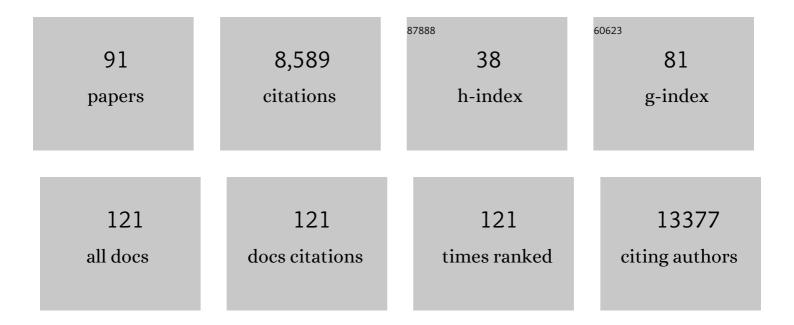
## Sebastian Duchene

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3766362/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Tightly Constrained Genome Reduction and Relaxation of Purifying Selection during Secondary Plastid Endosymbiosis. Molecular Biology and Evolution, 2022, 39, .	8.9	5
2	Assessment of Coronavirus Disease 2019 Intervention Strategies in the Nordic Countries Using Genomic Epidemiology. Open Forum Infectious Diseases, 2022, 9, ofab665.	0.9	0
3	The Emergence of SARS-CoV-2 Variants of Concern Is Driven by Acceleration of the Substitution Rate. Molecular Biology and Evolution, 2022, 39, .	8.9	78
4	Phylodynamic Inference of Bacterial Outbreak Parameters Using Nanopore Sequencing. Molecular Biology and Evolution, 2022, 39, .	8.9	9
5	Characterisation of Treponema pallidum lineages within the contemporary syphilis outbreak in Australia: a genomic epidemiological analysis. Lancet Microbe, The, 2022, 3, e417-e426.	7.3	19
6	Real-Time and Remote MCMC Trace Inspection with Beastiary. Molecular Biology and Evolution, 2022, 39, .	8.9	5
7	The International Virus Bioinformatics Meeting 2022. Viruses, 2022, 14, 973.	3.3	3
8	A 16th century Escherichia coli draft genome associated with an opportunistic bile infection. Communications Biology, 2022, 5, .	4.4	2
9	Genomic epidemiology of Salmonella Typhi in Central Division, Fiji, 2012 to 2016. The Lancet Regional Health - Western Pacific, 2022, 24, 100488.	2.9	6
10	The Impacts of Low Diversity Sequence Data on Phylodynamic Inference during an Emerging Epidemic. Viruses, 2021, 13, 79.	3.3	2
11	Infectious disease phylodynamics with occurrence data. Methods in Ecology and Evolution, 2021, 12, 1498-1507.	5.2	14
12	Exploring the evolution and epidemiology of European CC1-MRSA-IV: tracking a multidrug-resistant community-associated meticillin-resistant Staphylococcus aureus clone. Microbial Genomics, 2021, 7, .	2.0	10
13	Evolutionary dynamics of multidrug resistant Salmonella enterica serovar 4,[5],12:i:- in Australia. Nature Communications, 2021, 12, 4786.	12.8	35
14	Genomics-informed responses in the elimination of COVID-19 in Victoria, Australia: an observational, genomic epidemiological study. Lancet Public Health, The, 2021, 6, e547-e556.	10.0	53
15	The first wave of the COVID-19 epidemic in Spain was associated with early introductions and fast spread of a dominating genetic variant. Nature Genetics, 2021, 53, 1405-1414.	21.4	35
16	Development of Phylodynamic Methods for Bacterial Pathogens. Trends in Microbiology, 2021, 29, 788-797.	7.7	26
17	Multiple introductions of multidrug-resistant typhoid associated with acute infection and asymptomatic carriage, Kenya. ELife, 2021, 10, .	6.0	29
18	The impact of public health interventions in the Nordic countries during the first year of SARS-CoV-2 transmission and evolution. Eurosurveillance, 2021, 26, .	7.0	8

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19	SNPPar: identifying convergent evolution and other homoplasies from microbial whole-genome alignments. Microbial Genomics, 2021, 7, .	2.0	5
20	Linking Branch Lengths across Sets of Loci Provides the Highest Statistical Support for Phylogenetic Inference. Molecular Biology and Evolution, 2020, 37, 1202-1210.	8.9	42
21	Temporal signal and the phylodynamic threshold of SARS-CoV-2. Virus Evolution, 2020, 6, veaa061.	4.9	317
22	The Recovery, Interpretation and Use of Ancient Pathogen Genomes. Current Biology, 2020, 30, R1215-R1231.	3.9	33
23	Bayesian Evaluation of Temporal Signal in Measurably Evolving Populations. Molecular Biology and Evolution, 2020, 37, 3363-3379.	8.9	81
24	Tracking the COVID-19 pandemic in Australia using genomics. Nature Communications, 2020, 11, 4376.	12.8	152
25	Genomic Epidemiology of the First Wave of SARS-CoV-2 in Italy. Viruses, 2020, 12, 1438.	3.3	39
26	Genomic epidemiology reveals transmission patterns and dynamics of SARS-CoV-2 in Aotearoa New Zealand. Nature Communications, 2020, 11, 6351.	12.8	100
27	Dating the emergence of human pathogens. Science, 2020, 368, 1310-1311.	12.6	8
28	Estimating Evolutionary Rates and Timescales from Time-Stamped Data. , 2020, , 157-174.		3
29	Phylodynamic Model Adequacy Using Posterior Predictive Simulations. Systematic Biology, 2019, 68, 358-364.	5.6	25
30	The molecular clock of Mycobacterium tuberculosis. PLoS Pathogens, 2019, 15, e1008067.	4.7	107
31	The Asian Lineage of Zika Virus: Transmission and Evolution in Asia and the Americas. Virologica Sinica, 2019, 34, 1-8.	3.0	30
32	Atlas of group A streptococcal vaccine candidates compiled using large-scale comparative genomics. Nature Genetics, 2019, 51, 1035-1043.	21.4	120
33	Genome Analysis of Coxsackievirus A4 Isolates From Hand, Foot, and Mouth Disease Cases in Shandong, China. Frontiers in Microbiology, 2019, 10, 1001.	3.5	12
34	Limited Sustained Local Transmission of HIV-1 CRF01_AE in New South Wales, Australia. Viruses, 2019, 11, 482.	3.3	4
35	Can Sequence Phylogenies Safely Infer the Origin of the Global Virome?. MBio, 2019, 10, .	4.1	37
36	Distinct evolutionary dynamics of horizontal gene transfer in drug resistant and virulent clones of Klebsiella pneumoniae. PLoS Genetics, 2019, 15, e1008114.	3.5	228

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37	Tracing Ancient Human Migrations into Sahul Using Hepatitis B Virus Genomes. Molecular Biology and Evolution, 2019, 36, 942-954.	8.9	26
38	BEAST 2.5: An advanced software platform for Bayesian evolutionary analysis. PLoS Computational Biology, 2019, 15, e1006650.	3.2	2,484
39	Evolutionary stasis of viruses?. Nature Reviews Microbiology, 2019, 17, 329-329.	28.6	8
40	Evolution and Global Transmission of a Multidrug-Resistant, Community-Associated Methicillin-Resistant Staphylococcus aureus Lineage from the Indian Subcontinent. MBio, 2019, 10, .	4.1	50
41	Estimating evolutionary rates in giant viruses using ancient genomes. Virus Evolution, 2018, 4, vey006.	4.9	7
42	PhyloMAd: efficient assessment of phylogenomic model adequacy. Bioinformatics, 2018, 34, 2300-2301.	4.1	46
43	Understanding dengue virus evolution to support epidemic surveillance and counter-measure development. Infection, Genetics and Evolution, 2018, 62, 279-295.	2.3	53
44	Analysis of Phylogenomic Tree Space Resolves Relationships Among Marsupial Families. Systematic Biology, 2018, 67, 400-412.	5.6	85
45	Bayesian molecular dating: opening up the black box. Biological Reviews, 2018, 93, 1165-1191.	10.4	128
46	The phylogeography and incidence of multi-drug resistant typhoid fever in sub-Saharan Africa. Nature Communications, 2018, 9, 5094.	12.8	98
47	A comparison of methods for estimating substitution rates from ancient DNA sequence data. BMC Evolutionary Biology, 2018, 18, 70.	3.2	23
48	Differences in Performance among Test Statistics for Assessing Phylogenomic Model Adequacy. Genome Biology and Evolution, 2018, 10, 1375-1388.	2.5	13
49	Laboratory and molecular surveillance of paediatric typhoidal Salmonella in Nepal: Antimicrobial resistance and implications for vaccine policy. PLoS Neglected Tropical Diseases, 2018, 12, e0006408.	3.0	70
50	Inferring demographic parameters in bacterial genomic data using Bayesian and hybrid phylogenetic methods. BMC Evolutionary Biology, 2018, 18, 95.	3.2	16
51	Population genomics of hypervirulent Klebsiella pneumoniae clonal-group 23 reveals early emergence and rapid global dissemination. Nature Communications, 2018, 9, 2703.	12.8	205
52	Pan-genome Analysis of Ancient and Modern Salmonella enterica Demonstrates Genomic Stability of the Invasive Para C Lineage for Millennia. Current Biology, 2018, 28, 2420-2428.e10.	3.9	65
53	Continental synchronicity of human influenza virus epidemics despite climactic variation. PLoS Pathogens, 2018, 14, e1006780.	4.7	38
54	The paradox of HBV evolution as revealed from a 16th century mummy. PLoS Pathogens, 2018, 14, e1006750.	4.7	66

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55	Neanderthal behaviour, diet, and disease inferred from ancient DNA in dental calculus. Nature, 2017, 544, 357-361.	27.8	398
56	New Statistical Criteria Detect Phylogenetic Bias Caused by Compositional Heterogeneity. Molecular Biology and Evolution, 2017, 34, 1529-1534.	8.9	35
57	Comparative analysis estimates the relative frequencies of co-divergence and cross-species transmission within viral families. PLoS Pathogens, 2017, 13, e1006215.	4.7	224
58	The impacts of drift and selection on genomic evolution in insects. PeerJ, 2017, 5, e3241.	2.0	6
59	Genome-scale rates of evolutionary change in bacteria. Microbial Genomics, 2016, 2, e000094.	2.0	224
60	Cross-validation to select Bayesian hierarchical models in phylogenetics. BMC Evolutionary Biology, 2016, 16, 115.	3.2	19
61	Large-Scale Phylogenomic Analysis Reveals the Complex Evolutionary History of Rabies Virus in Multiple Carnivore Hosts. PLoS Pathogens, 2016, 12, e1006041.	4.7	147
62	17th Century Variola Virus Reveals the Recent History of Smallpox. Current Biology, 2016, 26, 3407-3412.	3.9	197
63	Benign Rabbit Caliciviruses Exhibit Evolutionary Dynamics Similar to Those of Their Virulent Relatives. Journal of Virology, 2016, 90, 9317-9329.	3.4	36
64	Estimating evolutionary rates using time-structured data: a general comparison of phylogenetic methods. Bioinformatics, 2016, 32, 3375-3379.	4.1	38
65	Evolution, Expression, and Function of Nonneuronal Ligand-Gated Chloride Channels in <i>Drosophila melanogaster</i> . G3: Genes, Genomes, Genetics, 2016, 6, 2003-2012.	1.8	13
66	Estimating the number and assignment of clock models in analyses of multigene datasets. Bioinformatics, 2016, 32, 1281-1285.	4.1	13
67	Substitution Model Adequacy and Assessing the Reliability of Estimates of Virus Evolutionary Rates and Time Scales. Molecular Biology and Evolution, 2016, 33, 255-267.	8.9	28
68	Phylogenetic uncertainty can bias the number of evolutionary transitions estimated from ancestral state reconstruction methods. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 517-524.	1.3	39
69	Tree imbalance causes a bias in phylogenetic estimation of evolutionary timescales using heterochronous sequences. Molecular Ecology Resources, 2015, 15, 785-794.	4.8	39
70	Geographic and temporal dynamics of a global radiation and diversification in the killer whale. Molecular Ecology, 2015, 24, 3964-3979.	3.9	74
71	The Performance of the Date-Randomization Test in Phylogenetic Analyses of Time-Structured Virus Data. Molecular Biology and Evolution, 2015, 32, 1895-1906.	8.9	172
72	Timeâ€dependent estimates of molecular evolutionary rates: evidence and causes. Molecular Ecology, 2015, 24, 6007-6012.	3.9	59

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73	Evaluating the Adequacy of Molecular Clock Models Using Posterior Predictive Simulations. Molecular Biology and Evolution, 2015, 32, 2986-2995.	8.9	46
74	Mammalian genome evolution is governed by multiple pacemakers. Bioinformatics, 2015, 31, 2061-2065.	4.1	17
75	Declining transition/transversion ratios through time reveal limitations to the accuracy of nucleotide substitution models. BMC Evolutionary Biology, 2015, 15, 36.	3.2	73
76	Comment on "Phylogenomics resolves the timing and pattern of insect evolutionâ€: Science, 2015, 349, 487-487.	12.6	69
77	Simulating and detecting autocorrelation of molecular evolutionary rates among lineages. Molecular Ecology Resources, 2015, 15, 688-696.	4.8	87
78	Initial Evidence for Adaptive Selection on the NADH Subunit Two of Freshwater Dolphins by Analyses of Mitochondrial Genomes. PLoS ONE, 2015, 10, e0123543.	2.5	28
79	The Temporal Evolution and Global Spread of Cauliflower mosaic virus, a Plant Pararetrovirus. PLoS ONE, 2014, 9, e85641.	2.5	51
80	ClockstaR: choosing the number of relaxed-clock models in molecular phylogenetic analysis. Bioinformatics, 2014, 30, 1017-1019.	4.1	54
81	Analyses of evolutionary dynamics in viruses are hindered by a time-dependent bias in rate estimates. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140732.	2.6	166
82	Molecularâ€clock methods for estimating evolutionary rates and timescales. Molecular Ecology, 2014, 23, 5947-5965.	3.9	290
83	Using multiple relaxed-clock models to estimate evolutionary timescales from DNA sequence data. Molecular Phylogenetics and Evolution, 2014, 77, 65-70.	2.7	28
84	The impact of calibration and clock-model choice on molecular estimates of divergence times. Molecular Phylogenetics and Evolution, 2014, 78, 277-289.	2.7	135
85	Turnip Mosaic Potyvirus Probably First Spread to Eurasian Brassica Crops from Wild Orchids about 1000 Years Ago. PLoS ONE, 2013, 8, e55336.	2.5	81
86	Phylogeography and Sex-Biased Dispersal across Riverine Manatee Populations (Trichechus inunguis) Tj ETQqO O	0 rgBT /C	verlgck 10 Tf
87	Phylogeography, genetic diversity and population structure of common bottlenose dolphins in the <scp>W</scp> ider <scp>C</scp> aribbean inferred from analyses of mitochondrial <scp>DNA</scp> control region sequences and microsatellite loci: conservation and management implications. Animal Conservation. 2012. 15. 95-112.	2.9	28
88	Marine turtle mitogenome phylogenetics and evolution. Molecular Phylogenetics and Evolution, 2012, 65, 241-250.	2.7	83
89	Mitogenome Phylogenetics: The Impact of Using Single Regions and Partitioning Schemes on Topology, Substitution Rate and Divergence Time Estimation. PLoS ONE, 2011, 6, e27138.	2.5	128

<sup>90</sup> Genomic Characterisation Reveals a Dominant Lineage of SARS-CoV-2 in Papua New Guinea. Virus 4.9 0 Evolution, 0, , .

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91	Niche-specific genome degradation and convergent evolution shaping Staphylococcus aureus adaptation during severe infections. ELife, 0, 11, .	6.0	18