

Art F Y Poon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

3,619
citations

30
h-index

58
g-index

109
ext. papers

4,409
ext. citations

5.7
avg, IF

5.49
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 98 | Using networks to analyze and visualize the distribution of overlapping genes in virus genomes.. <i>PLoS Pathogens</i> , 2022 , 18, e1010331 | 7.6 | 2 |
| 97 | Revisiting the recombinant history of HIV-1 group M with dynamic network community detection.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2108815119 ^{11.5} | | |
| 96 | Quantifying the clonality and dynamics of the within-host HIV-1 latent reservoir. <i>Virus Evolution</i> , 2021 , 7, veaa104 | 3.7 | 1 |
| 95 | Tuning intrinsic disorder predictors for virus proteins. <i>Virus Evolution</i> , 2021 , 7, veaa106 | 3.7 | 1 |
| 94 | Network science inspires novel tree shape statistics.. <i>PLoS ONE</i> , 2021 , 16, e0259877 | 3.7 | 0 |
| 93 | Genetic Diversity, Compartmentalization, and Age of HIV Proviruses Persisting in CD4 T Cell Subsets during Long-Term Combination Antiretroviral Therapy. <i>Journal of Virology</i> , 2020 , 94, | 6.6 | 9 |
| 92 | Public health in genetic spaces: a statistical framework to optimize cluster-based outbreak detection. <i>Virus Evolution</i> , 2020 , 6, veaa011 | 3.7 | 4 |
| 91 | Addressing Ethical Challenges in US-Based HIV Phylogenetic Research. <i>Journal of Infectious Diseases</i> , 2020 , 222, 1997-2006 | 7 | 20 |
| 90 | A targeted reactivation of latent HIV-1 using an activator vector in patient samples from acute infection. <i>EBioMedicine</i> , 2020 , 59, 102853 | 8.8 | 5 |
| 89 | Accumulation of integrase strand transfer inhibitor resistance mutations confers high-level resistance to dolutegravir in non-B subtype HIV-1 strains from patients failing raltegravir in Uganda. <i>Journal of Antimicrobial Chemotherapy</i> , 2020 , 75, 3525-3533 | 5.1 | 3 |
| 88 | HyPhy 2.5-A Customizable Platform for Evolutionary Hypothesis Testing Using Phylogenies. <i>Molecular Biology and Evolution</i> , 2020 , 37, 295-299 | 8.3 | 111 |
| 87 | Evidence for a recombinant origin of HIV-1 Group M from genomic variation. <i>Virus Evolution</i> , 2019 , 5, vey039 | 3.7 | 6 |
| 86 | First-line HIV treatment failures in non-B subtypes and recombinants: a cross-sectional analysis of multiple populations in Uganda. <i>AIDS Research and Therapy</i> , 2019 , 16, 3 | 3 | 3 |
| 85 | HIV Diversity and Genetic Compartmentalization in Blood and Testes during Suppressive Antiretroviral Therapy. <i>Journal of Virology</i> , 2019 , 93, | 6.6 | 17 |
| 84 | Role of co-expressed APOBEC3F and APOBEC3G in inducing HIV-1 drug resistance. <i>Heliyon</i> , 2019 , 5, e01498 | 3.7 | 6 |
| 83 | Phylogenetic measures of indel rate variation among the HIV-1 group M subtypes. <i>Virus Evolution</i> , 2019 , 5, vez022 | 3.7 | 2 |
| 82 | Tree shape-based approaches for the comparative study of cophylogeny. <i>Ecology and Evolution</i> , 2019 , 9, 6756-6771 | 2.8 | 8 |

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| 81 | sierra-local: A lightweight standalone application for drug resistance prediction. <i>Journal of Open Source Software</i> , 2019 , 4, 1186 | 5.2 | 2 |
| 80 | Comparative analysis of HIV sequences in real time for public health. <i>Current Opinion in HIV and AIDS</i> , 2019 , 14, 213-220 | 4.2 | 13 |
| 79 | A systematic, deep sequencing-based methodology for identification of mixed-genotype hepatitis C virus infections. <i>Infection, Genetics and Evolution</i> , 2019 , 69, 76-84 | 4.5 | 5 |
| 78 | Detecting Amino Acid Coevolution with Bayesian Graphical Models. <i>Methods in Molecular Biology</i> , 2019 , 1851, 105-122 | 1.4 | 3 |
| 77 | Genetic Cluster Analysis for HIV Prevention. <i>Current HIV/AIDS Reports</i> , 2018 , 15, 182-189 | 5.9 | 26 |
| 76 | What Proportion of HIV-Infected Foreign-Born Individuals in the United States Have Been Infected After Immigrating to the United States?. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2018 , 77, e35-e36 | 3.1 | 2 |
| 75 | Absence of HIV-1 Drug Resistance Mutations Supports the Use of Dolutegravir in Uganda. <i>AIDS Research and Human Retroviruses</i> , 2018 , 34, 404-414 | 1.6 | 13 |
| 74 | Quantitation of the latent HIV-1 reservoir from the sequence diversity in viral outgrowth assays. <i>Retrovirology</i> , 2018 , 15, 47 | 3.6 | 2 |
| 73 | HIV-1 Transmission Clustering and Phylodynamics Highlight the Important Role of Young Men Who Have Sex with Men. <i>AIDS Research and Human Retroviruses</i> , 2018 , 34, 879-888 | 1.6 | 14 |
| 72 | Higher sequence diversity in the vaginal tract than in blood at early HIV-1 infection. <i>PLoS Pathogens</i> , 2018 , 14, e1006754 | 7.6 | 15 |
| 71 | An open-source k-mer based machine learning tool for fast and accurate subtyping of HIV-1 genomes. <i>PLoS ONE</i> , 2018 , 13, e0206409 | 3.7 | 36 |
| 70 | Phylogenetic approach to recover integration dates of latent HIV sequences within-host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8958-E8967 | 11.5 | 23 |
| 69 | node.dating: dating ancestors in phylogenetic trees in R. <i>Bioinformatics</i> , 2017 , 33, 932-934 | 7.2 | 11 |
| 68 | Genotypic susceptibility score (GSS) and CD4+ T cell recovery in HIV-1 patients with suppressed viral load. <i>Journal of Antimicrobial Chemotherapy</i> , 2017 , 72, 496-503 | 5.1 | 2 |
| 67 | Phylogenetic Tools for Generalized HIV-1 Epidemics: Findings from the PANGEA-HIV Methods Comparison. <i>Molecular Biology and Evolution</i> , 2017 , 34, 185-203 | 8.3 | 41 |
| 66 | Promises and pitfalls of Illumina sequencing for HIV resistance genotyping. <i>Virus Research</i> , 2017 , 239, 97-105 | 6.4 | 18 |
| 65 | A model-based clustering method to detect infectious disease transmission outbreaks from sequence variation. <i>PLoS Computational Biology</i> , 2017 , 13, e1005868 | 5 | 15 |
| 64 | Sensitive detection of HIV-1 resistance to Zidovudine and impact on treatment outcomes in low- to middle-income countries. <i>Infectious Diseases of Poverty</i> , 2017 , 6, 163 | 10.4 | 6 |

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|----|--|------|-----|
| 63 | Potential for immune-driven viral polymorphisms to compromise antiretroviral-based preexposure prophylaxis for prevention of HIV-1 infection. <i>Aids</i> , 2017 , 31, 1935-1943 | 3.5 | 6 |
| 62 | Reconstructing contact network parameters from viral phylogenies. <i>Virus Evolution</i> , 2016 , 2, vew029 | 3.7 | 7 |
| 61 | Deep sequencing increases hepatitis C virus phylogenetic cluster detection compared to Sanger sequencing. <i>Infection, Genetics and Evolution</i> , 2016 , 43, 329-37 | 4.5 | 12 |
| 60 | Population-Level Immune-Mediated Adaptation in HIV-1 Polymerase during the North American Epidemic. <i>Journal of Virology</i> , 2016 , 90, 1244-58 | 6.6 | 9 |
| 59 | Ancestral Reconstruction. <i>PLoS Computational Biology</i> , 2016 , 12, e1004763 | 5 | 84 |
| 58 | Impacts and shortcomings of genetic clustering methods for infectious disease outbreaks. <i>Virus Evolution</i> , 2016 , 2, vew031 | 3.7 | 49 |
| 57 | The spread of hepatitis C virus genotype 1a in North America: a retrospective phylogenetic study. <i>Lancet Infectious Diseases, The</i> , 2016 , 16, 698-702 | 25.5 | 35 |
| 56 | Near real-time monitoring of HIV transmission hotspots from routine HIV genotyping: an implementation case study. <i>Lancet HIV,the</i> , 2016 , 3, e231-8 | 7.8 | 122 |
| 55 | The impact of clinical, demographic and risk factors on rates of HIV transmission: a population-based phylogenetic analysis in British Columbia, Canada. <i>Journal of Infectious Diseases</i> , 2015 , 211, 926-35 | 7 | 73 |
| 54 | A molecular phylogenetics-based approach for identifying recent hepatitis C virus transmission events. <i>Infection, Genetics and Evolution</i> , 2015 , 33, 101-9 | 4.5 | 18 |
| 53 | Phyldynamic Inference with Kernel ABC and Its Application to HIV Epidemiology. <i>Molecular Biology and Evolution</i> , 2015 , 32, 2483-95 | 8.3 | 30 |
| 52 | Global Database-Driven Assessment of HIV-1 Adaptation to the Immune Repertoires of Human Populations. <i>Journal of Virology</i> , 2015 , 89, 10693-5 | 6.6 | 5 |
| 51 | Global origin and transmission of hepatitis C virus nonstructural protein 3 Q80K polymorphism. <i>Journal of Infectious Diseases</i> , 2015 , 211, 1288-95 | 7 | 42 |
| 50 | Differential evolution of a CXCR4-using HIV-1 strain in CCR5wt/wt and CCR5B2/B2 hosts revealed by longitudinal deep sequencing and phylogenetic reconstruction. <i>Scientific Reports</i> , 2015 , 5, 17607 | 4.9 | 9 |
| 49 | Origin and Evolution of Human Immunodeficiency Viruses 2015 , 587-611 | | 3 |
| 48 | "Deep" sequencing accuracy and reproducibility using Roche/454 technology for inferring co-receptor usage in HIV-1. <i>PLoS ONE</i> , 2014 , 9, e99508 | 3.7 | 9 |
| 47 | Genotypic and functional impact of HIV-1 adaptation to its host population during the North American epidemic. <i>PLoS Genetics</i> , 2014 , 10, e1004295 | 6 | 34 |
| 46 | Theoretical and experimental assessment of degenerate primer tagging in ultra-deep applications of next-generation sequencing. <i>Nucleic Acids Research</i> , 2014 , 42, e98 | 20.1 | 27 |

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|----|---|------|-----|
| 45 | An evaluation of phylogenetic methods for reconstructing transmitted HIV variants using longitudinal clonal HIV sequence data. <i>Journal of Virology</i> , 2014 , 88, 6181-94 | 6.6 | 9 |
| 44 | Comparison of population and 454 "deep" sequence analysis for HIV type 1 tropism versus the original trofile assay in non-B subtypes. <i>AIDS Research and Human Retroviruses</i> , 2013 , 29, 979-84 | 1.6 | 15 |
| 43 | Use of cellular HIV DNA to predict virologic response to maraviroc: performance of population-based and deep sequencing. <i>Clinical Infectious Diseases</i> , 2013 , 56, 1659-66 | 11.6 | 27 |
| 42 | Maraviroc treatment in non-R5-HIV-1-infected patients results in the selection of extreme CXCR4-using variants with limited effect on the total viral setpoint. <i>Journal of Antimicrobial Chemotherapy</i> , 2013 , 68, 2007-14 | 5.1 | 6 |
| 41 | Factors influencing the sensitivity and specificity of conventional sequencing in human immunodeficiency virus type 1 tropism testing. <i>Journal of Clinical Microbiology</i> , 2013 , 51, 444-51 | 9.7 | 11 |
| 40 | Replication fitness of multiple nonnucleoside reverse transcriptase-resistant HIV-1 variants in the presence of etravirine measured by 454 deep sequencing. <i>Journal of Virology</i> , 2013 , 87, 8805-7 | 6.6 | 8 |
| 39 | Mapping the shapes of phylogenetic trees from human and zoonotic RNA viruses. <i>PLoS ONE</i> , 2013 , 8, e78122 | 3.7 | 28 |
| 38 | Evolution of viral genomes: interplay between selection, recombination, and other forces. <i>Methods in Molecular Biology</i> , 2012 , 856, 239-72 | 1.4 | 13 |
| 37 | Characterizing HIV transmission networks across the United States. <i>Clinical Infectious Diseases</i> , 2012 , 55, 1135-43 | 11.6 | 98 |
| 36 | Reconstructing the dynamics of HIV evolution within hosts from serial deep sequence data. <i>PLoS Computational Biology</i> , 2012 , 8, e1002753 | 5 | 37 |
| 35 | Prolonged and substantial discordance in prevalence of raltegravir-resistant HIV-1 in plasma versus PBMC samples revealed by 454 "deep" sequencing. <i>PLoS ONE</i> , 2012 , 7, e46181 | 3.7 | 13 |
| 34 | HIV-1 nef protein structures associated with brain infection and dementia pathogenesis. <i>PLoS ONE</i> , 2011 , 6, e16659 | 3.7 | 26 |
| 33 | Transmitted drug resistance in the CFAR network of integrated clinical systems cohort: prevalence and effects on pre-therapy CD4 and viral load. <i>PLoS ONE</i> , 2011 , 6, e21189 | 3.7 | 28 |
| 32 | Dates of HIV infection can be estimated for seroprevalent patients by coalescent analysis of serial next-generation sequencing data. <i>Aids</i> , 2011 , 25, 2019-26 | 3.5 | 25 |
| 31 | In vitro selection of clinically relevant bevirimat resistance mutations revealed by "deep" sequencing of serially passaged, quasispecies-containing recombinant HIV-1. <i>Journal of Clinical Microbiology</i> , 2011 , 49, 201-8 | 9.7 | 13 |
| 30 | Selection in coastal <i>Synechococcus</i> (cyanobacteria) populations evaluated from environmental metagenomes. <i>PLoS ONE</i> , 2011 , 6, e24249 | 3.7 | 15 |
| 29 | Datamonkey 2010: a suite of phylogenetic analysis tools for evolutionary biology. <i>Bioinformatics</i> , 2010 , 26, 2455-7 | 7.2 | 942 |
| 28 | Evolutionary fingerprinting of genes. <i>Molecular Biology and Evolution</i> , 2010 , 27, 520-36 | 8.3 | 55 |

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| 27 | Phylogenetic analysis of population-based and deep sequencing data to identify coevolving sites in the nef gene of HIV-1. <i>Molecular Biology and Evolution</i> , 2010 , 27, 819-32 | 8.3 | 55 |
| 26 | An evolutionary model-based algorithm for accurate phylogenetic breakpoint mapping and subtype prediction in HIV-1. <i>PLoS Computational Biology</i> , 2009 , 5, e1000581 | 5 | 130 |
| 25 | A novel codon insert in protease of clade B HIV type 1. <i>AIDS Research and Human Retroviruses</i> , 2009 , 25, 547-50 | 1.6 | 4 |
| 24 | Compensatory mutations are repeatable and clustered within proteins. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1823-7 | 4.4 | 50 |
| 23 | Parsing social network survey data from hidden populations using stochastic context-free grammars. <i>PLoS ONE</i> , 2009 , 4, e6777 | 3.7 | 14 |
| 22 | Detecting signatures of selection from DNA sequences using Datamonkey. <i>Methods in Molecular Biology</i> , 2009 , 537, 163-83 | 1.4 | 59 |
| 21 | Immune-driven recombination and loss of control after HIV superinfection. <i>Journal of Experimental Medicine</i> , 2008 , 205, 1789-96 | 16.6 | 83 |
| 20 | A maximum likelihood method for detecting directional evolution in protein sequences and its application to influenza A virus. <i>Molecular Biology and Evolution</i> , 2008 , 25, 1809-24 | 8.3 | 88 |
| 19 | Spidermonkey: rapid detection of co-evolving sites using Bayesian graphical models. <i>Bioinformatics</i> , 2008 , 24, 1949-50 | 7.2 | 57 |
| 18 | Silent mutations are selected in HIV-1 reverse transcriptase and affect enzymatic efficiency. <i>Aids</i> , 2008 , 22, 2501-8 | 3.5 | 12 |
| 17 | Herpes simplex virus type 2 acquisition during recent HIV infection does not influence plasma HIV levels. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2008 , 47, 592-6 | 3.1 | 10 |
| 16 | Adaptation to human populations is revealed by within-host polymorphisms in HIV-1 and hepatitis C virus. <i>PLoS Pathogens</i> , 2007 , 3, e45 | 7.6 | 45 |
| 15 | Evolutionary interactions between N-linked glycosylation sites in the HIV-1 envelope. <i>PLoS Computational Biology</i> , 2007 , 3, e11 | 5 | 53 |
| 14 | An evolutionary-network model reveals stratified interactions in the V3 loop of the HIV-1 envelope. <i>PLoS Computational Biology</i> , 2007 , 3, e231 | 5 | 88 |
| 13 | Mapping protease inhibitor resistance to human immunodeficiency virus type 1 sequence polymorphisms within patients. <i>Journal of Virology</i> , 2007 , 81, 13598-607 | 6.6 | 18 |
| 12 | FUNCTIONAL ORIGINS OF FITNESS EFFECT-SIZES OF COMPENSATORY MUTATIONS IN THE DNA BACTERIOPHAGE Φ 174. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2032-2043 | 3.8 | 2 |
| 11 | Functional origins of fitness effect-sizes of compensatory mutations in the DNA bacteriophage phiX174. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2032-43 | 3.8 | 21 |
| 10 | The coupon collector and the suppressor mutation: estimating the number of compensatory mutations by maximum likelihood. <i>Genetics</i> , 2005 , 170, 1323-32 | 4 | 69 |

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| 9 | The rate of compensatory mutation in the DNA bacteriophage phiX174. <i>Genetics</i> , 2005 , 170, 989-99 | 4 | 120 |
| 8 | An Evolutionary-Network Model Reveals Stratified Interactions in the V3 Loop of the HIV-1 Envelope. <i>PLoS Computational Biology</i> , 2005 , preprint, e231 | 5 | |
| 7 | Drift increases the advantage of sex in RNA bacteriophage Phi6. <i>Genetics</i> , 2004 , 166, 19-24 | 4 | 38 |
| 6 | Compensating for our load of mutations: freezing the meltdown of small populations. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 1467-79 | 3.8 | 154 |
| 5 | COMPENSATING FOR OUR LOAD OF MUTATIONS: FREEZING THE MELTDOWN OF SMALL POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 1467 | 3.8 | 39 |
| 4 | Estimating selection pressures on alignments of coding sequences419-490 | | 11 |
| 3 | sierra-local: A lightweight standalone application for secure HIV-1 drug resistance prediction | | 1 |
| 2 | Tree Shape-based approaches for the Comparative study of Cophylogeny | | 2 |
| 1 | Early and ongoing importations of SARS-CoV-2 in Canada | | 7 |