

# Sarah Cobey

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/142901/publications.pdf>

Version: 2024-02-01

58  
papers

4,600  
citations

186265

28  
h-index

155660

55  
g-index

80  
all docs

80  
docs citations

80  
times ranked

6565  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-informed COVID-19 vaccine prioritization strategies by age and serostatus. <i>Science</i> , 2021, 371, 916-921.	12.6	588
2	Contemporary H3N2 influenza viruses have a glycosylation site that alters binding of antibodies elicited by egg-adapted vaccine strains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12578-12583.	7.1	437
3	Epochal Evolution Shapes the Phylodynamics of Interpandemic Influenza A (H3N2) in Humans. <i>Science</i> , 2006, 314, 1898-1903.	12.6	423
4	Practical considerations for measuring the effective reproductive number, Rt. <i>PLoS Computational Biology</i> , 2020, 16, e1008409.	3.2	343
5	Immune history and influenza virus susceptibility. <i>Current Opinion in Virology</i> , 2017, 22, 105-111.	5.4	199
6	Niche and Neutral Effects of Acquired Immunity Permit Coexistence of Pneumococcal Serotypes. <i>Science</i> , 2012, 335, 1376-1380.	12.6	163
7	Predicting the Epidemic Sizes of Influenza A/H1N1, A/H3N2, and B: A Statistical Method. <i>PLoS Medicine</i> , 2011, 8, e1001051.	8.4	153
8	Global Migration Dynamics Underlie Evolution and Persistence of Human Influenza A (H3N2). <i>PLoS Pathogens</i> , 2010, 6, e1000918.	4.7	151
9	Immune History and Influenza Vaccine Effectiveness. <i>Vaccines</i> , 2018, 6, 28.	4.4	148
10	Modeling infectious disease dynamics. <i>Science</i> , 2020, 368, 713-714.	12.6	129
11	Influenza Virus Vaccination Elicits Poorly Adapted B Cell Responses in Elderly Individuals. <i>Cell Host and Microbe</i> , 2019, 25, 357-366.e6.	11.0	124
12	Age-specific differences in the dynamics of protective immunity to influenza. <i>Nature Communications</i> , 2019, 10, 1660.	12.8	107
13	Concerns about SARS-CoV-2 evolution should not hold back efforts to expand vaccination. <i>Nature Reviews Immunology</i> , 2021, 21, 330-335.	22.7	98
14	Investigate the origins of COVID-19. <i>Science</i> , 2021, 372, 694-694.	12.6	92
15	Viral factors in influenza pandemic risk assessment. <i>ELife</i> , 2016, 5, .	6.0	82
16	Preexisting immunity shapes distinct antibody landscapes after influenza virus infection and vaccination in humans. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	77
17	Improving influenza vaccine virus selection Report of a WHO informal consultation held at WHO headquarters, Geneva, Switzerland, 14-16 June 2010. <i>Influenza and Other Respiratory Viruses</i> , 2012, 6, 142-152.	3.4	73
18	Strength and tempo of selection revealed in viral gene genealogies. <i>BMC Evolutionary Biology</i> , 2011, 11, 220.	3.2	69

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19	Pathogen evolution and the immunological niche. <i>Annals of the New York Academy of Sciences</i> , 2014, 1320, 1-15.	3.8	59
20	Recurring infection with ecologically distinct HPV types can explain high prevalence and diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13573-13578.	7.1	59
21	Trade-offs in antibody repertoires to complex antigens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140245.	4.0	54
22	Poor Immunogenicity, Not Vaccine Strain Egg Adaptation, May Explain the Low H3N2 Influenza Vaccine Effectiveness in 2012–2013. <i>Clinical Infectious Diseases</i> , 2018, 67, 327-333.	5.8	53
23	Earliest infections predict the age distribution of seasonal influenza A cases. <i>ELife</i> , 2020, 9, .	6.0	49
24	Limits to Causal Inference with State-Space Reconstruction for Infectious Disease. <i>PLoS ONE</i> , 2016, 11, e0169050.	2.5	44
25	Middle-aged individuals may be in a perpetual state of H3N2 influenza virus susceptibility. <i>Nature Communications</i> , 2020, 11, 4566.	12.8	43
26	Pathogen Diversity and Hidden Regimes of Apparent Competition. <i>American Naturalist</i> , 2013, 181, 12-24.	2.1	41
27	Spec-seq unveils transcriptional subpopulations of antibody-secreting cells following influenza vaccination. <i>Journal of Clinical Investigation</i> , 2018, 129, 93-105.	8.2	40
28	Fractionation of COVID-19 vaccine doses could extend limited supplies and reduce mortality. <i>Nature Medicine</i> , 2021, 27, 1321-1323.	30.7	35
29	The evolution within us. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140235.	4.0	34
30	Fighting microbial drug resistance: a primer on the role of evolutionary biology in public health. <i>Evolutionary Applications</i> , 2015, 8, 211-222.	3.1	34
31	COVID-19 Infection, Reinfection, and Vaccine Effectiveness in Arizona Frontline and Essential Workers: Protocol for a Longitudinal Cohort Study. <i>JMIR Research Protocols</i> , 2021, 10, e28925.	1.0	33
32	Host population structure and treatment frequency maintain balancing selection on drug resistance. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170295.	3.4	32
33	Comparison of Human H3N2 Antibody Responses Elicited by Egg-Based, Cell-Based, and Recombinant Protein-Based Influenza Vaccines During the 2017–2018 Season. <i>Clinical Infectious Diseases</i> , 2020, 71, 1447-1453.	5.8	27
34	Modeling comparative cost-effectiveness of SARS-CoV-2 vaccine dose fractionation in India. <i>Nature Medicine</i> , 2022, 28, 934-938.	30.7	27
35	Capturing escape in infectious disease dynamics. <i>Trends in Ecology and Evolution</i> , 2008, 23, 572-577.	8.7	26
36	PARIS and SPARTA: Finding the Achilles' Heel of SARS-CoV-2. <i>MSphere</i> , 2022, 7, e0017922.	2.9	25

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37	Consequences of host heterogeneity, epitope immunodominance, and immune breadth for strain competition. <i>Journal of Theoretical Biology</i> , 2011, 270, 80-87.	1.7	24
38	Explaining the geographical origins of seasonal influenza A (H3N2). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161312.	2.6	21
39	Does influenza drive absolute humidity?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2270-E2271.	7.1	20
40	Geographic and demographic heterogeneity of SARS-CoV-2 diagnostic testing in Illinois, USA, March to December 2020. <i>BMC Public Health</i> , 2021, 21, 1105.	2.9	19
41	Of variants and vaccines. <i>Cell</i> , 2021, 184, 6222-6223.	28.9	18
42	Lineage-specific protection and immune imprinting shape the age distributions of influenza B cases. <i>Nature Communications</i> , 2021, 12, 4313.	12.8	17
43	Incorporating temporal distribution of population-level viral load enables real-time estimation of COVID-19 transmission. <i>Nature Communications</i> , 2022, 13, 1155.	12.8	16
44	Selection and Neutral Mutations Drive Pervasive Mutability Losses in Long-Lived Anti-HIV B-Cell Lineages. <i>Molecular Biology and Evolution</i> , 2018, 35, 1135-1146.	8.9	15
45	CpG-creating mutations are costly in many human viruses. <i>Evolutionary Ecology</i> , 2020, 34, 339-359.	1.2	14
46	K-Pax2: Bayesian identification of cluster-defining amino acid positions in large sequence datasets. <i>Microbial Genomics</i> , 2015, 1, e000025.	2.0	12
47	The Hospital Microbiome Project: Meeting report for the 2nd Hospital Microbiome Project, Chicago, USA, January 15th, 2013. <i>Standards in Genomic Sciences</i> , 2013, 8, 571-579.	1.5	11
48	Estimating Vaccine-Driven Selection in Seasonal Influenza. <i>Viruses</i> , 2018, 10, 509.	3.3	8
49	An Egg-Derived Sulfated N-Acetylglucosamine Glycan Is an Antigenic Decoy of Influenza Virus Vaccines. <i>MBio</i> , 2021, 12, e0083821.	4.1	8
50	Ecological factors driving the long-term evolution of influenza's host range. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2803-2810.	2.6	7
51	Use of an individual-based model of pneumococcal carriage for planning a randomized trial of a whole-cell vaccine. <i>PLoS Computational Biology</i> , 2018, 14, e1006333.	3.2	6
52	The Potential Beneficial Effects of Vaccination on Antigenically Evolving Pathogens. <i>American Naturalist</i> , 2022, 199, 223-237.	2.1	6
53	Improvements in Severe Acute Respiratory Syndrome Coronavirus 2 Testing Cascade in the United States: Data From Serial Cross-sectional Assessments. <i>Clinical Infectious Diseases</i> , 2021, , .	5.8	5
54	Repeated Vaccination May Protect Children From Influenza Infection. <i>JAMA Network Open</i> , 2018, 1, e183730.	5.9	1

#	ARTICLE	IF	CITATIONS
55	Sick if you do, sick if you don't. <i>Nature Ecology and Evolution</i> , 2017, 1, 1602-1603.	7.8	0
56	Response to Skowronski and De Serres. <i>Clinical Infectious Diseases</i> , 2018, 67, 1476-1476.	5.8	0
57	Characterization of the immunologic repertoire: A quick start guide. <i>Immunological Reviews</i> , 2018, 284, 5-8.	6.0	0
58	SARS-CoV-2 Infection Among Pregnant People at Labor and Delivery and Changes in Infection Rates in the General Population: Lessons Learned From Illinois. <i>Public Health Reports</i> , 2022, , 003335492210918.	2.5	0