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	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
2	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
3	Towards comprehensive understanding of bacterial genetic diversity: large-scale amplifications in Bordetella pertussis and Mycobacterium tuberculosis. Microbial Genomics, 2022, 8, .	2.0	0
4	Controlled Human Infection With Bordetella pertussis Induces Asymptomatic, Immunizing Colonization. Clinical Infectious Diseases, 2020, 71, 403-411.	5.8	40
5	A qPCR assay for Bordetella pertussis cells that enumerates both live and dead bacteria. PLoS ONE, 2020, 15, e0232334.	2.5	3
6	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
7	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
8	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
9	PERISCOPE: road towards effective control of pertussis. Lancet Infectious Diseases, The, 2019, 19, e179-e186.	9.1	67
10	Bordetella pertussis isolates vary in their interactions with human complement components. Emerging Microbes and Infections, 2018, 7, 1-11.	6.5	20
11	Resolving the complex Bordetella pertussis genome using barcoded nanopore sequencing. Microbial Genomics, 2018, 4, .	2.0	22
12	An Extracellular Polysaccharide Locus Required for Transmission of Bordetella bronchiseptica. Journal of Infectious Diseases, 2017, 216, 899-906.	4.0	8
13	Bacterial toxins: Offensive, defensive, or something else altogether?. PLoS Pathogens, 2017, 13, e1006452.	4.7	53
14	A curated genome-scale metabolic model of Bordetella pertussis metabolism. PLoS Computational Biology, 2017, 13, e1005639.	3.2	8
15	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
16	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
17	Bordetella pertussis epidemiology and evolution in the light of pertussis resurgence. Infection, Genetics and Evolution, 2016, 40, 136-143.	2.3	64
18	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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19	Bordetella pertussisevolution in the (functional) genomics era. Pathogens and Disease, 2015, 73, ftv064.	2.0	25
20	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
21	Global Population Structure and Evolution of Bordetella pertussis and Their Relationship with Vaccination. MBio, 2014, 5, e01074.	4.1	257
22	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
23	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
24	Horizontally acquired divergent O-antigen contributes to escape from cross-immunity in the classical bordetellae. BMC Evolutionary Biology, 2013, 13, 209.	3.2	13
25	Comparative genomic analyses of the Taylorellae. Veterinary Microbiology, 2012, 159, 195-203.	1.9	9
26	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
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	Antigenic Variation among Bordetella. Journal of Biological Chemistry, 2010, 285, 26869-26877.	3.4	10
29	Evidence for Horizontal Gene Transfer of Two Antigenically Distinct O Antigens in Bordetella bronchiseptica. Infection and Immunity, 2009, 77, 3249-3257.	2.2	20
30	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
31	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
32	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
33	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
34	IEIIS Meeting minireview: Bordetella evolution: lipid A and Toll-like receptor 4. Journal of Endotoxin Research, 2007, 13, 243-247.	2.5	10
35	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
36	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

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37	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
38	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
39	Complete Structures of Bordetella bronchiseptica and Bordetella parapertussis Lipopolysaccharides. Journal of Biological Chemistry, 2006, 281, 18135-18144.	3.4	55
40	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
41	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
42	Comparative Toll-Like Receptor 4-Mediated Innate Host Defense to Bordetella Infection. Infection and Immunity, 2005, 73, 8144-8152.	2.2	63
43	Bordetella pertussis: the intersection of genomics and pathobiology. Cmaj, 2005, 173, 55-62.	2.0	18
44	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
45	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
46	Genomic and Genetic Analysis of Bordetella Bacteriophages Encoding Reverse Transcriptase-Mediated Tropism-Switching Cassettes. Journal of Bacteriology, 2004, 186, 1503-1517.	2.2	81
47	The Bordetellae: lessons from genomics. Nature Reviews Microbiology, 2004, 2, 379-390.	28.6	96
48	Mucosal immunisation of murine neonates using whole cell and acellular Pertussis vaccines. Vaccine, 2004, 22, 3595-3602.	3.8	19
49	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
50	Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica. Nature Genetics, 2003, 35, 32-40.	21.4	898
51	Choosing a Cloning Vector. , 2003, 235, 19-26.		24
52	Proteus mirabilis fimbriae (PMF) are important for both bladder and kidney colonization in mice. Microbiology (United Kingdom), 2003, 149, 3231-3237.	1.8	53
53	Role of Bordetella O Antigen in Respiratory Tract Infection. Infection and Immunity, 2003, 71, 86-94.	2.2	60
54	Relaxed Acyl Chain Specificity of Bordetella UDP-N-acetylglucosamine Acyltransferases. Journal of Biological Chemistry, 2002, 277, 18281-18290.	3.4	33

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55	Mutational analysis of the Bordetella pertussis wlb LPS biosynthesis locus. Microbial Pathogenesis, 2002, 33, 91-95.	2.9	15
56	Molecular genetics and role in infection of environmentally regulated lipopolysaccharide expression. International Journal of Medical Microbiology, 2002, 292, 7-15.	3.6	8
57	Reverse Transcriptase-Mediated Tropism Switching in Bordetella Bacteriophage. Science, 2002, 295, 2091-2094.	12.6	247
58	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
59	A New Era of Research into Bordetella pertussis Pathogenesis. Journal of Infection, 2002, 44, 13-16.	3.3	5
60	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
61	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
62	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
63	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
64	Multiple Roles for Bordetella Lipopolysaccharide Molecules during Respiratory Tract Infection. Infection and Immunity, 2000, 68, 6720-6728.	2.2	113
65	Genetic Basis for Lipopolysaccharide O-Antigen Biosynthesis in Bordetellae. Infection and Immunity, 1999, 67, 3763-3767.	2.2	74
66	The Lipooligosaccharides of Pathogenic Gram-Negative Bacteria. Critical Reviews in Microbiology, 1996, 22, 139-180.	6.1	274
67	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
68	Evolution ofBordetella pertussisandBordetella parapertussisas Deduced from Comparative Genome Analyses. , 0, , 397-405.		0