M Lipsitch

List of Publications by Year in descending order

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MLIDSITCH

#	Article	IF	CITATIONS
1	BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Mass Vaccination Setting. New England Journal of Medicine, 2021, 384, 1412-1423.	27.0	2,179
2	Projecting the transmission dynamics of SARS-CoV-2 through the postpandemic period. Science, 2020, 368, 860-868.	12.6	2,103
3	Transmission Dynamics and Control of Severe Acute Respiratory Syndrome. Science, 2003, 300, 1966-1970.	12.6	1,281
4	Covid-19 Breakthrough Infections in Vaccinated Health Care Workers. New England Journal of Medicine, 2021, 385, 1474-1484.	27.0	1,162
5	Estimating clinical severity of COVID-19 from the transmission dynamics in Wuhan, China. Nature Medicine, 2020, 26, 506-510.	30.7	1,067
6	How generation intervals shape the relationship between growth rates and reproductive numbers. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 599-604.	2.6	1,045
7	Defining the Epidemiology of Covid-19 — Studies Needed. New England Journal of Medicine, 2020, 382, 1194-1196.	27.0	986
8	Negative Controls. Epidemiology, 2010, 21, 383-388.	2.7	923
9	Serotype replacement in disease after pneumococcal vaccination. Lancet, The, 2011, 378, 1962-1973.	13.7	833
10	Effectiveness of a third dose of the BNT162b2 mRNA COVID-19 vaccine for preventing severe outcomes in Israel: an observational study. Lancet, The, 2021, 398, 2093-2100.	13.7	748
11	Safety of the BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting. New England Journal of Medicine, 2021, 385, 1078-1090.	27.0	735
12	Transmissibility of 1918 pandemic influenza. Nature, 2004, 432, 904-906.	27.8	698
13	Recognition of pneumolysin by Toll-like receptor 4 confers resistance to pneumococcal infection. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1966-1971.	7.1	627
14	Public health interventions and epidemic intensity during the 1918 influenza pandemic. Proceedings of the United States of America, 2007, 104, 7582-7587.	7.1	605
15	Model-informed COVID-19 vaccine prioritization strategies by age and serostatus. Science, 2021, 371, 916-921.	12.6	588
16	Absolute Humidity and the Seasonal Onset of Influenza in the Continental United States. PLoS Biology, 2010, 8, e1000316.	5.6	513
17	Evaluating treatment protocols to prevent antibiotic resistance. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12106-12111.	7.1	441
18	Interleukin-17A Mediates Acquired Immunity to Pneumococcal Colonization. PLoS Pathogens, 2008, 4, e1000159.	4.7	422

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19	Antimicrobial Use and Antimicrobial Resistance: A Population Perspective. Emerging Infectious Diseases, 2002, 8, 347-354.	4.3	407
20	Mycobacterium tuberculosis mutation rate estimates from different lineages predict substantial differences in the emergence of drug-resistant tuberculosis. Nature Genetics, 2013, 45, 784-790.	21.4	405
21	Use of whole genome sequencing to estimate the mutation rate of Mycobacterium tuberculosis during latent infection. Nature Genetics, 2011, 43, 482-486.	21.4	403
22	Antibiotics in agriculture and the risk to human health: how worried should we be?. Evolutionary Applications, 2015, 8, 240-247.	3.1	401
23	Population genomics of post-vaccine changes in pneumococcal epidemiology. Nature Genetics, 2013, 45, 656-663.	21.4	364
24	The epidemiology of antibiotic resistance in hospitals: Paradoxes and prescriptions. Proceedings of the United States of America, 2000, 97, 1938-1943.	7.1	359
25	Practical considerations for measuring the effective reproductive number, Rt. PLoS Computational Biology, 2020, 16, e1008409.	3.2	343
26	From The Cover: Ecological theory suggests that antimicrobial cycling will not reduce antimicrobial resistance in hospitals. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13285-13290.	7.1	330
27	CD4+ T cells mediate antibody-independent acquired immunity to pneumococcal colonization. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4848-4853.	7.1	321
28	Aggregated mobility data could help fight COVID-19. Science, 2020, 368, 145-146.	12.6	303
29	Association of Serotype with Risk of Death Due to Pneumococcal Pneumonia: A Metaâ€Analysis. Clinical Infectious Diseases, 2010, 51, 692-699.	5.8	297
30	Virulence and transmissibility of pathogens: what is the relationship?. Trends in Microbiology, 1997, 5, 31-37.	7.7	295
31	Estimates of the Prevalence of Pandemic (H1N1) 2009, United States, April–July 2009. Emerging Infectious Diseases, 2009, 15, 2004-2007.	4.3	290
32	The Population Genetics of Antibiotic Resistance. Clinical Infectious Diseases, 1997, 24, S9-S16.	5.8	267
33	Risk of clinical sequelae after the acute phase of SARS-CoV-2 infection: retrospective cohort study. BMJ, The, 2021, 373, n1098.	6.0	267
34	Bacterial Vaccines and Serotype Replacement: Lessons from <i>Haemophilus influenzae</i> and Prospects for <i>Streptococcus pneumoniae</i> . Emerging Infectious Diseases, 1999, 5, 336-345.	4.3	264
35	Pneumococcal Capsular Polysaccharide Structure Predicts Serotype Prevalence. PLoS Pathogens, 2009, 5, e1000476.	4.7	264
36	The Severity of Pandemic H1N1 Influenza in the United States, from April to July 2009: A Bayesian Analysis. PLoS Medicine, 2009, 6, e1000207.	8.4	262

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37	Genomic epidemiology of the <i>Escherichia coli</i> O104:H4 outbreaks in Europe, 2011. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3065-3070.	7.1	262
38	Continued Impact of Pneumococcal Conjugate Vaccine on Carriage in Young Children. Pediatrics, 2009, 124, e1-e11.	2.1	258
39	Viral Shedding and Clinical Illness in Naturally Acquired Influenza Virus Infections. Journal of Infectious Diseases, 2010, 201, 1509-1516.	4.0	258
40	On the Effect of Age on the Transmission of SARS-CoV-2 in Households, Schools, and the Community. Journal of Infectious Diseases, 2021, 223, 362-369.	4.0	257
41	Visualizing Pneumococcal Infections in the Lungs of Live Mice Using Bioluminescent Streptococcus pneumoniaeTransformed with a Novel Gram-Positive luxTransposon. Infection and Immunity, 2001, 69, 3350-3358.	2.2	256
42	Real-time influenza forecasts during the 2012–2013 season. Nature Communications, 2013, 4, 2837.	12.8	234
43	Cross-reactive memory T cells and herd immunity to SARS-CoV-2. Nature Reviews Immunology, 2020, 20, 709-713.	22.7	229
44	Antibiotic resistance—the interplay between antibiotic use in animals and human beings. Lancet Infectious Diseases, The, 2003, 3, 47-51.	9.1	227
45	Estimation of the reproductive number and the serial interval in early phase of the 2009 influenza A/H1N1 pandemic in the USA. Influenza and Other Respiratory Viruses, 2009, 3, 267-276.	3.4	226
46	Effectiveness of the BNT162b2 mRNA COVID-19 vaccine in pregnancy. Nature Medicine, 2021, 27, 1693-1695.	30.7	222
47	Vaccination against colonizing bacteria with multiple serotypes. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6571-6576.	7.1	219
48	The population dynamics of antimicrobial chemotherapy. Antimicrobial Agents and Chemotherapy, 1997, 41, 363-373.	3.2	219
49	Population Biology, Evolution, and Infectious Disease: Convergence and Synthesis. Science, 1999, 283, 806-809.	12.6	219
50	SARS-CoV-2 breakthrough infections in vaccinated individuals: measurement, causes and impact. Nature Reviews Immunology, 2022, 22, 57-65.	22.7	217
51	Fourth Dose of BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting. New England Journal of Medicine, 2022, 386, 1603-1614.	27.0	213
52	THE EVOLUTION OF VIRULENCE IN PATHOGENS WITH VERTICAL AND HORIZONTAL TRANSMISSION. Evolution; International Journal of Organic Evolution, 1996, 50, 1729-1741.	2.3	210
53	Geographic diversity and temporal trends of antimicrobial resistance in Streptococcus pneumoniae in the United States. Nature Medicine, 2003, 9, 424-430.	30.7	206
54	Understanding COVID-19 vaccine efficacy. Science, 2020, 370, 763-765.	12.6	200

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55	Influenza seasonality: Lifting the fog. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3645-3646.	7.1	197
56	Genomic epidemiology of Neisseria gonorrhoeae with reduced susceptibility to cefixime in the USA: a retrospective observational study. Lancet Infectious Diseases, The, 2014, 14, 220-226.	9.1	193
57	Genomic Epidemiology of Gonococcal Resistance to Extended-Spectrum Cephalosporins, Macrolides, and Fluoroquinolones in the United States, 2000–2013. Journal of Infectious Diseases, 2016, 214, 1579-1587.	4.0	186
58	Human Challenge Studies to Accelerate Coronavirus Vaccine Licensure. Journal of Infectious Diseases, 2020, 221, 1752-1756.	4.0	186
59	Origin and Proliferation of Multiple-Drug Resistance in Bacterial Pathogens. Microbiology and Molecular Biology Reviews, 2015, 79, 101-116.	6.6	183
60	Antiviral Resistance and the Control of Pandemic Influenza. PLoS Medicine, 2007, 4, e15.	8.4	182
61	Absolute Humidity and Pandemic Versus Epidemic Influenza. American Journal of Epidemiology, 2011, 173, 127-135.	3.4	178
62	Interference between Streptococcus pneumoniae and Staphylococcus aureus : In Vitro Hydrogen Peroxide-Mediated Killing by Streptococcus pneumoniae. Journal of Bacteriology, 2006, 188, 4996-5001.	2.2	172
63	Managing and Reducing Uncertainty in an Emerging Influenza Pandemic. New England Journal of Medicine, 2009, 361, 112-115.	27.0	172
64	Potential Biases in Estimating Absolute and Relative Case-Fatality Risks during Outbreaks. PLoS Neglected Tropical Diseases, 2015, 9, e0003846.	3.0	170
65	The rise and fall of antimicrobial resistance. Trends in Microbiology, 2001, 9, 438-444.	7.7	165
66	Weather-based prediction of Plasmodium falciparum malaria in epidemic-prone regions of Ethiopia I. Patterns of lagged weather effects reflect biological mechanisms. Malaria Journal, 2004, 3, 41.	2.3	164
67	Controlâ€Group Selection Importance in Studies of Antimicrobial Resistance: Examples Applied toPseudomonas aeruginosa,Enterococci, andEscherichia coli. Clinical Infectious Diseases, 2002, 34, 1558-1563.	5.8	163
68	Niche and Neutral Effects of Acquired Immunity Permit Coexistence of Pneumococcal Serotypes. Science, 2012, 335, 1376-1380.	12.6	163
69	Intranasal Immunization with Killed Unencapsulated Whole Cells Prevents Colonization and Invasive Disease by Capsulated Pneumococci. Infection and Immunity, 2001, 69, 4870-4873.	2.2	162
70	The analysis of hospital infection data using hidden Markov models. Biostatistics, 2004, 5, 223-237.	1.5	160
71	Antibody-Independent, Interleukin-17A-Mediated, Cross-Serotype Immunity to Pneumococci in Mice Immunized Intranasally with the Cell Wall Polysaccharide. Infection and Immunity, 2006, 74, 2187-2195.	2.2	156
72	Optimizing infectious disease interventions during an emerging epidemic. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 923-928.	7.1	154

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73	Predicting the Epidemic Sizes of Influenza A/H1N1, A/H3N2, and B: A Statistical Method. PLoS Medicine, 2011, 8, e1001051.	8.4	153
74	How Can Vaccines Contribute to Solving the Antimicrobial Resistance Problem?. MBio, 2016, 7, .	4.1	152
75	Within-Host Bacterial Diversity Hinders Accurate Reconstruction of Transmission Networks from Genomic Distance Data. PLoS Computational Biology, 2014, 10, e1003549.	3.2	148
76	Estimating epidemiologic dynamics from cross-sectional viral load distributions. Science, 2021, 373, .	12.6	148
77	Inefficient Cytotoxic T Lymphocyte–Mediated Killing of HIV-1–Infected Cells In Vivo. PLoS Biology, 2006, 4, e90.	5.6	147
78	Serum Serotypeâ€Specific Pneumococcal Anticapsular Immunoglobulin G Concentrations after Immunization with a 9â€Valent Conjugate Pneumococcal Vaccine Correlate with Nasopharyngeal Acquisition of Pneumococcus. Journal of Infectious Diseases, 2005, 192, 367-376.	4.0	146
79	Reopening Primary Schools during the Pandemic. New England Journal of Medicine, 2020, 383, 981-985.	27.0	142
80	Estimating the proportion of bystander selection for antibiotic resistance among potentially pathogenic bacterial flora. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11988-E11995.	7.1	141
81	Improving the Estimation of Influenza-Related Mortality Over a Seasonal Baseline. Epidemiology, 2012, 23, 829-838.	2.7	140
82	Inference of seasonal and pandemic influenza transmission dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2723-2728.	7.1	133
83	Evolution of antibiotic resistance is linked to any genetic mechanism affecting bacterial duration of carriage. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1075-1080.	7.1	133
84	The distribution of antibiotic use and its association with antibiotic resistance. ELife, 2018, 7, .	6.0	132
85	No coexistence for free: Neutral null models for multistrain pathogens. Epidemics, 2009, 1, 2-13.	3.0	130
86	Secular Trends in Helicobacter pylori Seroprevalence in Adults in the United States: Evidence for Sustained Race/Ethnic Disparities. American Journal of Epidemiology, 2012, 175, 54-59.	3.4	128
87	On the relative role of different age groups in influenza epidemics. Epidemics, 2015, 13, 10-16.	3.0	128
88	Diversity and Antibiotic Resistance among Nonvaccine Serotypes ofStreptococcus pneumoniaeCarriage Isolates in the Post–Heptavalent Conjugate Vaccine Era. Journal of Infectious Diseases, 2007, 195, 347-352.	4.0	127
89	Age- and Sex-related Risk Factors for Influenza-associated Mortality in the United States Between 1997–2007. American Journal of Epidemiology, 2014, 179, 156-167.	3.4	123
90	Frequency-dependent selection in vaccine-associated pneumococcal population dynamics. Nature Ecology and Evolution, 2017, 1, 1950-1960.	7.8	121

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91	Patterns of antigenic diversity and the mechanisms that maintain them. Journal of the Royal Society Interface, 2007, 4, 787-802.	3.4	120
92	Enhancing disease surveillance with novel data streams: challenges and opportunities. EPJ Data Science, 2015, 4, .	2.8	119
93	Measuring and Interpreting Associations between Antibiotic Use and Penicillin Resistance in Streptococcus pneumoniae. Clinical Infectious Diseases, 2001, 32, 1044-1054.	5.8	117
94	Epidemiologic Evidence for Serotype‧pecific Acquired Immunity to Pneumococcal Carriage. Journal of Infectious Diseases, 2008, 197, 1511-1518.	4.0	117
95	Antibiotics in agriculture: When is it time to close the barn door?. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5752-5754.	7.1	115
96	Are Anticapsular Antibodies the Primary Mechanism of Protection against Invasive Pneumococcal Disease?. PLoS Medicine, 2005, 2, e15.	8.4	115
97	Concentration-Dependent Selection of Small Phenotypic Differences in TEM β-Lactamase-Mediated Antibiotic Resistance. Antimicrobial Agents and Chemotherapy, 2000, 44, 2485-2491.	3.2	114
98	Age- and Serogroup-Related Differences in Observed Durations of Nasopharyngeal Carriage of Penicillin-Resistant Pneumococci. Journal of Clinical Microbiology, 2007, 45, 948-952.	3.9	113
99	Serotype specific invasive capacity and persistent reduction in invasive pneumococcal disease. Vaccine, 2010, 29, 283-288.	3.8	112
100	Competition among Streptococcus pneumoniae for intranasal colonization in a mouse model. Vaccine, 2000, 18, 2895-2901.	3.8	110
101	Oseltamivir and Risk of Lower Respiratory Tract Complications in Patients With Flu Symptoms: A Meta-analysis of Eleven Randomized Clinical Trials. Clinical Infectious Diseases, 2011, 53, 277-279.	5.8	110
102	Evaluation of post-introduction COVID-19 vaccine effectiveness: Summary of interim guidance of the World Health Organization. Vaccine, 2021, 39, 4013-4024.	3.8	110
103	Beneficial and perverse effects of isoniazid preventive therapy for latent tuberculosis infection in HIV-tuberculosis coinfected populations. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7042-7047.	7.1	107
104	Toward economic evaluation of the value of vaccines and other health technologies in addressing AMR. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12911-12919.	7.1	107
105	Ethical Alternatives to Experiments with Novel Potential Pandemic Pathogens. PLoS Medicine, 2014, 11, e1001646.	8.4	106
106	Risk of persistent and new clinical sequelae among adults aged 65 years and older during the post-acute phase of SARS-CoV-2 infection: retrospective cohort study. BMJ, The, 2022, 376, e068414.	6.0	105
107	The Use of Test-negative Controls to Monitor Vaccine Effectiveness. Epidemiology, 2020, 31, 43-64.	2.7	102
108	Decreased infectivity following BNT162b2 vaccination: A prospective cohort study in Israel. Lancet Regional Health - Europe, The, 2021, 7, 100150.	5.6	101

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109	Sequence tag–based analysis of microbial population dynamics. Nature Methods, 2015, 12, 223-226.	19.0	100
110	Preprints: An underutilized mechanism to accelerate outbreak science. PLoS Medicine, 2018, 15, e1002549.	8.4	100
111	Concerns about SARS-CoV-2 evolution should not hold back efforts to expand vaccination. Nature Reviews Immunology, 2021, 21, 330-335.	22.7	98
112	SpxB Is a Suicide Gene of <i>Streptococcus pneumoniae</i> and Confers a Selective Advantage in an In Vivo Competitive Colonization Model. Journal of Bacteriology, 2007, 189, 6532-6539.	2.2	97
113	Vaccine production, distribution, access, and uptake. Lancet, The, 2011, 378, 428-438.	13.7	97
114	Epidemiologic data and pathogen genome sequences: a powerful synergy for public health. Genome Biology, 2014, 15, 538.	8.8	97
115	Improving the evidence base for decision making during a pandemic: the example of 2009 influenza A/H1N1. Biosecurity and Bioterrorism, 2011, 9, 89-115.	1.2	97
116	The Prevalence and Risk Factors for Pneumococcal Colonization of the Nasopharynx among Children in Kilifi District, Kenya. PLoS ONE, 2012, 7, e30787.	2.5	96
117	Projected Benefits of Active Surveillance for Vancomycinâ€Resistant Enterococci in Intensive Care Units. Clinical Infectious Diseases, 2004, 38, 1108-1115.	5.8	94
118	Estimated Demand for US Hospital Inpatient and Intensive Care Unit Beds for Patients With COVID-19 Based on Comparisons With Wuhan and Guangzhou, China. JAMA Network Open, 2020, 3, e208297.	5.9	94
119	Seasonality of Antibioticâ€Resistant <i>Streptococcus pneumoniae</i> That Causes Acute Otitis Media: A Clue for an Antibioticâ€Restriction Policy?. Journal of Infectious Diseases, 2008, 197, 1094-1102.	4.0	93
120	Macrolide and Nonmacrolide Resistance with Mass Azithromycin Distribution. New England Journal of Medicine, 2020, 383, 1941-1950.	27.0	93
121	How to detect and reduce potential sources of biases in studies of SARS-CoV-2 and COVID-19. European Journal of Epidemiology, 2021, 36, 179-196.	5.7	93
122	Generation interval contraction and epidemic data analysis. Mathematical Biosciences, 2008, 213, 71-79.	1.9	92
123	Impact of More Than a Decade of Pneumococcal Conjugate Vaccine Use on Carriage and Invasive Potential in Native American Communities. Journal of Infectious Diseases, 2012, 205, 280-288.	4.0	92
124	Measurement of Vaccine Direct Effects Under the Test-Negative Design. American Journal of Epidemiology, 2018, 187, 2686-2697.	3.4	91
125	Reconstructing influenza incidence by deconvolution of daily mortality time series. Proceedings of the United States of America, 2009, 106, 21825-21829.	7.1	89
126	Population dynamics of tuberculosis treatment: mathematical models of the roles of non-compliance and bacterial heterogeneity in the evolution of drug resistance. International Journal of Tuberculosis and Lung Disease, 1998, 2, 187-99.	1.2	89

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127	The evolution of virulence in sexually transmitted HIV/AIDS. Journal of Theoretical Biology, 1995, 174, 427-440.	1.7	88
128	How to maintain surveillance for novel influenza A H1N1 when there are too many cases to count. Lancet, The, 2009, 374, 1209-1211.	13.7	87
129	Antibody-Independent, CD4 ⁺ T-Cell-Dependent Protection against Pneumococcal Colonization Elicited by Intranasal Immunization with Purified Pneumococcal Proteins. Infection and Immunity, 2007, 75, 5460-5464.	2.2	86
130	Host Population Structure and the Evolution of Virulence: A "Law of Diminishing Returns". Evolution; International Journal of Organic Evolution, 1995, 49, 743.	2.3	84
131	Shared Genomic Variants: Identification of Transmission Routes Using Pathogen Deep-Sequence Data. American Journal of Epidemiology, 2017, 186, 1209-1216.	3.4	84
132	What is the mechanism for persistent coexistence of drug-susceptible and drug-resistant strains of <i>Streptococcus pneumoniae</i> ?. Journal of the Royal Society Interface, 2010, 7, 905-919.	3.4	83
133	Streptococcus pneumoniae Capsular Serotype Invasiveness Correlates with the Degree of Factor H Binding and Opsonization with C3b/iC3b. Infection and Immunity, 2013, 81, 354-363.	2.2	83
134	Protection against Nasopharyngeal Colonization by <i>Streptococcus pneumoniae</i> Is Mediated by Antigen-Specific CD4 ⁺ T Cells. Infection and Immunity, 2008, 76, 2678-2684.	2.2	82
135	Observational studies and the difficult quest for causality: lessons from vaccine effectiveness and impact studies. International Journal of Epidemiology, 2016, 45, dyw124.	1.9	82
136	Viral factors in influenza pandemic risk assessment. ELife, 2016, 5, .	6.0	82
137	Effectiveness of BNT162b2 Vaccine against Delta Variant in Adolescents. New England Journal of Medicine, 2021, 385, 2101-2103.	27.0	82
138	Rates of Acquisition and Clearance of Pneumococcal Serotypes in the Nasopharynges of Children in Kilifi District, Kenya. Journal of Infectious Diseases, 2012, 206, 1020-1029.	4.0	79
139	Estimating Rates of Carriage Acquisition and Clearance and Competitive Ability for Pneumococcal Serotypes in Kenya With a Markov Transition Model. Epidemiology, 2012, 23, 510-519.	2.7	79
140	Nowcasting by Bayesian Smoothing: A flexible, generalizable model for real-time epidemic tracking. PLoS Computational Biology, 2020, 16, e1007735.	3.2	79
141	Infections, hospitalisations, and deaths averted via a nationwide vaccination campaign using the Pfizer–BioNTech BNT162b2 mRNA COVID-19 vaccine in Israel: a retrospective surveillance study. Lancet Infectious Diseases, The, 2022, 22, 357-366.	9.1	79
142	Association of the Pneumococcal Pilus with Certain Capsular Serotypes but Not with Increased Virulence. Journal of Clinical Microbiology, 2007, 45, 1684-1689.	3.9	78
143	Selective and Genetic Constraints on Pneumococcal Serotype Switching. PLoS Genetics, 2015, 11, e1005095.	3.5	78
144	Studies Needed to Address Public Health Challenges of the 2009 H1N1 Influenza Pandemic: Insights from Modeling. PLoS Medicine, 2010, 7, e1000275.	8.4	75

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145	Construction of Otherwise Isogenic Serotype 6B, 7F, 14, and 19F Capsular Variants of Streptococcus pneumoniae Strain TIGR4. Applied and Environmental Microbiology, 2003, 69, 7364-7370.	3.1	74
146	Hedging against Antiviral Resistance during the Next Influenza Pandemic Using Small Stockpiles of an Alternative Chemotherapy. PLoS Medicine, 2009, 6, e1000085.	8.4	72
147	Fractional dosing of yellow fever vaccine to extend supply: a modelling study. Lancet, The, 2016, 388, 2904-2911.	13.7	72
148	Microbiome as a tool and a target in the effort to address antimicrobial resistance. Proceedings of the United States of America, 2018, 115, 12902-12910.	7.1	72
149	Population impact of SARS-CoV-2 variants with enhanced transmissibility and/or partial immune escape. Cell, 2021, 184, 6229-6242.e18.	28.9	72
150	Changes in severity of 2009 pandemic A/H1N1 influenza in England: a Bayesian evidence synthesis. BMJ: British Medical Journal, 2011, 343, d5408-d5408.	2.3	71
151	Pneumococcal Carriage and Antibiotic Resistance in Young Children Before 13-valent Conjugate Vaccine. Pediatric Infectious Disease Journal, 2012, 31, 249-254.	2.0	71
152	Weather-based prediction of Plasmodium falciparum malaria in epidemic-prone regions of Ethiopia II. Weather-based prediction systems perform comparably to early detection systems in identifying times for interventions. Malaria Journal, 2004, 3, 44.	2.3	69
153	Comparative Genomics of Recent Shiga Toxin-Producing Escherichia coli O104:H4: Short-Term Evolution of an Emerging Pathogen. MBio, 2013, 4, e00452-12.	4.1	68
154	Diverse evolutionary patterns of pneumococcal antigens identified by pangenome-wide immunological screening. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E357-E366.	7.1	68
155	BNT162b2 Vaccine Effectiveness against Omicron in Children 5 to 11 Years of Age. New England Journal of Medicine, 2022, 387, 227-236.	27.0	68
156	Population genomic datasets describing the post-vaccine evolutionary epidemiology of Streptococcus pneumoniae. Scientific Data, 2015, 2, 150058.	5.3	67
157	Quantifying Interhospital Patient Sharing as a Mechanism for Infectious Disease Spread. Infection Control and Hospital Epidemiology, 2010, 31, 1160-1169.	1.8	65
158	Antibodies to Conserved Pneumococcal Antigens Correlate with, but Are Not Required for, Protection against Pneumococcal Colonization Induced by Prior Exposure in a Mouse Model. Infection and Immunity, 2005, 73, 7043-7046.	2.2	64
159	Simulations for designing and interpreting intervention trials in infectious diseases. BMC Medicine, 2017, 15, 223.	5.5	64
160	Incremental Increase in Fitness Cost with Increased Î²â€Łactam Resistance in Pneumococci Evaluated by Competition in an Infant Rat Nasal Colonization Model. Journal of Infectious Diseases, 2006, 193, 1296-1303.	4.0	63
161	Impaired Innate and Adaptive Immunity to <i>Streptococcus pneumoniae</i> and Its Effect on Colonization in an Infant Mouse Model. Infection and Immunity, 2009, 77, 1613-1622.	2.2	63
162	Is methicillin-resistant Staphylococcus aureus replacing methicillin-susceptible S. aureus?. Journal of Antimicrobial Chemotherapy, 2011, 66, 2199-2214.	3.0	63

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163	Virulence and transmission modes of two microsporidia in <i>Daphnia magna</i> . Parasitology, 1995, 111, 133-142.	1.5	62
164	Cholera Modeling. Epidemiology, 2012, 23, 523-530.	2.7	61
165	Re-emergence of the type 1 pilus among Streptococcus pneumoniae isolates in Massachusetts, USA. Vaccine, 2010, 28, 4842-4846.	3.8	60
166	Using Pneumococcal Carriage Data to Monitor Postvaccination Changes in Invasive Disease. American Journal of Epidemiology, 2013, 178, 1488-1495.	3.4	60
167	Modeling Community- and Individual-Level Effects of Child-Care Center Attendance on Pneumococcal Carriage. Clinical Infectious Diseases, 2005, 40, 1215-1222.	5.8	59
168	Trends in outpatient antibiotic use and prescribing practice among US older adults, 2011-15: observational study. BMJ: British Medical Journal, 2018, 362, k3155.	2.3	58
169	Using observational data to quantify bias of traveller-derived COVID-19 prevalence estimates in Wuhan, China. Lancet Infectious Diseases, The, 2020, 20, 803-808.	9.1	58
170	Interpreting Results from Trials of Pneumococcal Conjugate Vaccines: A Statistical Test for Detecting Vaccine-induced Increases in Carriage of Nonvaccine Serotypes. American Journal of Epidemiology, 2000, 154, 85-92.	3.4	57
171	Strain Characteristics ofStreptococcus pneumoniaeCarriage and Invasive Disease Isolates during a Clusterâ€Randomized Clinical Trial of the 7â€Valent Pneumococcal Conjugate Vaccine. Journal of Infectious Diseases, 2007, 196, 1221-1227.	4.0	56
172	Carried Pneumococci in Massachusetts Children. Pediatric Infectious Disease Journal, 2011, 30, 302-308.	2.0	55
173	Interpreting vaccine efficacy trial results for infection and transmission. Vaccine, 2021, 39, 4082-4088.	3.8	55
174	Surface Charge of Streptococcus pneumoniae Predicts Serotype Distribution. Infection and Immunity, 2013, 81, 4519-4524.	2.2	54
175	A Missing Dimension in Measures of Vaccination Impacts. PLoS Pathogens, 2014, 10, e1003849.	4.7	54
176	On the evolutionary ecology of multidrug resistance in bacteria. PLoS Pathogens, 2019, 15, e1007763.	4.7	54
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