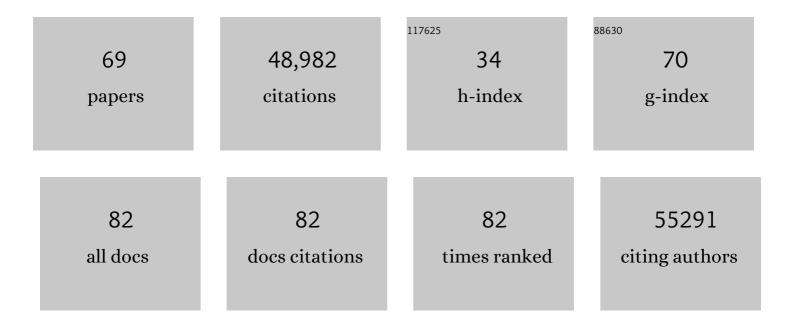
## **Olivier Gascuel**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9868575/publications.pdf Version: 2024-02-01



| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A tutorial on the balanced minimum evolution problem. European Journal of Operational Research, 2022, 300, 1-19.  | 5.7  | 4         |
| 2  | Genome-wide diversity of Zika virus: Exploring spatio-temporal dynamics to guide a new nomenclature proposal. Virus Evolution, 2022, 8, veac029.  | 4.9  | 5         |
| 3  | Gotree/Goalign: toolkit and Go API to facilitate the development of phylogenetic workflows. NAR<br>Genomics and Bioinformatics, 2021, 3, lqab075.   | 3.2  | 50        |
| 4  | Cuban history of CRF19 recombinant subtype of HIV-1. PLoS Pathogens, 2021, 17, e1009786.  | 4.7  | 3         |
| 5  | Using machine learning and big data to explore the drug resistance landscape in HIV. PLoS<br>Computational Biology, 2021, 17, e1008873.   | 3.2  | 8         |
| 6  | Drug resistance mutations in HIV: new bioinformatics approaches and challenges. Current Opinion in Virology, 2021, 51, 56-64.   | 5.4  | 23        |
| 7  | A Darwinian Uncertainty Principle. Systematic Biology, 2020, 69, 521-529.   | 5.6  | 12        |
| 8  | Sampling bias and incorrect rooting make phylogenetic network tracing of SARS-COV-2 infections<br>unreliable. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117,<br>12522-12523. | 7.1  | 68        |
| 9  | A Fast Likelihood Method to Reconstruct and Visualize Ancestral Scenarios. Molecular Biology and Evolution, 2019, 36, 2069-2085.  | 8.9  | 153       |
| 10 | NGPhylogeny.fr: new generation phylogenetic services for non-specialists. Nucleic Acids Research,<br>2019, 47, W260-W265.   | 14.5 | 489       |
| 11 | Distribution and asymptotic behavior of the phylogenetic transfer distance. Journal of Mathematical<br>Biology, 2019, 79, 485-508.  | 1.9  | 2         |
| 12 | Generalized Bootstrap Supports for Phylogenetic Analyses of Protein Sequences Incorporating<br>Alignment Uncertainty. Systematic Biology, 2018, 67, 997-1009.   | 5.6  | 12        |
| 13 | Improving pairwise comparison of protein sequences with domain co-occurrence. PLoS Computational<br>Biology, 2018, 14, e1005889.  | 3.2  | 7         |
| 14 | SMS: Smart Model Selection in PhyML. Molecular Biology and Evolution, 2017, 34, 2422-2424.  | 8.9  | 1,572     |
| 15 | The Role of Phylogenetics as a Tool to Predict the Spread of Resistance. Journal of Infectious Diseases, 2017, 216, S820-S823.  | 4.0  | 10        |
| 16 | The combinatorics of overlapping genes. Journal of Theoretical Biology, 2017, 415, 90-101.  | 1.7  | 29        |
| 17 | Inferring epidemiological parameters from phylogenies using regression-ABC: A comparative study.<br>PLoS Computational Biology, 2017, 13, e1005416.   | 3.2  | 39        |
| 18 | In-depth analysis of HIV-1 drug resistance mutations in HIV-infected individuals failing first-line<br>regimens in West and Central Africa. Aids, 2016, 30, 2577-2589.  | 2.2  | 24        |

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|----|--|------|-----------|
| 19 | Concomitant emergence of the antisense protein gene of HIV-1 and of the pandemic. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11537-11542. | 7.1  | 64        |
| 20 | A â€~Stochastic Safety Radius' for Distance-Based Tree Reconstruction. Algorithmica, 2016, 74, 1386-1403.  | 1.3  | 10        |
| 21 | Fast Dating Using Least-Squares Criteria and Algorithms. Systematic Biology, 2016, 65, 82-97.  | 5.6  | 336       |
| 22 | A phylotype-based analysis highlights the role of drug-naive HIV-positive individuals in the transmission of antiretroviral resistance in the UK. Aids, 2015, 29, 1917-1925.               | 2.2  | 41        |
| 23 | TCS: a web server for multiple sequence alignment evaluation and phylogenetic reconstruction:<br>Figure 1 Nucleic Acids Research, 2015, 43, W3-W6.   | 14.5 | 44        |
| 24 | Mathematical and Computational Evolutionary Biology (2013). Systematic Biology, 2015, 64, 1-2.   | 5.6  | 52        |
| 25 | FastME 2.0: A Comprehensive, Accurate, and Fast Distance-Based Phylogeny Inference Program: Table 1<br>Molecular Biology and Evolution, 2015, 32, 2798-2800.                               | 8.9  | 1,103     |
| 26 | Deep Conservation of Human Protein Tandem Repeats within the Eukaryotes. Molecular Biology and Evolution, 2014, 31, 1132-1148.   | 8.9  | 62        |
| 27 | Predicting the Ancestral Character Changes in a Tree is Typically Easier than Predicting the Root State.<br>Systematic Biology, 2014, 63, 421-435.   | 5.6  | 31        |
| 28 | Identification of Divergent Protein Domains by Combining HMM-HMM Comparisons and Co-Occurrence Detection. PLoS ONE, 2014, 9, e95275.   | 2.5  | 6         |
| 29 | Sexually-Transmitted/Founder HIV-1 Cannot Be Directly Predicted from Plasma or PBMC-Derived Viral Quasispecies in the Transmitting Partner. PLoS ONE, 2013, 8, e69144.                     | 2.5  | 18        |
| 30 | Branch Lengths on Birth–Death Trees and the Expected Loss of Phylogenetic Diversity. Systematic<br>Biology, 2012, 61, 195-203.   | 5.6  | 67        |
| 31 | Modeling Protein Evolution with Several Amino Acid Replacement Matrices Depending on Site Rates.<br>Molecular Biology and Evolution, 2012, 29, 2921-2936.                                  | 8.9  | 201       |
| 32 | Combinatorics of distance-based tree inference. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16443-16448.                                   | 7.1  | 13        |
| 33 | The Origin and Evolutionary History of HIV-1 Subtype C in Senegal. PLoS ONE, 2012, 7, e33579.  | 2.5  | 20        |
| 34 | EuPathDomains: The divergent domain database for eukaryotic pathogens. Infection, Genetics and Evolution, 2011, 11, 698-707.   | 2.3  | 8         |
| 35 | Survey of Branch Support Methods Demonstrates Accuracy, Power, and Robustness of Fast<br>Likelihood-based Approximation Schemes. Systematic Biology, 2011, 60, 685-699.                    | 5.6  | 912       |
| 36 | Robustness of Phylogenetic Inference Based on Minimum Evolution. Bulletin of Mathematical Biology,<br>2010, 72, 1820-1839.   | 1.9  | 15        |

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|----|--|-----|-----------|
| 37 | Accounting for Solvent Accessibility and Secondary Structure in Protein Phylogenetics Is Clearly<br>Beneficial. Systematic Biology, 2010, 59, 277-287.   | 5.6 | 107       |
| 38 | New Algorithms and Methods to Estimate Maximum-Likelihood Phylogenies: Assessing the Performance of PhyML 3.0. Systematic Biology, 2010, 59, 307-321.  | 5.6 | 15,166    |
| 39 | SeaView Version 4: A Multiplatform Graphical User Interface for Sequence Alignment and Phylogenetic Tree Building. Molecular Biology and Evolution, 2010, 27, 221-224.                                   | 8.9 | 5,075     |
| 40 | Inferring ancestral sequences in taxon-rich phylogenies. Mathematical Biosciences, 2010, 227, 125-135.   | 1.9 | 20        |
| 41 | Consistency of Topological Moves Based on the Balanced Minimum Evolution Principle of<br>Phylogenetic Inference. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6,<br>110-117. | 3.0 | 27        |
| 42 | An Improved General Amino Acid Replacement Matrix. Molecular Biology and Evolution, 2008, 25, 1307-1320.   | 8.9 | 2,748     |
| 43 | Phylogenetic mixture models for proteins. Philosophical Transactions of the Royal Society B:<br>Biological Sciences, 2008, 363, 3965-3976.   | 4.0 | 202       |
| 44 | Empirical profile mixture models for phylogenetic reconstruction. Bioinformatics, 2008, 24, 2317-2323.   | 4.1 | 292       |
| 45 | Duplication and Inversion History of a Tandemly Repeated Genes Family. Journal of Computational Biology, 2007, 14, 462-478.  | 1.6 | 26        |
| 46 | Genomics, biogeography, and the diversification of placental mammals. Proceedings of the National<br>Academy of Sciences of the United States of America, 2007, 104, 14395-14400.                        | 7.1 | 158       |
| 47 | Identification of novel peptide hormones in the human proteome by hidden Markov model screening.<br>Genome Research, 2007, 17, 320-327.  | 5.5 | 231       |
| 48 | SDM: A Fast Distance-Based Approach for (Super)Tree Building in Phylogenomics. Systematic Biology,<br>2006, 55, 740-755.   | 5.6 | 69        |
| 49 | Neighbor-Joining Revealed. Molecular Biology and Evolution, 2006, 23, 1997-2000.   | 8.9 | 252       |
| 50 | Approximate Likelihood-Ratio Test for Branches: A Fast, Accurate, and Powerful Alternative.<br>Systematic Biology, 2006, 55, 539-552.  | 5.6 | 2,426     |
| 51 | An exact and polynomial distance-based algorithm to reconstruct single copy tandem duplication trees. Journal of Discrete Algorithms, 2005, 3, 362-374.  | 0.7 | 4         |
| 52 | Topological Rearrangements and Local Search Method for Tandem Duplication Trees. IEEE/ACM<br>Transactions on Computational Biology and Bioinformatics, 2005, 2, 15-28.                                   | 3.0 | 16        |
| 53 | Performance Analysis of Hierarchical Clustering Algorithms. Journal of Classification, 2004, 21, 3-18.   | 2.2 | 21        |
| 54 | On the consistency of the minimum evolution principle of phylogenetic inference. Discrete Applied<br>Mathematics, 2003, 127, 63-77.  | 0.9 | 17        |

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|----|--|-----|-----------|
| 55 | A Simple, Fast, and Accurate Algorithm to Estimate Large Phylogenies by Maximum Likelihood.<br>Systematic Biology, 2003, 52, 696-704.  | 5.6 | 15,438    |
| 56 | Theoretical Foundation of the Balanced Minimum Evolution Method of Phylogenetic Inference and Its<br>Relationship to Weighted Least-Squares Tree Fitting. Molecular Biology and Evolution, 2003, 21,<br>587-598. | 8.9 | 201       |
| 57 | The Combinatorics of Tandem Duplication Trees. Systematic Biology, 2003, 52, 110-118.  | 5.6 | 23        |
| 58 | Improvement of Distance-Based Phylogenetic Methods by a Local Maximum Likelihood Approach Using<br>Triplets. Molecular Biology and Evolution, 2002, 19, 1952-1963.   | 8.9 | 63        |
| 59 | Reconstructing the Duplication History of Tandemly Repeated Genes. Molecular Biology and Evolution, 2002, 19, 278-288.   | 8.9 | 71        |
| 60 | Efficient Biased Estimation of Evolutionary Distances When Substitution Rates Vary Across Sites.<br>Molecular Biology and Evolution, 2002, 19, 534-543.  | 8.9 | 40        |
| 61 | Fast and Accurate Phylogeny Reconstruction Algorithms Based on the Minimum-Evolution Principle.<br>Journal of Computational Biology, 2002, 9, 687-705.   | 1.6 | 417       |
| 62 | Quartet-Based Phylogenetic Inference: Improvements and Limits. Molecular Biology and Evolution, 2001, 18, 1103-1116.   | 8.9 | 93        |
| 63 | Strengths and Limitations of the Minimum Evolution Principle. Systematic Biology, 2001, 50, 621-627.   | 5.6 | 45        |
| 64 | Data Model and Classification by Trees: The Minimum Variance Reduction (MVR) Method. Journal of Classification, 2000, 17, 67-99.   | 2.2 | 22        |
| 65 | On the Optimization Principle in Phylogenetic Analysis and the Minimum-Evolution Criterion.<br>Molecular Biology and Evolution, 2000, 17, 401-405.   | 8.9 | 64        |
| 66 | Twelve Numerical, Symbolic and Hybrid Supervised Classification Methods. International Journal of Pattern Recognition and Artificial Intelligence, 1998, 12, 517-571.  | 1.2 | 10        |
| 67 | A reduction algorithm for approximating a (nonmetric) dissimilarity by a tree distance. Journal of Classification, 1996, 13, 129-155.  | 2.2 | 20        |
| 68 | Distribution-free performance bounds with the resubstitution error estimate. Pattern Recognition Letters, 1992, 13, 757-764.   | 4.2 | 14        |
| 69 | Protein export in prokaryotes and eukaryotes: Indications of a difference in the mechanism of exportation. Journal of Molecular Evolution, 1986, 24, 130-142.  | 1.8 | 46        |