

Ben Murrell

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

12,090
citations

117453

34
h-index

64668

79
g-index

97
all docs

97
docs citations

97
times ranked

16224
citing authors

#	ARTICLE	IF	CITATIONS
1	RDP4: Detection and analysis of recombination patterns in virus genomes. <i>Virus Evolution</i> , 2015, 1, vev003.	2.2	2,621
2	Detecting Individual Sites Subject to Episodic Diversifying Selection. <i>PLoS Genetics</i> , 2012, 8, e1002764.	1.5	1,455
3	FUBAR: A Fast, Unconstrained Bayesian AppRoximation for Inferring Selection. <i>Molecular Biology and Evolution</i> , 2013, 30, 1196-1205.	3.5	1,056
4	Less Is More: An Adaptive Branch-Site Random Effects Model for Efficient Detection of Episodic Diversifying Selection. <i>Molecular Biology and Evolution</i> , 2015, 32, 1342-1353.	3.5	631
5	RELAX: Detecting Relaxed Selection in a Phylogenetic Framework. <i>Molecular Biology and Evolution</i> , 2015, 32, 820-832.	3.5	535
6	Gene-Wide Identification of Episodic Selection. <i>Molecular Biology and Evolution</i> , 2015, 32, 1365-1371.	3.5	493
7	Antibody 10-1074 suppresses viremia in HIV-1-infected individuals. <i>Nature Medicine</i> , 2017, 23, 185-191.	15.2	399
8	A Random Effects Branch-Site Model for Detecting Episodic Diversifying Selection. <i>Molecular Biology and Evolution</i> , 2011, 28, 3033-3043.	3.5	383
9	HyPhy 2.5 – A Customizable Platform for Evolutionary Hypothesis Testing Using Phylogenies. <i>Molecular Biology and Evolution</i> , 2020, 37, 295-299.	3.5	342
10	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019, 177, 1153-1171.e28.	13.5	293
11	An alpaca nanobody neutralizes SARS-CoV-2 by blocking receptor interaction. <i>Nature Communications</i> , 2020, 11, 4420.	5.8	261
12	RDP5: a computer program for analyzing recombination in, and removing signals of recombination from, nucleotide sequence datasets. <i>Virus Evolution</i> , 2021, 7, veaa087.	2.2	257
13	SARS-CoV-2 exposure, symptoms and seroprevalence in healthcare workers in Sweden. <i>Nature Communications</i> , 2020, 11, 5064.	5.8	243
14	Broadly Neutralizing Antibody Responses in a Large Longitudinal Sub-Saharan HIV Primary Infection Cohort. <i>PLoS Pathogens</i> , 2016, 12, e1005369.	2.1	241
15	The emergence and ongoing convergent evolution of the SARS-CoV-2 N501Y lineages. <i>Cell</i> , 2021, 184, 5189-5200.e7.	13.5	186
16	Social and Genetic Networks of HIV-1 Transmission in New York City. <i>PLoS Pathogens</i> , 2017, 13, e1006000.	2.1	157
17	Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. <i>Immunity</i> , 2019, 50, 241-252.e6.	6.6	153
18	Early Antibody Lineage Diversification and Independent Limb Maturation Lead to Broad HIV-1 Neutralization Targeting the Env High-Mannose Patch. <i>Immunity</i> , 2016, 44, 1215-1226.	6.6	138

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19	Selection, biophysical and structural analysis of synthetic nanobodies that effectively neutralize SARS-CoV-2. <i>Nature Communications</i> , 2020, 11, 5588.	5.8	132
20	Detecting and Analyzing Genetic Recombination Using RDP4. <i>Methods in Molecular Biology</i> , 2017, 1525, 433-460.	0.4	113
21	HIV Envelope Glycoform Heterogeneity and Localized Diversity Govern the Initiation and Maturation of a V2 Apex Broadly Neutralizing Antibody Lineage. <i>Immunity</i> , 2017, 47, 990-1003.e9.	6.6	90
22	Selection Analysis Identifies Clusters of Unusual Mutational Changes in Omicron Lineage BA.1 That Likely Impact Spike Function. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	84
23	Combined HIV-1 sequence and integration site analysis informs viral dynamics and allows reconstruction of replicating viral ancestors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25891-25899.	3.3	78
24	Growth of HIV-1 Molecular Transmission Clusters in New York City. <i>Journal of Infectious Diseases</i> , 2018, 218, 1943-1953.	1.9	75
25	Rapid and Focused Maturation of a VRC01-Class HIV Broadly Neutralizing Antibody Lineage Involves Both Binding and Accommodation of the N276-Glycan. <i>Immunity</i> , 2019, 51, 141-154.e6.	6.6	71
26	Reprogramming the antigen specificity of B cells using genome-editing technologies. <i>ELife</i> , 2019, 8, .	2.8	69
27	Neutralisation sensitivity of the SARS-CoV-2 omicron (B.1.1.529) variant: a cross-sectional study. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 813-820.	4.6	64
28	Deep Sequencing Reveals Minor Protease Resistance Mutations in Patients Failing a Protease Inhibitor Regimen. <i>Journal of Virology</i> , 2012, 86, 6231-6237.	1.5	63
29	Rhesus and cynomolgus macaque immunoglobulin heavy-chain genotyping yields comprehensive databases of germline VDJ alleles. <i>Immunity</i> , 2021, 54, 355-366.e4.	6.6	52
30	HIV Transmission Networks in the San Diego-Tijuana Border Region. <i>EBioMedicine</i> , 2015, 2, 1456-1463.	2.7	51
31	A bispecific monomeric nanobody induces spike trimer dimers and neutralizes SARS-CoV-2 in vivo. <i>Nature Communications</i> , 2022, 13, 155.	5.8	49
32	Extra-epitopic hepatitis C virus polymorphisms confer resistance to broadly neutralizing antibodies by modulating binding to scavenger receptor B1. <i>PLoS Pathogens</i> , 2017, 13, e1006235.	2.1	47
33	Rapid Germinal Center and Antibody Responses in Non-human Primates after a Single Nanoparticle Vaccine Immunization. <i>Cell Reports</i> , 2019, 29, 1756-1766.e8.	2.9	47
34	An MPER antibody neutralizes HIV-1 using germline features shared among donors. <i>Nature Communications</i> , 2019, 10, 5389.	5.8	44
35	The Evolutionary Histories of Antiretroviral Proteins SERINC3 and SERINC5 Do Not Support an Evolutionary Arms Race in Primates. <i>Journal of Virology</i> , 2016, 90, 8085-8089.	1.5	40
36	Vaccine elicitation of HIV broadly neutralizing antibodies from engineered B cells. <i>Nature Communications</i> , 2020, 11, 5850.	5.8	38

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37	Next generation sequencing improves detection of drug resistance mutations in infants after PMTCT failure. <i>Journal of Clinical Virology</i> , 2015, 62, 48-53.	1.6	36
38	Modeling HIV-1 Drug Resistance as Episodic Directional Selection. <i>PLoS Computational Biology</i> , 2012, 8, e1002507.	1.5	36
39	Seropositivity in blood donors and pregnant women during the first year of SARS-CoV-2 transmission in Stockholm, Sweden. <i>Journal of Internal Medicine</i> , 2021, 290, 666-676.	2.7	34
40	SARS-CoV-2 protein subunit vaccination of mice and rhesus macaques elicits potent and durable neutralizing antibody responses. <i>Cell Reports Medicine</i> , 2021, 2, 100252.	3.3	33
41	Multianalyte serology in home-sampled blood enables an unbiased assessment of the immune response against SARS-CoV-2. <i>Nature Communications</i> , 2021, 12, 3695.	5.8	32
42	Evolution of Viral Genomes: Interplay Between Selection, Recombination, and Other Forces. <i>Methods in Molecular Biology</i> , 2012, 856, 239-272.	0.4	31
43	Evidence of Pervasive Biologically Functional Secondary Structures within the Genomes of Eukaryotic Single-Stranded DNA Viruses. <i>Journal of Virology</i> , 2014, 88, 1972-1989.	1.5	31
44	Cell-free mitochondrial DNA in CSF is associated with early viral rebound, inflammation, and severity of neurocognitive deficits in HIV infection. <i>Journal of NeuroVirology</i> , 2016, 22, 191-200.	1.0	31
45	Long-read amplicon denoising. <i>Nucleic Acids Research</i> , 2019, 47, e104-e104.	6.5	31
46	Adjuvanted SARS-CoV-2 spike protein elicits neutralizing antibodies and CD4 T cell responses after a single immunization in mice. <i>EBioMedicine</i> , 2021, 63, 103197.	2.7	31
47	The genomes of many yam species contain transcriptionally active endogenous geminiviral sequences that may be functionally expressed. <i>Virus Evolution</i> , 2015, 1, vev002.	2.2	30
48	Single-cell analysis pinpoints distinct populations of cytotoxic CD4 ⁺ T cells and an IL-10 ⁺ CD109 ⁺ T _H 2 cell population in nasal polyps. <i>Science Immunology</i> , 2021, 6, .	5.6	30
49	Rapid Sequencing of Complete <i>env</i> Genes from Primary HIV-1 Samples. <i>Virus Evolution</i> , 2016, 2, vew018.	2.2	30
50	Picomolar SARS-CoV-2 Neutralization Using Multi-Arm PEG Nanobody Constructs. <i>Biomolecules</i> , 2020, 10, 1661.	1.8	27
51	IDePI: Rapid Prediction of HIV-1 Antibody Epitopes and Other Phenotypic Features from Sequence Data Using a Flexible Machine Learning Platform. <i>PLoS Computational Biology</i> , 2014, 10, e1003842.	1.5	24
52	HIV Superinfection Drives De Novo Antibody Responses and Not Neutralization Breadth. <i>Cell Host and Microbe</i> , 2018, 24, 593-599.e3.	5.1	24
53	Systematic evaluation of SARS-CoV-2 antigens enables a highly specific and sensitive multiplex serological COVID-19 assay. <i>Clinical and Translational Immunology</i> , 2021, 10, e1312.	1.7	24
54	Glycoengineering HIV-1 Env creates "supercharged" and "hybrid" glycans to increase neutralizing antibody potency, breadth and saturation. <i>PLoS Pathogens</i> , 2018, 14, e1007024.	2.1	22

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55	Degenerate Primer IDs and the Birthday Problem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1330-E1330.	3.3	21
56	Assigning and visualizing germline genes in antibody repertoires. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140240.	1.8	20
57	Using HIV Sequence and Epidemiologic Data to Assess the Effect of Self-referral Testing for Acute HIV Infection on Incident Diagnoses in San Diego, California. <i>Clinical Infectious Diseases</i> , 2016, 63, 101-107.	2.9	20
58	Multivariate mining of an alpaca immune repertoire identifies potent cross-neutralizing SARS-CoV-2 nanobodies. <i>Science Advances</i> , 2022, 8, eabm0220.	4.7	18
59	DNA-launched RNA replicon vaccines induce potent anti-SARS-CoV-2 immune responses in mice. <i>Scientific Reports</i> , 2021, 11, 3125.	1.6	17
60	Beta RBD boost broadens antibody-mediated protection against SARS-CoV-2 variants in animal models. <i>Cell Reports Medicine</i> , 2021, 2, 100450.	3.3	17
61	Identification of broadly neutralizing antibody epitopes in the HIV-1 envelope glycoprotein using evolutionary models. <i>Virology Journal</i> , 2013, 10, 347.	1.4	14
62	Conserved recombination patterns across coronavirus subgenera. <i>Virus Evolution</i> , 2022, 8, .	2.2	14
63	R2-equitability is satisfiable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2160-E2160.	3.3	13
64	SARS-CoV-2 reactive and neutralizing antibodies discovered by single-cell sequencing of plasma cells and mammalian display. <i>Cell Reports</i> , 2022, 38, 110242.	2.9	13
65	On the Validity of Evolutionary Models with Site-Specific Parameters. <i>PLoS ONE</i> , 2014, 9, e94534.	1.1	12
66	Non-Negative Matrix Factorization for Learning Alignment-Specific Models of Protein Evolution. <i>PLoS ONE</i> , 2011, 6, e28898.	1.1	11
67	GPR43 regulates marginal zone B cell responses to foreign and endogenous antigens. <i>Immunology and Cell Biology</i> , 2021, 99, 234-243.	1.0	10
68	Recreational Fish-Finders—An Inexpensive Alternative to Scientific Echo-Sounders for Unravelling the Links between Marine Top Predators and Their Prey. <i>PLoS ONE</i> , 2015, 10, e0140936.	1.1	9
69	Discovering General Multidimensional Associations. <i>PLoS ONE</i> , 2016, 11, e0151551.	1.1	7
70	Evolutionary Analyses of Base-Pairing Interactions in DNA and RNA Secondary Structures. <i>Molecular Biology and Evolution</i> , 2020, 37, 576-592.	3.5	6
71	Maintenance and reappearance of extremely divergent intra-host HIV-1 variants. <i>Virus Evolution</i> , 2018, 4, vey030.	2.2	5
72	Full-Length Envelope Analyzer (FLEA): A tool for longitudinal analysis of viral amplicons. <i>PLoS Computational Biology</i> , 2018, 14, e1006498.	1.5	5

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73	Hepatitis C virus genotype 1 and 2 recombinant genomes and the phylogeographic history of the 2k/1b lineage. <i>Virus Evolution</i> , 2019, 5, vez041.	2.2	5
74	RIFRAF: a frame-resolving consensus algorithm. <i>Bioinformatics</i> , 2018, 34, 3817-3824.	1.8	4
75	Probabilistic classification of antiâ€SARSâ€CoVâ€2 antibody responses improves seroprevalence estimates. <i>Clinical and Translational Immunology</i> , 2022, 11, e1379.	1.7	4
76	Recombinant multimeric dog allergen prevents airway hyperresponsiveness in a model of asthma marked by vigorous <scp>T_H2</scp> and <scp>T_H17</scp> cell responses. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2022, 77, 2987-3001.	2.7	4
77	Inpatient viral diversity and treatment outcome in patients with genotype 3a hepatitis C virus infection on sofosbuvirâ€containing regimens. <i>Journal of Viral Hepatitis</i> , 2018, 25, 344-353.	1.0	3
78	HIV Coinfection Provides Insights for the Design of Vaccine Cocktails to Elicit Broadly Neutralizing Antibodies. <i>Journal of Virology</i> , 0, , .	1.5	0