Andrew Preston

List of Publications by Year
in descending order

68 papers	3,844 citations	186265 28 h-index	128289 60 g-index
72 all docs	72 docs citations	72 times ranked	3644 citing authors

#	Article	IF	Citations
1	Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica. Nature Genetics, 2003, 35, 32-40.	21.4	898
2	Nonâ€typeable Haemophilus influenzae adhere to and invade human bronchial epithelial cells via an interaction of lipooligosaccharide with the PAF receptor. Molecular Microbiology, 2000, 37, 13-27.	2.5	292
3	The Lipooligosaccharides of Pathogenic Gram-Negative Bacteria. Critical Reviews in Microbiology, 1996, 22, 139-180.	6.1	274
4	Global Population Structure and Evolution of Bordetella pertussis and Their Relationship with Vaccination. MBio, 2014, 5, e01074.	4.1	257
5	Reverse Transcriptase-Mediated Tropism Switching in Bordetella Bacteriophage. Science, 2002, 295, 2091-2094.	12.6	247
6	Multiple Roles for Bordetella Lipopolysaccharide Molecules during Respiratory Tract Infection. Infection and Immunity, 2000, 68, 6720-6728.	2.2	113
7	The Bordetellae: lessons from genomics. Nature Reviews Microbiology, 2004, 2, 379-390.	28.6	96
8	Bordetella bronchiseptica PagP is a Bvg-regulated lipid A palmitoyl transferase that is required for persistent colonization of the mouse respiratory tract. Molecular Microbiology, 2003, 48, 725-736.	2.5	95
9	Genomic and Genetic Analysis of Bordetella Bacteriophages Encoding Reverse Transcriptase-Mediated Tropism-Switching Cassettes. Journal of Bacteriology, 2004, 186, 1503-1517.	2.2	81
10	Genomic Analysis of Isolates From the United Kingdom 2012 Pertussis Outbreak Reveals That Vaccine Antigen Genes Are Unusually Fast Evolving. Journal of Infectious Diseases, 2015, 212, 294-301.	4.0	79
11	Comparison of the Genome Sequence of the Poultry Pathogen Bordetella avium with Those of B. bronchiseptica , B. pertussis , and B. parapertussis Reveals Extensive Diversity in Surface Structures Associated with Host Interaction. Journal of Bacteriology, 2006, 188, 6002-6015.	2.2	75
12	Genetic Basis for Lipopolysaccharide O-Antigen Biosynthesis in Bordetellae. Infection and Immunity, 1999, 67, 3763-3767.	2.2	74
13	Acquisition and loss of virulence-associated factors during genome evolution and speciation in three clades of Bordetella species. BMC Genomics, 2016, 17, 767.	2.8	70
14	PERISCOPE: road towards effective control of pertussis. Lancet Infectious Diseases, The, 2019, 19, e179-e186.	9.1	67
15	Bordetella pertussis epidemiology and evolution in the light of pertussis resurgence. Infection, Genetics and Evolution, 2016, 40, 136-143.	2.3	64
16	Comparative Toll-Like Receptor 4-Mediated Innate Host Defense to Bordetella Infection. Infection and Immunity, 2005, 73, 8144-8152.	2.2	63
17	Role of Bordetella O Antigen in Respiratory Tract Infection. Infection and Immunity, 2003, 71, 86-94.	2.2	60
18	Complete Structures of Bordetella bronchiseptica and Bordetella parapertussis Lipopolysaccharides. Journal of Biological Chemistry, 2006, 281, 18135-18144.	3.4	55

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19	pagP Is Required for Resistance to Antibody-Mediated Complement Lysis during Bordetella bronchiseptica Respiratory Infection. Infection and Immunity, 2004, 72, 2837-2842.	2.2	54
20	Proteus mirabilis fimbriae (PMF) are important for both bladder and kidney colonization in mice. Microbiology (United Kingdom), 2003, 149, 3231-3237.	1.8	53
21	Bacterial toxins: Offensive, defensive, or something else altogether?. PLoS Pathogens, 2017, 13, e1006452.	4.7	53
22	Ciliostasis is a key early event during colonization of canine tracheal tissue by Bordetella bronchiseptica. Microbiology (United Kingdom), 2004, 150, 2843-2855.	1.8	47
23	Controlled Human Infection With Bordetella pertussis Induces Asymptomatic, Immunizing Colonization. Clinical Infectious Diseases, 2020, 71, 403-411.	5.8	40
24	Mannose-resistantProteus-like andP. mirabilisfimbriae have specific and additive roles inP. mirabilisurinary tract infections. FEMS Immunology and Medical Microbiology, 2007, 51, 125-133.	2.7	36
25	New aspects of the role of MR/P fimbriae inProteus mirabilisurinary tract infection. FEMS Immunology and Medical Microbiology, 2001, 31, 113-120.	2.7	34
26	Relaxed Acyl Chain Specificity of Bordetella UDP-N-acetylglucosamine Acyltransferases. Journal of Biological Chemistry, 2002, 277, 18281-18290.	3.4	33
27	Oligosaccharide conjugates of Bordetella pertussis and bronchiseptica induce bactericidal antibodies, an addition to pertussis vaccine. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4087-4092.	7.1	32
28	Altered lipopolysaccharide characteristic of the I69 phenotype in Haemophilus influenzae results from mutations in a novel gene, isn. Journal of Bacteriology, 1996, 178, 396-402.	2.2	31
29	Biosynthesis of a Rare Di-N-Acetylated Sugar in the Lipopolysaccharides of both Pseudomonas aeruginosa and Bordetella pertussis Occurs via an Identical Scheme despite Different Gene Clusters. Journal of Bacteriology, 2008, 190, 6060-6069.	2.2	28
30	Bordetella pertussisevolution in the (functional) genomics era. Pathogens and Disease, 2015, 73, ftv064.	2.0	25
31	Choosing a Cloning Vector. , 2003, 235, 19-26.		24
32	Expression of the Primary Carbohydrate Component of the Bordetella bronchiseptica Biofilm Matrix Is Dependent on Growth Phase but Independent of Bvg Regulation. Journal of Bacteriology, 2006, 188, 6680-6687.	2.2	23
33	Resolving the complex Bordetella pertussis genome using barcoded nanopore sequencing. Microbial Genomics, 2018, 4, .	2.0	22
34	Identification and biochemical characterization of two novel UDP-2,3-diacetamido-2,3-dideoxy-Î±-<scp>D</scp>-glucuronic acid 2-epimerases from respiratory pathogens. Biochemical Journal, 2007, 405, 123-130.	3.7	21
35	Predicting Protein Function from Structureâ€"The Roles of Short-chain Dehydrogenase/Reductase Enzymes in Bordetella O-antigen Biosynthesis. Journal of Molecular Biology, 2007, 374, 749-763.	4.2	21
36	Enzymatic Modification of Lipid A by ArnT Protects Bordetella bronchiseptica against Cationic Peptides and Is Required for Transmission. Infection and Immunity, 2014, 82, 491-499.	2.2	21

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37	Evidence for Horizontal Gene Transfer of Two Antigenically Distinct O Antigens in Bordetella bronchiseptica. Infection and Immunity, 2009, 77, 3249-3257.	2.2	20
38	Bordetella pertussis isolates vary in their interactions with human complement components. Emerging Microbes and Infections, 2018, 7, 1-11.	6.5	20
39	Mucosal immunisation of murine neonates using whole cell and acellular Pertussis vaccines. Vaccine, 2004, 22, 3595-3602.	3.8	19
40	Bordetella pertussis: the intersection of genomics and pathobiology. Cmaj, 2005, 173, 55-62.	2.0	18
41	The O Antigen Is a Critical Antigen for the Development of a Protective Immune Response to Bordetella parapertussis. Infection and Immunity, 2009, 77, 5050-5058.	2.2	16
42	Mutational analysis of the Bordetella pertussis wlb LPS biosynthesis locus. Microbial Pathogenesis, 2002, 33, 91-95.	2.9	15
43	Chemical synthesis of UDP-Glc-2,3-diNAcA, a key intermediate in cell surface polysaccharide biosynthesis in the human respiratory pathogens B. pertussis and P. aeruginosa. Organic and Biomolecular Chemistry, 2009, 7, 1203.	2.8	14
44	Horizontally acquired divergent O-antigen contributes to escape from cross-immunity in the classical bordetellae. BMC Evolutionary Biology, 2013, 13, 209.	3.2	13
45	The role ofB. pertussisvaccine antigen gene variants in pertussis resurgence and possible consequences for vaccine development. Human Vaccines and Immunotherapeutics, 2016, 12, 1274-1276.	3.3	11
46	How Genomics Is Changing What We Know About the Evolution and Genome of Bordetella pertussis. Advances in Experimental Medicine and Biology, 2019, 1183, 1-17.	1.6	11
47	IEIIS Meeting minireview: Bordetella evolution: lipid A and Toll-like receptor 4. Journal of Endotoxin Research, 2007, 13, 243-247.	2.5	10
48	Antigenic Variation among Bordetella. Journal of Biological Chemistry, 2010, 285, 26869-26877.	3.4	10
49	Comparative genomic analyses of the Taylorellae. Veterinary Microbiology, 2012, 159, 195-203.	1.9	9
50	The evolution of Bordetella pertussis has selected for mutations of acr that lead to sensitivity to hydrophobic molecules and fatty acids. Emerging Microbes and Infections, 2019, 8, 603-612.	6.5	9
51	Molecular genetics and role in infection of environmentally regulated lipopolysaccharide expression. International Journal of Medical Microbiology, 2002, 292, 7-15.	3.6	8
52	Post-assembly Modification of Bordetella bronchiseptica O Polysaccharide by a Novel Periplasmic Enzyme Encoded by wbmE. Journal of Biological Chemistry, 2009, 284, 1474-1483.	3.4	8
53	The Bordetella avium BAV1965 - 1962 Fimbrial Locus Is Regulated by Temperature and Produces Fimbriae Involved in Adherence to Turkey Tracheal Tissue. Infection and Immunity, 2011, 79, 2423-2429.	2.2	8
54	Bordetella parapertussis PagP Mediates the Addition of Two Palmitates to the Lipopolysaccharide Lipid A. Journal of Bacteriology, 2015, 197, 572-580.	2.2	8

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55	An Extracellular Polysaccharide Locus Required for Transmission of Bordetella bronchiseptica. Journal of Infectious Diseases, 2017, 216, 899-906.	4.0	8
56	A curated genome-scale metabolic model of Bordetella pertussis metabolism. PLoS Computational Biology, 2017, 13, e1005639.	3.2	8
57	Fundamental differences in physiology of Bordetella pertussis dependent on the two-component system Bvg revealed by gene essentiality studies. Microbial Genomics, 2020, 6, .	2.0	8
58	Plasticity of fimbrial genotype and serotype within populations of Bordetella pertussis: analysis by paired flow cytometry and genome sequencing. Microbiology (United Kingdom), 2014, 160, 2030-2044.	1.8	7
59	Invited review: The molecular genetics and role in infection of lipopolysaccharide biosynthesis in the Bordetellae. Journal of Endotoxin Research, 2001, 7, 251-261.	2.5	6
60	A New Era of Research into Bordetella pertussis Pathogenesis. Journal of Infection, 2002, 44, 13-16.	3.3	5
61	Investigation of core machinery for biosynthesis of Vi antigen capsular polysaccharides in Gram-negative bacteria. Journal of Biological Chemistry, 2022, 298, 101486.	3.4	4
62	Overexpression, purification, crystallization and data collection on theBordetella pertussis wlbD gene product, a putative UDP-GlcNAc 2â€²-epimerase. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1310-1312.	2.5	3
63	A qPCR assay for Bordetella pertussis cells that enumerates both live and dead bacteria. PLoS ONE, 2020, 15, e0232334.	2.5	3
64	Cloning, expression, purification and preliminary crystallographic analysis of the short-chain dehydrogenase enzymes WbmF, WbmG and WbmH fromBordetella bronchiseptica. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 711-715.	0.7	2
65	Comparative genomics of Bordetella pertussis isolates from New Zealand, a country with an uncommonly high incidence of whooping cough. Microbial Genomics, 2022, 8, .	2.0	2
66	Biochemical and Structural Analysis of the Role of the Wlb Gene Locus in Bordetella Pertussis Lipopolysaccharide Biosynthesis. Scientific World Journal, The, 2002, 2, 55-56.	2.1	1
67	Evolution ofBordetella pertussisandBordetella parapertussisas Deduced from Comparative Genome Analyses. , 0, , 397-405.		0
68	Towards comprehensive understanding of bacterial genetic diversity: large-scale amplifications in Bordetella pertussis and Mycobacterium tuberculosis. Microbial Genomics, 2022, 8, .	2.0	0