Stephen D Bentley

List of Publications by Year in descending order

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41344 33894 11,997 104 49 99 citations h-index g-index papers 119 119 119 10225 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Widespread sharing of pneumococcal strains in a rural African setting: proximate villages are more likely to share similar strains that are carried at multiple timepoints. Microbial Genomics, 2022, 8, .	2.0	1
2	Serotype 1 pneumococcus: epidemiology, genomics, and disease mechanisms. Trends in Microbiology, 2022, 30, 581-592.	7.7	5
3	Comparative Genomics of Disease and Carriage Serotype 1 Pneumococci. Genome Biology and Evolution, 2022, 14 , .	2.5	3
4	Effect of childhood vaccination and antibiotic use on pneumococcal populations and genome-wide associations with disease among children in Nepal: an observational study. Lancet Microbe, The, 2022, 3, e503-e511.	7.3	2
5	Population genomics of pneumococcal carriage in South Africa following the introduction of the 13-valent pneumococcal conjugate vaccine (PCV13) immunization. Microbial Genomics, 2022, 8, .	2.0	4
6	Genetic background of Cambodian pneumococcal carriage isolates following pneumococcal conjugate vaccine 13. Microbial Genomics, 2022, 8, .	2.0	О
7	Distinct Streptococcus pneumoniae cause invasive disease in Papua New Guinea. Microbial Genomics, 2022, 8, .	2.0	O
8	Persistent and Emerging Pneumococcal Carriage Serotypes in a Rural Gambian Community After 10 Years of Pneumococcal Conjugate Vaccine Pressure. Clinical Infectious Diseases, 2021, 73, e3825-e3835.	5.8	4
9	Pneumococcal Colonization and Virulence Factors Identified Via Experimental Evolution in Infection Models. Molecular Biology and Evolution, 2021, 38, 2209-2226.	8.9	9
10	Apparent nosocomial adaptation of Enterococcus faecalis predates the modern hospital era. Nature Communications, 2021, 12, 1523.	12.8	69
11	Global genomic pathogen surveillance to inform vaccine strategies: a decade-long expedition in pneumococcal genomics. Genome Medicine, 2021, 13, 84.	8.2	12
12	Emergence and dissemination of antimicrobial resistance in Escherichia coli causing bloodstream infections in Norway in 2002–17: a nationwide, longitudinal, microbial population genomic study. Lancet Microbe, The, 2021, 2, e331-e341.	7. 3	43
13	The effect of recombination on the evolution of a population of <i>Neisseria meningitidis</i> Research, 2021, 31, 1258-1268.	5.5	4
14	The role of interspecies recombination in the evolution of antibiotic-resistant pneumococci. ELife, 2021, 10, .	6.0	21
15	Population genetic structure, serotype distribution and antibiotic resistance of Streptococcus pneumoniae causing invasive disease in children in Argentina. Microbial Genomics, 2021, 7, .	2.0	8
16	Streptococcus pneumoniae serotypes that frequently colonise the human nasopharynx are common recipients of penicillin-binding protein gene fragments from Streptococcus mitis. Microbial Genomics, 2021, 7, .	2.0	5
17	Streptococcus pneumoniae genomic datasets from an Indian population describing pre-vaccine evolutionary epidemiology using a whole genome sequencing approach. Microbial Genomics, 2021, 7, .	2.0	8
18	Genomic surveillance of invasive Streptococcus pneumoniae isolates in the period pre-PCV10 and post-PCV10 introduction in Brazil. Microbial Genomics, 2021, 7, .	2.0	6

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19	Early Signals of Vaccine-driven Perturbation Seen in Pneumococcal Carriage Population Genomic Data. Clinical Infectious Diseases, 2020, 70, 1294-1303.	5.8	9
20	Within-host microevolution of Streptococcus pneumoniae is rapid and adaptive during natural colonisation. Nature Communications, 2020, 11, 3442.	12.8	39
21	Genetic Variation in Neisseria meningitidis Does Not Influence Disease Severity in Meningococcal Meningitis. Frontiers in Medicine, 2020, 7, 594769.	2.6	8
22	A Nationwide Outbreak of Invasive Pneumococcal Disease in Israel Caused by Streptococcus Pneumoniae Serotype 2. Clinical Infectious Diseases, 2020, 73, e3768-e3777.	5.8	3
23	Producing polished prokaryotic pangenomes with the Panaroo pipeline. Genome Biology, 2020, 21, 180.	8.8	419
24	Investigation of sequential outbreaks of Burkholderia cepacia and multidrug-resistant extended spectrum Î ² -lactamase producing Klebsiella species in a West African tertiary hospital neonatal unit: a retrospective genomic analysis. Lancet Microbe, The, 2020, 1, e119-e129.	7.3	26
25	Bacterial genome-wide association study of hyper-virulent pneumococcal serotype 1 identifies genetic variation associated with neurotropism. Communications Biology, 2020, 3, 559.	4.4	11
26	Lineageâ€specific evolution and gene flow inListeria monocytogenesare independent of bacteriophages. Environmental Microbiology, 2020, 22, 5058-5072.	3.8	16
27	Carriage Dynamics of Pneumococcal Serotypes in Naturally Colonized Infants in a Rural African Setting During the First Year of Life. Frontiers in Pediatrics, 2020, 8, 587730.	1.9	8
28	Visualizing variation within Global Pneumococcal Sequence Clusters (GPSCs) and country population snapshots to contextualize pneumococcal isolates. Microbial Genomics, 2020, 6, .	2.0	25
29	Diversification in immunogenicity genes caused by selective pressures in invasive meningococci. Microbial Genomics, 2020, 6, .	2.0	6
30	Horizontal gene transfer rate is not the primary determinant of observed antibiotic resistance frequencies in <i>Streptococcus pneumoniae</i> . Science Advances, 2020, 6, eaaz6137.	10.3	19
31	The Contribution of Genetic Variation of Streptococcus pneumoniae to the Clinical Manifestation of Invasive Pneumococcal Disease. Clinical Infectious Diseases, 2019, 68, 61-69.	5.8	21
32	Genome-wide epistasis and co-selection study using mutual information. Nucleic Acids Research, 2019, 47, e112-e112.	14.5	36
33	Synergistic Activity of Mobile Genetic Element Defences in Streptococcus pneumoniae. Genes, 2019, 10, 707.	2.4	6
34	Fast and flexible bacterial genomic epidemiology with PopPUNK. Genome Research, 2019, 29, 304-316.	5.5	258
35	Atlas of group A streptococcal vaccine candidates compiled using large-scale comparative genomics. Nature Genetics, 2019, 51, 1035-1043.	21.4	120
36	Pneumococcal lineages associated with serotype replacement and antibiotic resistance in childhood invasive pneumococcal disease in the post-PCV13 era: an international whole-genome sequencing study. Lancet Infectious Diseases, The, 2019, 19, 759-769.	9.1	165

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37	Fast hierarchical Bayesian analysis of population structure. Nucleic Acids Research, 2019, 47, 5539-5549.	14.5	173
38	Joint sequencing of human and pathogen genomes reveals the genetics of pneumococcal meningitis. Nature Communications, 2019, 10, 2176.	12.8	83
39	International genomic definition of pneumococcal lineages, to contextualise disease, antibiotic resistance and vaccine impact. EBioMedicine, 2019, 43, 338-346.	6.1	168
40	PANINI: Pangenome Neighbour Identification for Bacterial Populations. Microbial Genomics, 2019, 5, .	2.0	27
41	Putative novel cps loci in a large global collection of pneumococci. Microbial Genomics, 2019, 5, .	2.0	14
42	Excision-reintegration at a pneumococcal phase-variable restriction-modification locus drives within-and between-strain epigenetic differentiation and inhibits gene acquisition. Nucleic Acids Research, 2018, 46, 11438-11453.	14.5	26
43	Global emergence and population dynamics of divergent serotype 3 CC180 pneumococci. PLoS Pathogens, 2018, 14, e1007438.	4.7	74
44	Evaluation of phylogenetic reconstruction methods using bacterial whole genomes: a simulation based study. Wellcome Open Research, 2018, 3, 33.	1.8	42
45	pyseer: a comprehensive tool for microbial pangenome-wide association studies. Bioinformatics, 2018, 34, 4310-4312.	4.1	208
46	Bayesian inference of ancestral dates on bacterial phylogenetic trees. Nucleic Acids Research, 2018, 46, e134-e134.	14.5	174
47	SeroBA: rapid high-throughput serotyping of Streptococcus pneumoniae from whole genome sequence data. Microbial Genomics, 2018, 4, .	2.0	68
48	RhierBAPS: An R implementation of the population clustering algorithm hierBAPS. Wellcome Open Research, 2018, 3, 93.	1.8	198
49	Pneumococcal Capsule Synthesis Locus cps as Evolutionary Hotspot with Potential to Generate Novel Serotypes by Recombination. Molecular Biology and Evolution, 2017, 34, 2537-2554.	8.9	65
50	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
51	Frequency-dependent selection in vaccine-associated pneumococcal population dynamics. Nature Ecology and Evolution, 2017, 1, 1950-1960.	7.8	121
52	Phase-variable methylation and epigenetic regulation by type I restriction–modification systems. FEMS Microbiology Reviews, 2017, 41, S3-S15.	8.6	110
53	Population genetic structure, antibiotic resistance, capsule switching and evolution of invasive pneumococci before conjugate vaccination in Malawi. Vaccine, 2017, 35, 4594-4602.	3.8	27
54	Methicillin-resistant Staphylococcus aureus emerged long before the introduction of methicillin into clinical practice. Genome Biology, 2017, 18, 130.	8.8	193

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55	Large scale genomic analysis shows no evidence for pathogen adaptation between the blood and cerebrospinal fluid niches during bacterial meningitis. Microbial Genomics, 2017, 3, e000103.	2.0	53
56	Pre-vaccine serotype composition within a lineage signposts its serotype replacement – a carriage study over 7 years following pneumococcal conjugate vaccine use in the UK. Microbial Genomics, 2017, 3, e000119.	2.0	26
57	Genome-wide identification of lineage and locus specific variation associated with pneumococcal carriage duration. ELife, 2017, 6, .	6.0	95
58	Sequence element enrichment analysis to determine the genetic basis of bacterial phenotypes. Nature Communications, 2016, 7, 12797.	12.8	190
59	Whole-Genome Sequencing for Routine Pathogen Surveillance in Public Health: a Population Snapshot of Invasive Staphylococcus aureus in Europe. MBio, 2016, 7, .	4.1	192
60	Recombination in Streptococcus pneumoniae Lineages Increase with Carriage Duration and Size of the Polysaccharide Capsule. MBio, $2016, 7, .$	4.1	50
61	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
62	Understanding pneumococcal serotype 1 biology through population genomic analysis. BMC Infectious Diseases, 2016, 16, 649.	2.9	22
63	Comparative Genomics of Carriage and Disease Isolates of <i>Streptococcus pneumoniae </i> Serotype 22F Reveals Lineage-Specific Divergence and Niche Adaptation. Genome Biology and Evolution, 2016, 8, 1243-1251.	2.5	8
64	Phylogenetic Analysis of Invasive Serotype 1 Pneumococcus in South Africa, 1989 to 2013. Journal of Clinical Microbiology, 2016, 54, 1326-1334.	3.9	16
65	Horizontal DNA Transfer Mechanisms of Bacteria as Weapons of Intragenomic Conflict. PLoS Biology, 2016, 14, e1002394.	5.6	127
66	Population genomic datasets describing the post-vaccine evolutionary epidemiology of Streptococcus pneumoniae. Scientific Data, 2015, 2, 150058.	5.3	67
67	The post-vaccine microevolution of invasive Streptococcus pneumoniae. Scientific Reports, 2015, 5, 14952.	3.3	36
68	Selective and Genetic Constraints on Pneumococcal Serotype Switching. PLoS Genetics, 2015, 11, e1005095.	3.5	78
69	Climate induces seasonality in pneumococcal transmission. Scientific Reports, 2015, 5, 11344.	3.3	41
70	Rapid phylogenetic analysis of large samples of recombinant bacterial whole genome sequences using Gubbins. Nucleic Acids Research, 2015, 43, e15-e15.	14.5	1,834
71	High multiple carriage and emergence of Streptococcus pneumoniae vaccine serotype variants in Malawian children. BMC Infectious Diseases, 2015, 15, 234.	2.9	56
72	Genomic signatures of human and animal disease in the zoonotic pathogen Streptococcus suis. Nature Communications, 2015, 6, 6740.	12.8	124

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73	Comparative Genomic Analysis of Meningitis- and Bacteremia-Causing Pneumococci Identifies a Common Core Genome. Infection and Immunity, 2015, 83, 4165-4173.	2.2	23
74	Region-specific diversification of the highly virulent serotype 1 Streptococcus pneumoniae. Microbial Genomics, 2015, 1, e000027.	2.0	27
75	Comprehensive Identification of Single Nucleotide Polymorphisms Associated with Beta-lactam Resistance within Pneumococcal Mosaic Genes. PLoS Genetics, 2014, 10, e1004547.	3.5	205
76	Defining the Estimated Core Genome of Bacterial Populations Using a Bayesian Decision Model. PLoS Computational Biology, 2014, 10, e1003788.	3.2	72
77	Heterogeneity in the Frequency and Characteristics of Homologous Recombination in Pneumococcal Evolution. PLoS Genetics, 2014, 10, e1004300.	3.5	84
78	Diversification of bacterial genome content through distinct mechanisms over different timescales. Nature Communications, 2014, 5, 5471.	12.8	173
79	Emergence of a New Epidemic Neisseria meningitidis Serogroup A Clone in the African Meningitis Belt: High-Resolution Picture of Genomic Changes That Mediate Immune Evasion. MBio, 2014, 5, e01974-14.	4.1	51
80	Cryptic ecology among host generalist <i>Campylobacter jejuni</i> in domestic animals. Molecular Ecology, 2014, 23, 2442-2451.	3.9	131
81	Evidence for Soft Selective Sweeps in the Evolution of Pneumococcal Multidrug Resistance and Vaccine Escape. Genome Biology and Evolution, 2014, 6, 1589-1602.	2.5	112
82	Variable recombination dynamics during the emergence, transmission and †disarming†of a multidrug-resistant pneumococcal clone. BMC Biology, 2014, 12, 49.	3.8	75
83	Two-phase importance sampling for inference about transmission trees. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141324.	2.6	22
84	Global Phylogenomic Analysis of Nonencapsulated (i) Streptococcus pneumoniae (i) Reveals a Deep-Branching Classic Lineage That Is Distinct from Multiple Sporadic Lineages. Genome Biology and Evolution, 2014, 6, 3281-3294.	2.5	63
85	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
86	Whole-genome sequencing reveals clonal expansion of multiresistant Staphylococcus haemolyticus in European hospitals. Journal of Antimicrobial Chemotherapy, 2014, 69, 2920-2927.	3.0	48
87	Dense genomic sampling identifies highways of pneumococcal recombination. Nature Genetics, 2014, 46, 305-309.	21.4	371
88	Inferring patient to patient transmission of Mycobacterium tuberculosisfrom whole genome sequencing data. BMC Infectious Diseases, 2013, 13, 110.	2.9	180
89	Population genomics of post-vaccine changes in pneumococcal epidemiology. Nature Genetics, 2013, 45, 656-663.	21.4	364
90	Description and Nomenclature of <i>Neisseria meningitidis </i> Capsule Locus. Emerging Infectious Diseases, 2013, 19, 566-573.	4.3	259

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91	Dominant Role of Nucleotide Substitution in the Diversification of Serotype 3 Pneumococci over Decades and during a Single Infection. PLoS Genetics, 2013, 9, e1003868.	3.5	81
92	Genome-wide association study identifies vitamin B ₅ biosynthesis as a host specificity factor in <i>Campylobacter</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11923-11927.	7.1	267
93	A High-Resolution View of Genome-Wide Pneumococcal Transformation. PLoS Pathogens, 2012, 8, e1002745.	4.7	98
94	Detection of recombination events in bacterial genomes from large population samples. Nucleic Acids Research, 2012, 40, e6-e6.	14.5	179
95	The multidrug-resistant PMEN1 pneumococcus is a paradigm for genetic success. Genome Biology, 2012, 13, R103.	9.6	62
96	Phylogeographic variation in recombination rates within a global clone of methicillin-resistant Staphylococcus aureus. Genome Biology, 2012, 13, R126.	9.6	118
97	Genetic Characterisation of Malawian Pneumococci Prior to the Roll-Out of the PCV13 Vaccine Using a High-Throughput Whole Genome Sequencing Approach. PLoS ONE, 2012, 7, e44250.	2.5	49
98	Rapid Pneumococcal Evolution in Response to Clinical Interventions. Science, 2011, 331, 430-434.	12.6	828
99	Improved Detection of Nasopharyngeal Cocolonization by Multiple Pneumococcal Serotypes by Use of Latex Agglutination or Molecular Serotyping by Microarray. Journal of Clinical Microbiology, 2011, 49, 1784-1789.	3.9	134
100	Independent evolution of the core and accessory gene sets in the genus Neisseria: insights gained from the genome of Neisseria lactamica isolate 020-06. BMC Genomics, 2010, 11, 652.	2.8	61
101	Structure and dynamics of the pan-genome of Streptococcus pneumoniae and closely related species. Genome Biology, 2010, 11, R107.	8.8	321
102	Role of Conjugative Elements in the Evolution of the Multidrug-Resistant Pandemic Clone <i>Streptococcus pneumoniae</i> ^{Spain23F} ST81. Journal of Bacteriology, 2009, 191, 1480-1489.	2.2	168
103	Genetic Analysis of the Capsular Biosynthetic Locus from All 90 Pneumococcal Serotypes. PLoS Genetics, 2006, 2, e31.	3.5	661
104	Evaluation of phylogenetic reconstruction methods using bacterial whole genomes: a simulation based study. Wellcome Open Research, 0, 3, 33.	1.8	18