

# Pleuni S Pennings

## List of Publications by Citations

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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.

53  
papers

2,243  
citations

20  
h-index

47  
g-index

68  
ext. papers

2,855  
ext. citations

5.1  
avg, IF

5.51  
L-index

#	Paper	IF	Citations
53	Soft sweeps: molecular population genetics of adaptation from standing genetic variation. <i>Genetics</i> , <b>2005</b> , 169, 2335-52	4	707
52	Soft sweeps II--molecular population genetics of adaptation from recurrent mutation or migration. <i>Molecular Biology and Evolution</i> , <b>2006</b> , 23, 1076-84	8.3	236
51	Soft sweeps III: the signature of positive selection from recurrent mutation. <i>PLoS Genetics</i> , <b>2006</b> , 2, e1866		203
50	Soft sweeps and beyond: understanding the patterns and probabilities of selection footprints under rapid adaptation. <i>Methods in Ecology and Evolution</i> , <b>2017</b> , 8, 700-716	7.7	140
49	Loss and recovery of genetic diversity in adapting populations of HIV. <i>PLoS Genetics</i> , <b>2014</b> , 10, e10040006		96
48	Imperfect drug penetration leads to spatial monotherapy and rapid evolution of multidrug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E2874-83	11.5	85
47	HIV Drug Resistance: Problems and Perspectives. <i>Gastroenterology Insights</i> , <b>2013</b> , 5, e5	2.1	79
46	Standing genetic variation and the evolution of drug resistance in HIV. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002527	5	60
45	An analytically tractable model for competitive speciation. <i>American Naturalist</i> , <b>2008</b> , 171, E44-71	3.7	60
44	Polygenic adaptation: From sweeps to subtle frequency shifts. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008035	6	55
43	Evidence of adaptation from ancestral variation in young populations of beach mice. <i>Evolution; International Journal of Organic Evolution</i> , <b>2012</b> , 66, 3209-23	3.8	50
42	More effective drugs lead to harder selective sweeps in the evolution of drug resistance in HIV-1. <i>ELife</i> , <b>2016</b> , 5,	8.9	50
41	Specialization and local adaptation of a fungal parasite on two host plant species as revealed by two fitness traits. <i>Evolution; International Journal of Organic Evolution</i> , <b>2007</b> , 61, 27-41	3.8	48
40	Classroom sound can be used to classify teaching practices in college science courses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3085-3090	11.5	44
39	Increased host aggression as an induced defense against slave-making ants. <i>Behavioral Ecology</i> , <b>2011</b> , 22, 255-260	2.3	43
38	Soft Selective Sweeps in Evolutionary Rescue. <i>Genetics</i> , <b>2017</b> , 205, 1573-1586	4	30
37	Fighting microbial drug resistance: a primer on the role of evolutionary biology in public health. <i>Evolutionary Applications</i> , <b>2015</b> , 8, 211-22	4.8	28

36	The population genetics of drug resistance evolution in natural populations of viral, bacterial and eukaryotic pathogens. <i>Molecular Ecology</i> , <b>2016</b> , 25, 42-66	5.7	28
35	Collectively Improving Our Teaching: Attempting Biology Department-wide Professional Development in Scientific Teaching. <i>CBE Life Sciences Education</i> , <b>2018</b> , 17,	3.4	24
34	Within-patient mutation frequencies reveal fitness costs of CpG dinucleotides and drastic amino acid changes in HIV. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007420	6	23
33	Investigating Instructor Talk in Novel Contexts: Widespread Use, Unexpected Categories, and an Emergent Sampling Strategy. <i>CBE Life Sciences Education</i> , <b>2019</b> , 18, ar47	3.4	20
32	A spatio-temporal assessment of simian/human immunodeficiency virus (SHIV) evolution reveals a highly dynamic process within the host. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006358	7.6	15
31	Drivers of within-host genetic diversity in acute infections of viruses. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1009029	6	12
30	Viral CpG Deficiency Provides No Evidence That Dogs Were Intermediate Hosts for SARS-CoV-2. <i>Molecular Biology and Evolution</i> , <b>2020</b> , 37, 2706-2710	8.3	12
29	Evolutionary Dynamics in Structured Populations Under Strong Population Genetic Forces. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 3395-3407	3.2	12
28	CpG-creating mutations are costly in many human viruses. <i>Evolutionary Ecology</i> , <b>2020</b> , 34, 339-359	1.8	10
27	Geographic distribution of the anti-parasite trait [slave rebellion] <i>Evolutionary Ecology</i> , <b>2013</b> , 27, 39-49	1.8	10
26	Association of orthodenticle with natural variation for early embryonic patterning in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2009</b> , 312, 841-54	1.8	8
25	Genetic Adaptation in New York City Rats. <i>Genome Biology and Evolution</i> , <b>2021</b> , 13,	3.9	6
24	The clarifying role of time series data in the population genetics of HIV. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009050	5	6
23	Long-Acting Rilpivirine (RPV) Preexposure Prophylaxis Does Not Inhibit Vaginal Transmission of RPV-Resistant HIV-1 or Select for High-Frequency Drug Resistance in Humanized Mice. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	5
22	Inferring population genetics parameters of evolving viruses using time-series data. <i>Virus Evolution</i> , <b>2019</b> , 5, vez011	3.7	4
21	Drug resistance evolution in HIV in the late 1990s: hard sweeps, soft sweeps, clonal interference and the accumulation of drug resistance mutations		4
20	Understanding patterns of HIV multi-drug resistance through models of temporal and spatial drug heterogeneity. <i>ELife</i> , <b>2021</b> , 10,	8.9	4
19	Soft selective sweeps in evolutionary rescue		3

18	Genetic Adaptation in New York City Rats		3
17	The clarifying role of time series data in the population genetics of HIV		3
16	Drug Resistance Evolution in HIV in the Late 1990s: Hard Sweeps, Soft Sweeps, Clonal Interference and the Accumulation of Drug Resistance Mutations. <i>G3: Genes, Genomes, Genetics</i> , <b>2020</b> , 10, 1213-1223	3.2	3
15	Student-Authored Scientist Spotlights: Investigating the Impacts of Engaging Undergraduates as Developers of Inclusive Curriculum through a Service-Learning Course. <i>CBE Life Sciences Education</i> , <b>2021</b> , 20, ar55	3.4	3
14	The genetic interaction between HIV and the antibody repertoire		2
13	Polygenic adaptation: From sweeps to subtle frequency shifts		1
12	Understanding patterns of HIV multi-drug resistance through models of temporal and spatial drug heterogeneity		
11	Within-patient mutation frequencies reveal fitness costs of CpG dinucleotides and drastic amino acid changes in HIV		1
10	Comparative Analysis of Within-Host Mutation Patterns and Diversity of Hepatitis C Virus Subtypes 1a, 1b, and 3a. <i>Viruses</i> , <b>2021</b> , 13,	6.2	1
9	SIV Evolutionary Dynamics in Cynomolgus Macaques during SIV- Co-Infection.. <i>Viruses</i> , <b>2021</b> , 14,	6.2	1
8	Assessing efficiency of the New England Biolabs Q5 <sup>®</sup> site-directed mutagenesis kit to produce a library of aminoglycoside N-acetyltransferase mutants. <i>FASEB Journal</i> , <b>2018</b> , 32, 798.15	0.9	
7	Evolution von Medikamentenresistenzen <b>2011</b> , 115-150		
6	Drivers of within-host genetic diversity in acute infections of viruses <b>2020</b> , 16, e1009029		
5	Drivers of within-host genetic diversity in acute infections of viruses <b>2020</b> , 16, e1009029		
4	Drivers of within-host genetic diversity in acute infections of viruses <b>2020</b> , 16, e1009029		
3	Drivers of within-host genetic diversity in acute infections of viruses <b>2020</b> , 16, e1009029		
2	Drivers of within-host genetic diversity in acute infections of viruses <b>2020</b> , 16, e1009029		
1	Assessing in vivo mutation frequencies and creating a high-resolution genome-wide map of fitness costs of Hepatitis C virus.. <i>PLoS Genetics</i> , <b>2022</b> , 18, e1010179		6

