

Gilean McVean

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

41,977
citations

34016

52
h-index

49773

87
g-index

124
all docs

124
docs citations

124
times ranked

58768
citing authors

#	ARTICLE	IF	CITATIONS
1	The variant call format and VCFtools. <i>Bioinformatics</i> , 2011, 27, 2156-2158.	1.8	11,326
2	The UK Biobank resource with deep phenotyping and genomic data. <i>Nature</i> , 2018, 562, 203-209.	13.7	5,221
3	A second generation human haplotype map of over 3.1 million SNPs. <i>Nature</i> , 2007, 449, 851-861.	13.7	4,137
4	Genetic risk and a primary role for cell-mediated immune mechanisms in multiple sclerosis. <i>Nature</i> , 2011, 476, 214-219.	13.7	2,400
5	Genome-wide detection and characterization of positive selection in human populations. <i>Nature</i> , 2007, 449, 913-918.	13.7	1,788
6	Analysis of immune-related loci identifies 48 new susceptibility variants for multiple sclerosis. <i>Nature Genetics</i> , 2013, 45, 1353-1360.	9.4	1,213
7	The genetic architecture of type 2 diabetes. <i>Nature</i> , 2016, 536, 41-47.	13.7	952
8	Integrating mapping-, assembly- and haplotype-based approaches for calling variants in clinical sequencing applications. <i>Nature Genetics</i> , 2014, 46, 912-918.	9.4	937
9	A genome-wide association study identifies new psoriasis susceptibility loci and an interaction between HLA-C and ERAP1. <i>Nature Genetics</i> , 2010, 42, 985-990.	9.4	918
10	Interaction between ERAP1 and HLA-B27 in ankylosing spondylitis implicates peptide handling in the mechanism for HLA-B27 in disease susceptibility. <i>Nature Genetics</i> , 2011, 43, 761-767.	9.4	778
11	A high-resolution HLA and SNP haplotype map for disease association studies in the extended human MHC. <i>Nature Genetics</i> , 2006, 38, 1166-1172.	9.4	686
12	A Coalescent-Based Method for Detecting and Estimating Recombination From Gene Sequences. <i>Genetics</i> , 2002, 160, 1231-1241.	1.2	624
13	Drive Against Hotspot Motifs in Primates Implicates the <i>PRDM9</i> Gene in Meiotic Recombination. <i>Science</i> , 2010, 327, 876-879.	6.0	607
14	De novo assembly and genotyping of variants using colored de Bruijn graphs. <i>Nature Genetics</i> , 2012, 44, 226-232.	9.4	564
15	Efficient Coalescent Simulation and Genealogical Analysis for Large Sample Sizes. <i>PLoS Computational Biology</i> , 2016, 12, e1004842.	1.5	547
16	Genetic architecture of artemisinin-resistant <i>Plasmodium falciparum</i> . <i>Nature Genetics</i> , 2015, 47, 226-234.	9.4	515
17	Rapid antibiotic-resistance predictions from genome sequence data for <i>Staphylococcus aureus</i> and <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2015, 6, 10063.	5.8	479
18	A Genealogical Interpretation of Principal Components Analysis. <i>PLoS Genetics</i> , 2009, 5, e1000686.	1.5	462

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19	Multiple populations of artemisinin-resistant <i>Plasmodium falciparum</i> in Cambodia. <i>Nature Genetics</i> , 2013, 45, 648-655.	9.4	424
20	A reference data set of 5.4 million phased human variants validated by genetic inheritance from sequencing a three-generation 17-member pedigree. <i>Genome Research</i> , 2017, 27, 157-164.	2.4	338
21	TNF receptor 1 genetic risk mirrors outcome of anti-TNF therapy in multiple sclerosis. <i>Nature</i> , 2012, 488, 508-511.	13.7	323
22	Class II HLA interactions modulate genetic risk for multiple sclerosis. <i>Nature Genetics</i> , 2015, 47, 1107-1113.	9.4	312
23	Factors influencing success of clinical genome sequencing across a broad spectrum of disorders. <i>Nature Genetics</i> , 2015, 47, 717-726.	9.4	310
24	Stable recombination hotspots in birds. <i>Science</i> , 2015, 350, 928-932.	6.0	280
25	A Fine-Scale Chimpanzee Genetic Map from Population Sequencing. <i>Science</i> , 2012, 336, 193-198.	6.0	273
26	Estimating Diversifying Selection and Functional Constraint in the Presence of Recombination. <i>Genetics</i> , 2006, 172, 1411-1425.	1.2	269
27	Identifying lineage effects when controlling for population structure improves power in bacterial association studies. <i>Nature Microbiology</i> , 2016, 1, 16041.	5.9	247
28	Clinical whole-genome sequencing in severe early-onset epilepsy reveals new genes and improves molecular diagnosis. <i>Human Molecular Genetics</i> , 2014, 23, 3200-3211.	1.4	222
29	Improved genome inference in the MHC using a population reference graph. <i>Nature Genetics</i> , 2015, 47, 682-688.	9.4	197
30	Inferring whole-genome histories in large population datasets. <i>Nature Genetics</i> , 2019, 51, 1330-1338.	9.4	187
31	Resolving <i>TYK2</i> locus genotype-to-phenotype differences in autoimmunity. <i>Science Translational Medicine</i> , 2016, 8, 363ra149.	5.8	186
32	Indels, structural variation, and recombination drive genomic diversity in <i>Plasmodium falciparum</i> . <i>Genome Research</i> , 2016, 26, 1288-1299.	2.4	180
33	A Statistical Method for Predicting Classical HLA Alleles from SNP Data. <i>American Journal of Human Genetics</i> , 2008, 82, 48-56.	2.6	159
34	Multi-Population Classical HLA Type Imputation. <i>PLoS Computational Biology</i> , 2013, 9, e1002877.	1.5	157
35	HLA*IMP—an integrated framework for imputing classical HLA alleles from SNP genotypes. <i>Bioinformatics</i> , 2011, 27, 968-972.	1.8	151
36	Strong male bias drives germline mutation in chimpanzees. <i>Science</i> , 2014, 344, 1272-1275.	6.0	146

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37	The Structure of Linkage Disequilibrium Around a Selective Sweep. <i>Genetics</i> , 2007, 175, 1395-1406.	1.2	138
38	Genome-to-genome analysis highlights the effect of the human innate and adaptive immune systems on the hepatitis C virus. <i>Nature Genetics</i> , 2017, 49, 666-673.	9.4	129
39	Dating genomic variants and shared ancestry in population-scale sequencing data. <i>PLoS Biology</i> , 2020, 18, e3000586.	2.6	127
40	The Power of Gene-Based Rare Variant Methods to Detect Disease-Associated Variation and Test Hypotheses About Complex Disease. <i>PLoS Genetics</i> , 2015, 11, e1005165.	1.5	124
41	Ultrafast search of all deposited bacterial and viral genomic data. <i>Nature Biotechnology</i> , 2019, 37, 152-159.	9.4	123
42	Demography and the Age of Rare Variants. <i>PLoS Genetics</i> , 2014, 10, e1004528.	1.5	98
43	Structural and regulatory diversity shape HLA-C protein expression levels. <i>Nature Communications</i> , 2017, 8, 15924.	5.8	98
44	Genome-wide analysis of 53,400 people with irritable bowel syndrome highlights shared genetic pathways with mood and anxiety disorders. <i>Nature Genetics</i> , 2021, 53, 1543-1552.	9.4	96
45	Recombination Rate Heterogeneity within Arabidopsis Disease Resistance Genes. <i>PLoS Genetics</i> , 2016, 12, e1006179.	1.5	94
46	Perspectives on Human Genetic Variation from the HapMap Project. <i>PLoS Genetics</i> , 2005, 1, e54.	1.5	93
47	HLA*LA€”HLA typing from linearly projected graph alignments. <i>Bioinformatics</i> , 2019, 35, 4394-4396.	1.8	88
48	High-Accuracy HLA Type Inference from Whole-Genome Sequencing Data Using Population Reference Graphs. <i>PLoS Computational Biology</i> , 2016, 12, e1005151.	1.5	87
49	A rare functional cardioprotective APOC3 variant has risen in frequency in distinct population isolates. <i>Nature Communications</i> , 2013, 4, 2872.	5.8	77
50	Imputation of KIR Types from SNP Variation Data. <i>American Journal of Human Genetics</i> , 2015, 97, 593-607.	2.6	73
51	Contributions of intrinsic mutation rate and selfish selection to levels of de novo <i>HRAS</i> mutations in the paternal germline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20152-20157.	3.3	70
52	Deconvolution of multiple infections in <i>Plasmodium falciparum</i> from high throughput sequencing data. <i>Bioinformatics</i> , 2018, 34, 9-15.	1.8	64
53	Integrating long-range connectivity information into de Bruijn graphs. <i>Bioinformatics</i> , 2018, 34, 2556-2565.	1.8	61
54	Genetic characterization of Greek population isolates reveals strong genetic drift at missense and trait-associated variants. <i>Nature Communications</i> , 2014, 5, 5345.	5.8	60

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55	Recommendations for improving statistical inference in population genomics. <i>PLoS Biology</i> , 2022, 20, e3001669.	2.6	60
56	A unified genealogy of modern and ancient genomes. <i>Science</i> , 2022, 375, eabi8264.	6.0	59
57	Bayesian analysis of genetic association across tree-structured routine healthcare data in the UK Biobank. <i>Nature Genetics</i> , 2017, 49, 1311-1318.	9.4	56
58	Selfish mutations dysregulating RAS-MAPK signaling are pervasive in aged human testes. <i>Genome Research</i> , 2018, 28, 1779-1790.	2.4	56
59	What drives recombination hotspots to repeat DNA in humans?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1213-1218.	1.8	54
60	The impact of age on genetic risk for common diseases. <i>PLoS Genetics</i> , 2021, 17, e1009723.	1.5	53
61	The origins and relatedness structure of mixed infections vary with local prevalence of <i>P. falciparum</i> malaria. <i>ELife</i> , 2019, 8, .	2.8	52
62	Genomic Analysis of <i>Plasmodium vivax</i> in Southern Ethiopia Reveals Selective Pressures in Multiple Parasite Mechanisms. <i>Journal of Infectious Diseases</i> , 2019, 220, 1738-1749.	1.9	50
63	Validation of an Integrated Risk Tool, Including Polygenic Risk Score, for Atherosclerotic Cardiovascular Disease in Multiple Ethnicities and Ancestries. <i>American Journal of Cardiology</i> , 2021, 148, 157-164.	0.7	48
64	Hypervariable antigen genes in malaria have ancient roots. <i>BMC Evolutionary Biology</i> , 2013, 13, 110.	3.2	47
65	A Low-Frequency Inactivating <i>AKT2</i> Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. <i>Diabetes</i> , 2017, 66, 2019-2032.	0.3	47
66	Accounting for long-range correlations in genome-wide simulations of large cohorts. <i>PLoS Genetics</i> , 2020, 16, e1008619.	1.5	43
67	Multiple Hodgkin lymphoma-associated loci within the HLA region at chromosome 6p21.3. <i>Blood</i> , 2011, 118, 670-674.	0.6	37
68	High-throughput microbial population genomics using the Cortex variation assembler. <i>Bioinformatics</i> , 2013, 29, 275-276.	1.8	37
69	Whole-genome sequencing of spermatocytic tumors provides insights into the mutational processes operating in the male germline. <i>PLoS ONE</i> , 2017, 12, e0178169.	1.1	36
70	A point mutation in the ion conduction pore of AMPA receptor GRIA3 causes dramatically perturbed sleep patterns as well as intellectual disability. <i>Human Molecular Genetics</i> , 2017, 26, 3869-3882.	1.4	35
71	Identifying cross-disease components of genetic risk across hospital data in the UK Biobank. <i>Nature Genetics</i> , 2020, 52, 126-134.	9.4	35
72	Premalignant SOX2 overexpression in the fallopian tubes of ovarian cancer patients: Discovery and validation studies. <i>EBioMedicine</i> , 2016, 10, 137-149.	2.7	34

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73	Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. <i>Scientific Data</i> , 2017, 4, 170179.	2.4	31
74	Neuroinflammation “ using big data to inform clinical practice. <i>Nature Reviews Neurology</i> , 2016, 12, 685-698.	4.9	29
75	Identification of host“pathogen-disease relationships using a scalable multiplex serology platform in UK Biobank. <i>Nature Communications</i> , 2022, 13, 1818.	5.8	28
76	Bayesian meta“analysis across genome“wide association studies of diverse phenotypes. <i>Genetic Epidemiology</i> , 2019, 43, 532-547.	0.6	27
77	Trinculo: Bayesian and frequentist multinomial logistic regression for genome-wide association studies of multi-category phenotypes. <i>Bioinformatics</i> , 2016, 32, 1898-1900.	1.8	26
78	Estimating Recombination Rates from Genetic Variation in Humans. <i>Methods in Molecular Biology</i> , 2012, 856, 217-237.	0.4	21
79	Integrating genealogical and dynamical modelling to infer escape and reversion rates in HIV epitopes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130696.	1.2	14
80	Elucidating relationships between <i>P.falciparum</i> prevalence and measures of genetic diversity with a combined genetic-epidemiological model of malaria. <i>PLoS Computational Biology</i> , 2021, 17, e1009287.	1.5	14
81	Characterisation of the changing genomic landscape of metastatic melanoma using cell free DNA. <i>Npj Genomic Medicine</i> , 2017, 2, 25.	1.7	12
82	Low-Bias RNA Sequencing of the HIV-2 Genome from Blood Plasma. <i>Journal of Virology</i> , 2019, 93, .	1.5	11
83	Where Next for Genetics and Genomics?. <i>PLoS Biology</i> , 2015, 13, e1002216.	2.6	9
84	Detection of simple and complex de novo mutations with multiple reference sequences. <i>Genome Research</i> , 2020, 30, 1154-1169.	2.4	7
85	Mapping the drivers of within-host pathogen evolution using massive data sets. <i>Nature Communications</i> , 2019, 10, 3017.	5.8	6
86	Graphical Model Selection for Gaussian Conditional Random Fields in the Presence of Latent Variables. <i>Journal of the American Statistical Association</i> , 2019, 114, 723-734.	1.8	6
87	Accounting for long-range correlations in genome-wide simulations of large cohorts. , 2020, 16, e1008619.		0
88	Accounting for long-range correlations in genome-wide simulations of large cohorts. , 2020, 16, e1008619.		0
89	Accounting for long-range correlations in genome-wide simulations of large cohorts. , 2020, 16, e1008619.		0
90	Accounting for long-range correlations in genome-wide simulations of large cohorts. , 2020, 16, e1008619.		0

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91	Accounting for long-range correlations in genome-wide simulations of large cohorts. , 2020, 16, e1008619.		0
92	Accounting for long-range correlations in genome-wide simulations of large cohorts. , 2020, 16, e1008619.		0