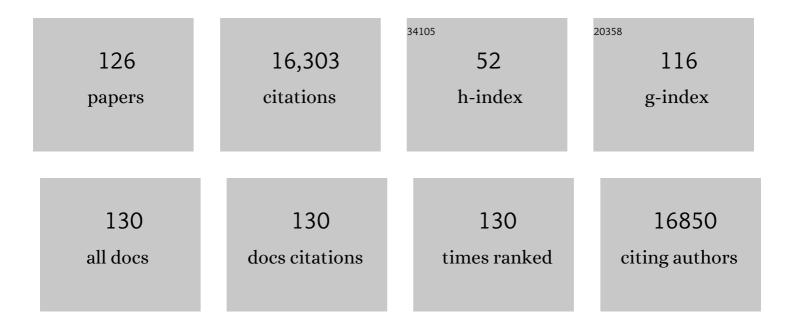
## Simon Frost

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	HyPhy: hypothesis testing using phylogenies. Bioinformatics, 2005, 21, 676-679.	4.1	2,599
2	Not So Different After All: A Comparison of Methods for Detecting Amino Acid Sites Under Selection. Molecular Biology and Evolution, 2005, 22, 1208-1222.	8.9	1,965
3	Datamonkey: rapid detection of selective pressure on individual sites of codon alignments. Bioinformatics, 2005, 21, 2531-2533.	4.1	1,223
4	Datamonkey 2010: a suite of phylogenetic analysis tools for evolutionary biology. Bioinformatics, 2010, 26, 2455-2457.	4.1	1,158
5	Automated Phylogenetic Detection of Recombination Using a Genetic Algorithm. Molecular Biology and Evolution, 2006, 23, 1891-1901.	8.9	866
6	GARD: a genetic algorithm for recombination detection. Bioinformatics, 2006, 22, 3096-3098.	4.1	750
7	Modeling infectious disease dynamics in the complex landscape of global health. Science, 2015, 347, aaa4339.	12.6	492
8	A Random Effects Branch-Site Model for Detecting Episodic Diversifying Selection. Molecular Biology and Evolution, 2011, 28, 3033-3043.	8.9	383
9	HyPhy 2.5—A Customizable Platform for Evolutionary Hypothesis Testing Using Phylogenies. Molecular Biology and Evolution, 2020, 37, 295-299.	8.9	342
10	Neutralizing antibody responses drive the evolution of human immunodeficiency virus type 1 envelope during recent HIV infection. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18514-18519.	7.1	313
11	Evaluation of Respondent-driven Sampling. Epidemiology, 2012, 23, 138-147.	2.7	229
12	Adaptation to Different Human Populations by HIV-1 Revealed by Codon-Based Analyses. PLoS Computational Biology, 2006, 2, e62.	3.2	209
13	Phylodynamics of Infectious Disease Epidemics. Genetics, 2009, 183, 1421-1430.	2.9	200
14	Persistence of Transmitted Drug Resistance among Subjects with Primary Human Immunodeficiency Virus Infection. Journal of Virology, 2008, 82, 5510-5518.	3.4	192
15	Evolution of Envelope Sequences of Human Immunodeficiency Virus Type 1 in Cellular Reservoirs in the Setting of Potent Antiviral Therapy. Journal of Virology, 1999, 73, 9404-9412.	3.4	187
16	A Genetic Algorithm Approach to Detecting Lineage-Specific Variation in Selection Pressure. Molecular Biology and Evolution, 2005, 22, 478-485.	8.9	178
17	Fast hierarchical Bayesian analysis of population structure. Nucleic Acids Research, 2019, 47, 5539-5549.	14.5	173
18	Characterization of Human Immunodeficiency Virus Type 1 (HIV-1) Envelope Variation and Neutralizing Antibody Responses during Transmission of HIV-1 Subtype B. Journal of Virology, 2005, 79, 6523-6527.	3.4	171

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19	Transmission Fitness of Drugâ€Resistant Human Immunodeficiency Virus and the Prevalence of Resistance in the Antiretroviralâ€Treated Population. Journal of Infectious Diseases, 2003, 187, 683-686.	4.0	162
20	Evolution of Lamivudine Resistance in Human Immunodeficiency Virus Type 1-Infected Individuals: the Relative Roles of Drift and Selection. Journal of Virology, 2000, 74, 6262-6268.	3.4	152
21	An Evolutionary Model-Based Algorithm for Accurate Phylogenetic Breakpoint Mapping and Subtype Prediction in HIV-1. PLoS Computational Biology, 2009, 5, e1000581.	3.2	151
22	Individual and Network Factors Associated With Prevalent Hepatitis C Infection Among Rural Appalachian Injection Drug Users. American Journal of Public Health, 2013, 103, e44-e52.	2.7	140
23	HIV dynamics and T-cell immunity after three structured treatment interruptions in chronic HIV-1 infection. Aids, 2001, 15, F19-F27.	2.2	135
24	Eight challenges in phylodynamic inference. Epidemics, 2015, 10, 88-92.	3.0	131
25	Viral phylodynamics and the search for an â€~effective number of infections'. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1879-1890.	4.0	123
26	Respondent-Driven Sampling of Injection Drug Users in Two U.S.–Mexico Border Cities: Recruitment Dynamics and Impact on Estimates of HIV and Syphilis Prevalence. Journal of Urban Health, 2006, 83, 83-97.	3.6	120
27	CCL3L1-CCR5 genotype influences durability of immune recovery during antiretroviral therapy of HIV-1–infected individuals. Nature Medicine, 2008, 14, 413-420.	30.7	118
28	Syringe possession arrests are associated with receptive syringe sharing in two Mexico–US border cities. Addiction, 2008, 103, 101-108.	3.3	118
29	A public health model for the molecular surveillance of HIV transmission in San Diego, California. Aids, 2009, 23, 225-232.	2.2	111
30	Immune-driven recombination and loss of control after HIV superinfection. Journal of Experimental Medicine, 2008, 205, 1789-1796.	8.5	106
31	A Maximum Likelihood Method for Detecting Directional Evolution in Protein Sequences and Its Application to Influenza A Virus. Molecular Biology and Evolution, 2008, 25, 1809-1824.	8.9	106
32	An Evolutionary-Network Model Reveals Stratified Interactions in the V3 Loop of the HIV-1 Envelope. PLoS Computational Biology, 2007, 3, e231.	3.2	103
33	Comparative Study of Methods for Detecting Sequence Compartmentalization in Human Immunodeficiency Virus Type 1. Journal of Virology, 2007, 81, 6643-6651.	3.4	97
34	Lack of neutralizing antibody response to HIV-1 predisposes to superinfection. Virology, 2006, 355, 1-5.	2.4	94
35	Amprenavir-resistant HIV-1 exhibits lopinavir cross-resistance and reduced replication capacity. Aids, 2002, 16, 1009-1017.	2.2	92
36	Simple Epidemiological Dynamics Explain Phylogenetic Clustering of HIV from Patients with Recent Infection. PLoS Computational Biology, 2012, 8, e1002552.	3.2	89

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37	A Dirichlet process model for detecting positive selection in protein-coding DNA sequences. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6263-6268.	7.1	87
38	Selection of drug-resistant HIV-1 mutants in response to repeated structured treatment interruptions. Aids, 2002, 16, 895-899.	2.2	85
39	Spidermonkey: rapid detection of co-evolving sites using Bayesian graphical models. Bioinformatics, 2008, 24, 1949-1950.	4.1	75
40	Detecting Signatures of Selection from DNA Sequences Using Datamonkey. Methods in Molecular Biology, 2009, 537, 163-183.	0.9	71
41	Evolution of the interferon alpha gene family in eutherian mammals. Gene, 2007, 397, 38-50.	2.2	68
42	Inferring the Source of Transmission with Phylogenetic Data. PLoS Computational Biology, 2013, 9, e1003397.	3.2	65
43	Evolutionary Interactions between N-Linked Glycosylation Sites in the HIV-1 Envelope. PLoS Computational Biology, 2007, 3, e11.	3.2	63
44	Respondent driven sampling—where we are and where should we be going?: TableÂ1. Sexually Transmitted Infections, 2012, 88, 397-399.	1.9	62
45	Longâ€Term Persistence of Transmitted HIV Drug Resistance in Male Genital Tract Secretions: Implications for Secondary Transmission. Journal of Infectious Diseases, 2007, 196, 356-360.	4.0	61
46	Modelling tree shape and structure in viral phylodynamics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120208.	4.0	61
47	Phylogenetic analysis of GBV-C/hepatitis G virus. Journal of General Virology, 2000, 81, 769-780.	2.9	61
48	A Simple Hierarchical Approach to Modeling Distributions of Substitution Rates. Molecular Biology and Evolution, 2005, 22, 223-234.	8.9	59
49	Phylogenetic Analysis of Population-Based and Deep Sequencing Data to Identify Coevolving Sites in the nef Gene of HIV-1. Molecular Biology and Evolution, 2010, 27, 819-832.	8.9	59
50	Neutral Theory and Rapidly Evolving Viral Pathogens. Molecular Biology and Evolution, 2018, 35, 1348-1354.	8.9	58
51	Evolutionary Fingerprinting of Genes. Molecular Biology and Evolution, 2010, 27, 520-536.	8.9	57
52	Hepatitis C virus and alanine aminotransferase kinetics following B-lymphocyte depletion with rituximab: evidence for a significant role of humoral immunity in the control of viremia in chronic HCV liver disease. Blood, 2007, 109, 845-846.	1.4	55
53	Using Respondent-Driven Sampling in a Hidden Population at Risk of HIV Infection: Who Do HIV-Positive Recruiters Recruit?. Sexually Transmitted Diseases, 2009, 36, 750-756.	1.7	55
54	Deep Molecular Characterization of HIV-1 Dynamics under Suppressive HAART. PLoS Pathogens, 2011, 7, e1002314.	4.7	55

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55	Beyond Bushmeat: Animal Contact, Injury, and Zoonotic Disease Risk in Western Uganda. EcoHealth, 2014, 11, 534-543.	2.0	54
56	Sampling through time and phylodynamic inference with coalescent and birth–death models. Journal of the Royal Society Interface, 2014, 11, 20140945.	3.4	53
57	Phylogenetic Tools for Generalized HIV-1 Epidemics: Findings from the PANGEA-HIV Methods Comparison. Molecular Biology and Evolution, 2017, 34, 185-203.	8.9	53
58	Viral Dynamics during Structured Treatment Interruptions of Chronic Human Immunodeficiency Virus Type 1 Infection. Journal of Virology, 2002, 76, 968-979.	3.4	52
59	Adaptation to Human Populations Is Revealed by Within-Host Polymorphisms in HIV-1 and Hepatitis C Virus. PLoS Pathogens, 2007, 3, e45.	4.7	51
60	Lowâ€level plasma HIVs in patients on prolonged suppressive highly active antiretroviral therapy are produced mostly by cells other than CD4 Tâ€cells. Journal of Medical Virology, 2009, 81, 9-15.	5.0	47
61	Using sexual affiliation networks to describe the sexual structure of a population. Sexually Transmitted Infections, 2007, 83, i37-i42.	1.9	46
62	High-Risk Sexual and Drug Using Behaviors Among Male Injection Drug Users Who Have Sex With Men in 2 Mexico-US Border Cities. Sexually Transmitted Diseases, 2008, 35, 243-249.	1.7	44
63	Mixed Adjuvant Formulations Reveal a New Combination That Elicit Antibody Response Comparable to Freund's Adjuvants. PLoS ONE, 2012, 7, e35083.	2.5	44
64	OutbreakTools: A new platform for disease outbreak analysis using the R software. Epidemics, 2014, 7, 28-34.	3.0	37
65	Biased phylodynamic inferences from analysing clusters of viral sequences. Virus Evolution, 2017, 3, vex020.	4.9	37
66	Computational analysis and identification of amino acid sites in dengue E proteins relevant to development of diagnostics and vaccines. Virus Genes, 2007, 35, 175-186.	1.6	34
67	Pleocytosis is associated with disruption of HIV compartmentalization between blood and cerebral spinal fluid viral populations. Virology, 2009, 385, 204-208.	2.4	29
68	Evaluation of the role of location and distance in recruitment in respondent-driven sampling. International Journal of Health Geographics, 2011, 10, 56.	2.5	29
69	Can Non-lytic CD8+ T Cells Drive HIV-1 Escape?. PLoS Pathogens, 2013, 9, e1003656.	4.7	29
70	HIV Prevalence and Demographic Determinants of Unprotected Anal Sex and HIV Testing Among Men Who Have Sex with Men in Beirut, Lebanon. Archives of Sexual Behavior, 2014, 43, 779-788.	1.9	29
71	Transmitted Drug Resistance in the CFAR Network of Integrated Clinical Systems Cohort: Prevalence and Effects on Pre-Therapy CD4 and Viral Load. PLoS ONE, 2011, 6, e21189.	2.5	28
72	Measuring Asymmetry in Time-Stamped Phylogenies. PLoS Computational Biology, 2015, 11, e1004312.	3.2	28

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73	Respondent Driven Sampling: Determinants of Recruitment and a Method to Improve Point Estimation. PLoS ONE, 2013, 8, e78402.	2.5	27
74	Genotype-Specific Evolution of Hepatitis E Virus. Journal of Virology, 2017, 91, .	3.4	27
75	Viral Evolution during Structured Treatment Interruptions in Chronically Human Immunodeficiency Virus-Infected Individuals. Journal of Virology, 2002, 76, 12344-12348.	3.4	26
76	Epidemiological bridging by injection drug use drives an early HIV epidemic. Epidemics, 2010, 2, 155-164.	3.0	26
77	Identification of Hidden Population Structure in Time-Scaled Phylogenies. Systematic Biology, 2020, 69, 884-896.	5.6	26
78	Assessment of a multiplex PCR and Nanopore-based method for dengue virus sequencing in Indonesia. Virology Journal, 2020, 17, 24.	3.4	26
79	Genetic Basis of Hypersusceptibility to Protease Inhibitors and Low Replicative Capacity of Human Immunodeficiency Virus Type 1 Strains in Primary Infection. Journal of Virology, 2004, 78, 2242-2246.	3.4	23
80	Herpes Simplex Virus Type 2 Infection Does Not Influence Viral Dynamics during Early HIVâ€1 Infection. Journal of Infectious Diseases, 2007, 195, 1270-1277.	4.0	21
81	Rapid social network assessment for predicting HIV and STI risk among men attending bars and clubs in San Diego, California. Sexually Transmitted Infections, 2010, 86, iii17-iii23.	1.9	21
82	Characteristics of Recently HIV-Infected Men Who Use the Internet to Find Male Sex Partners and Sexual Practices With Those Partners. Journal of Acquired Immune Deficiency Syndromes (1999), 2006, 43, 582-587.	2.1	21
83	Mapping Protease Inhibitor Resistance to Human Immunodeficiency Virus Type 1 Sequence Polymorphisms within Patients. Journal of Virology, 2007, 81, 13598-13607.	3.4	20
84	Assigning and visualizing germline genes in antibody repertoires. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140240.	4.0	20
85	Estimating selection pressures on HIVâ€l using phylogenetic likelihood models. Statistics in Medicine, 2008, 27, 4779-4789.	1.6	19
86	Antibody responses in primary HIV-1 infection. Current Opinion in HIV and AIDS, 2008, 3, 45-51.	3.8	18
87	Capture-recapture methods and respondent-driven sampling: their potential and limitations. Sexually Transmitted Infections, 2011, 87, 267-268.	1.9	18
88	Understanding Drivers of Phylogenetic Clustering in Molecular Epidemiological Studies of HIV. Journal of Infectious Diseases, 2015, 211, 856-858.	4.0	18
89	HIV-1 Full-Genome Phylogenetics of Generalized Epidemics in Sub-Saharan Africa: Impact of Missing Nucleotide Characters in Next-Generation Sequences. AIDS Research and Human Retroviruses, 2017, 33, 1083-1098.	1.1	18
90	Evolutionary Model Selection with a Genetic Algorithm: A Case Study Using Stem RNA. Molecular Biology and Evolution, 2006, 24, 159-170.	8.9	17

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91	Disease control across urban–rural gradients. Journal of the Royal Society Interface, 2020, 17, 20200775.	3.4	16
92	Molecular Evolution Analysis of the Human Immunodeficiency Virus Type 1 Envelope in Simian/Human Immunodeficiency Virus-Infected Macaques: Implications for Challenge Dose Selection. Journal of Virology, 2011, 85, 10332-10345.	3.4	15
93	The changing molecular epidemiology of HIV in the Philippines. International Journal of Infectious Diseases, 2017, 61, 44-50.	3.3	15
94	Adaptation of avian influenza virus to a swine host. Virus Evolution, 2017, 3, vex007.	4.9	15
95	Phenotypic Hypersusceptibility to Multiple Protease Inhibitors and Low Replicative Capacity in Patients Who Are Chronically Infected with Human Immunodeficiency Virus Type 1. Journal of Virology, 2005, 79, 5907-5913.	3.4	14
96	Estimating selection pressures on alignments of coding sequences. , 2009, , 419-490.		14
97	Genomic Characterization of Two Novel HIV-1 Second-Generation Recombinant Forms Among Men Who Have Sex with Men in Beijing, China. AIDS Research and Human Retroviruses, 2015, 31, 342-346.	1.1	14
98	Parsing Social Network Survey Data from Hidden Populations Using Stochastic Context-Free Grammars. PLoS ONE, 2009, 4, e6777.	2.5	14
99	Human Immunodeficiency Virus–1 RNA Levels in Cerebrospinal Fluid Exhibit a Set Point in Clinically Stable Patients Not Receiving Antiretroviral Therapy. Journal of Infectious Diseases, 2003, 187, 1818-1821.	4.0	12
100	Herpes Simplex Virus Type 2 Acquisition During Recent HIV Infection Does Not Influence Plasma HIV Levels. Journal of Acquired Immune Deficiency Syndromes (1999), 2008, 47, 592-596.	2.1	11
101	Phylogenetic Characterization of Crimean-Congo Hemorrhagic Fever Virus Detected in African Blue Ticks Feeding on Cattle in a Ugandan Abattoir. Microorganisms, 2021, 9, 438.	3.6	11
102	Genome-Wide Patterns of Gene Expression in a Wild Primate Indicate Species-Specific Mechanisms Associated with Tolerance to Natural Simian Immunodeficiency Virus Infection. Genome Biology and Evolution, 2019, 11, 1630-1643.	2.5	10
103	Cross-Continental Dispersal of Major HIV-1 CRF01_AE Clusters in China. Frontiers in Microbiology, 2020, 11, 61.	3.5	10
104	Assessing the use of hospital staff influenza-like absence (ILA) for enhancing hospital preparedness and national surveillance. BMC Infectious Diseases, 2015, 15, 110.	2.9	9
105	Modeling and Analyzing Respondent-Driven Sampling as a Counting Process. Biometrics, 2017, 73, 1189-1198.	1.4	9
106	Sexual networks and the transmission of drug-resistant HIV. Current Opinion in Infectious Diseases, 2008, 21, 644-652.	3.1	8
107	Genomic Characterization of Two Novel HIV-1 Unique (CRF01_AE/B) Recombinant Forms Among Men Who Have Sex with Men in Beijing, China. AIDS Research and Human Retroviruses, 2015, 31, 921-925.	1.1	8
108	The role of venues in structuring HIV, sexually transmitted infections, and risk networks among men who have sex with men. BMC Public Health, 2018, 18, 225.	2.9	8

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109	Dynamics and evolution of HIV-1 during structured treatment interruptions. AIDS Reviews, 2002, 4, 119-27.	1.0	8
110	An investig-ation into the epidemiology of chikungunya virus across neglected regions of Indonesia. PLoS Neglected Tropical Diseases, 2020, 14, e0008934.	3.0	6
111	Assessing Commitment and Reporting Fidelity to a Text Message-Based Participatory Surveillance in Rural Western Uganda. PLoS ONE, 2016, 11, e0155971.	2.5	4
112	Distinct Dengue Disease Epidemiology, Clinical, and Diagnosis Features in Western, Central, and Eastern Regions of Indonesia, 2017–2019. Frontiers in Medicine, 2020, 7, 582235.	2.6	4
113	Whole-genome analysis to determine the rate and patterns of intra-subtype reassortment among influenza type-A viruses in Africa. Virus Evolution, 2022, 8, veac005.	4.9	4
114	Viral kinetics and hepatitis C. Hepatology, 2003, 38, 1588-1588.	7.3	3
115	Molecular Epidemiology and Evolutionary Dynamics of Human Influenza Type-A Viruses in Africa: A Systematic Review. Microorganisms, 2022, 10, 900.	3.6	2
116	Genetic Imprint of Vaccination on Simian/Human Immunodeficiency Virus Type 1 Transmitted Viral Genomes in Rhesus Macaques. PLoS ONE, 2013, 8, e70814.	2.5	1
117	Surveys, Serologies, and Sequences Reveal History of latrogenic Transmission of HIV-1. Journal of Infectious Diseases, 2016, 214, 341-343.	4.0	1
118	Gillespie.jl: Stochastic Simulation Algorithm in Julia. Journal of Open Source Software, 2016, 1, 42.	4.6	1
119	Molecular epidemiology of dengue in a setting of low reported endemicity: Kupang, East Nusa Tenggara province, Indonesia. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2021, 115, 1304-1316.	1.8	0
120	An Evolutionary-Network Model Reveals Stratified Interactions in the V3 Loop of the HIV-1 Envelope. PLoS Computational Biology, 2005, preprint, e231.	3.2	0
121	The Role of Viral Genetic Variability in HIV-Associated Neurocognitive Disorder. , 0, , 201-218.		0
122	genieR: An R package for inference of demographic history of phylogenies. Journal of Open Source Software, 2019, 4, 634.	4.6	0
123	An investig-ation into the epidemiology of chikungunya virus across neglected regions of Indonesia. , 2020, 14, e0008934.		0
124	An investig-ation into the epidemiology of chikungunya virus across neglected regions of Indonesia. , 2020, 14, e0008934.		0
125	An investig-ation into the epidemiology of chikungunya virus across neglected regions of Indonesia. , 2020, 14, e0008934.		0
126	An investig-ation into the epidemiology of chikungunya virus across neglected regions of Indonesia. , 2020, 14, e0008934.		0