	Inference of Purifying and Positive Selection in Three Subspecies of Chimpanzees ( <i>Pan troglodytes</i> ) from Exome Sequencing. <i>Genome Biology and Evolution</i> , 2015, 7, 1122-1132.	2.5	33
34	Extreme Recombination Frequencies Shape Genome Variation and Evolution in the Honeybee, <i>Apis mellifera</i> . <i>PLoS Genetics</i> , 2015, 11, e1005189.	3.5	98
35	The Red Queen Model of Recombination Hotspots Evolution in the Light of Archaic and Modern Human Genomes. <i>PLoS Genetics</i> , 2014, 10, e1004790.	3.5	62
36	Hitchhiking of Deleterious Alleles and the Cost of Adaptation in Partially Selfing Species. <i>Genetics</i> , 2014, 196, 281-293.	2.9	40

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37	Transcriptome population genomics reveals severe bottleneck and domestication cost in the African rice ( <i>Oryza glaberrima</i> ). <i>Molecular Ecology</i> , 2014, 23, 2210-2227.	3.9	75
38	GC content evolution in coding regions of angiosperm genomes: a unifying hypothesis. <i>Trends in Genetics</i> , 2014, 30, 263-270.	6.7	79
39	The Rate of Molecular Adaptation in a Changing Environment. <i>Molecular Biology and Evolution</i> , 2013, 30, 1292-1301.	8.9	51
40	ADAPTATION AND MALADAPTATION IN SELFING AND OUTCROSSING SPECIES: NEW MUTATIONS VERSUS STANDING VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 225-240.	2.3	128
41	Male-specific DNA markers provide genetic evidence of an XY chromosome system, a recombination arrest and allow the tracing of paternal lineages in date palm. <i>New Phytologist</i> , 2013, 197, 409-415.	7.3	88
42	Reference-Free Population Genomics from Next-Generation Transcriptome Data and the Vertebrate-Invertebrate Gap. <i>PLoS Genetics</i> , 2013, 9, e1003457.	3.5	157
43	Patterns and Evolution of Nucleotide Landscapes in Seed Plants. <i>Plant Cell</i> , 2012, 24, 1379-1397.	6.6	88
44	Extinction and fixation times with dominance and inbreeding. <i>Theoretical Population Biology</i> , 2012, 81, 310-316.	1.1	30
45	Multigenic phylogeny and analysis of tree incongruences in Triticeae (Poaceae). <i>BMC Evolutionary Biology</i> , 2011, 11, 181.	3.2	72
46	COMPLEXITY, PLEIOTROPY, AND THE FITNESS EFFECT OF MUTATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 1559-1571.	2.3	57
47	GC-Biased Gene Conversion Impacts Ribosomal DNA Evolution in Vertebrates, Angiosperms, and Other Eukaryotes. <i>Molecular Biology and Evolution</i> , 2011, 28, 2561-2575.	8.9	53
48	GC-Biased Gene Conversion and Selection Affect GC Content in the <i>Oryza</i> Genus (rice). <i>Molecular Biology and Evolution</i> , 2011, 28, 2695-2706.	8.9	83
49	Surprising Fitness Consequences of GC-Biased Gene Conversion. II. Heterosis. <i>Genetics</i> , 2011, 187, 217-227.	2.9	10
50	Interaction of climate, demography and genetics: a ten-year study of <i>Brassica insularis</i> , a narrow endemic Mediterranean species. <i>Conservation Genetics</i> , 2010, 11, 509-526.	1.5	12
51	Surprising Fitness Consequences of GC-Biased Gene Conversion: I. Mutation Load and Inbreeding Depression. <i>Genetics</i> , 2010, 185, 939-959.	2.9	49
52	Mitochondrial whims: metabolic rate, longevity and the rate of molecular evolution. <i>Biology Letters</i> , 2009, 5, 413-416.	2.3	90
53	GC-biased gene conversion promotes the fixation of deleterious amino acid changes in primates. <i>Trends in Genetics</i> , 2009, 25, 1-5.	6.7	167
54	A comparative view of the evolution of grasses under domestication. <i>New Phytologist</i> , 2009, 183, 273-290.	7.3	193

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55	Consequences of Low Mate Availability in the Rare Self-Incompatible Species <i>Brassica insularis</i> . <i>Conservation Biology</i> , 2008, 22, 216-221.	4.7	33
56	Determination of Mitochondrial Genetic Diversity in Mammals. <i>Genetics</i> , 2008, 178, 351-361.	2.9	107
57	Mating Systems and the Efficacy of Selection at the Molecular Level. <i>Genetics</i> , 2007, 177, 905-916.	2.9	98
58	Strong Variations of Mitochondrial Mutation Rate across Mammals--the Longevity Hypothesis. <i>Molecular Biology and Evolution</i> , 2007, 25, 120-130.	8.9	394
59	Population Size Does Not Influence Mitochondrial Genetic Diversity in Animals. <i>Science</i> , 2006, 312, 570-572.	12.6	773
60	Bio++: a set of C++ libraries for sequence analysis, phylogenetics, molecular evolution and population genetics. <i>BMC Bioinformatics</i> , 2006, 7, 188.	2.6	101
61	Impact of mating systems on patterns of sequence polymorphism in flowering plants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 3011-3019.	2.6	249
62	Lethals in subdivided populations. <i>Genetical Research</i> , 2005, 86, 41-51.	0.9	13
63	Plant self-Incompatibility systems: a molecular evolutionary perspective. <i>New Phytologist</i> , 2005, 168, 61-69.	7.3	136
64	Balancing Selection in the Wild: Testing Population Genetics Theory of Self-Incompatibility in the Rare Species <i>Brassica insularis</i> . <i>Genetics</i> , 2005, 171, 279-289.	2.9	74
65	When Genes Go to Sleep: The Population Genetic Consequences of Seed Dormancy and Monocarpic Perenniality. <i>American Naturalist</i> , 2004, 163, 295-311.	2.1	87
66	Patterns of Inbreeding Depression and Architecture of the Load in Subdivided Populations. <i>Genetics</i> , 2003, 165, 2193-2212.	2.9	100
67	Inbreeding Depression in Small Populations of Self-Incompatible Plants. <i>Genetics</i> , 2001, 159, 1217-1229.	2.9	63