

Andrew Preston

List of Publications by Year in descending order

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68
papers

3,844
citations

212478

28
h-index

145109

60
g-index

72
all docs

72
docs citations

72
times ranked

4012
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative analysis of the genome sequences of <i>Bordetella pertussis</i> , <i>Bordetella parapertussis</i> and <i>Bordetella bronchiseptica</i> . <i>Nature Genetics</i> , 2003, 35, 32-40.	9.4	898
2	Non-typeable <i>Haemophilus influenzae</i> adhere to and invade human bronchial epithelial cells via an interaction of lipooligosaccharide with the PAF receptor. <i>Molecular Microbiology</i> , 2000, 37, 13-27.	1.2	292
3	The Lipooligosaccharides of Pathogenic Gram-Negative Bacteria. <i>Critical Reviews in Microbiology</i> , 1996, 22, 139-180.	2.7	274
4	Global Population Structure and Evolution of <i>Bordetella pertussis</i> and Their Relationship with Vaccination. <i>MBio</i> , 2014, 5, e01074.	1.8	257
5	Reverse Transcriptase-Mediated Tropism Switching in <i>Bordetella</i> Bacteriophage. <i>Science</i> , 2002, 295, 2091-2094.	6.0	247
6	Multiple Roles for <i>Bordetella</i> Lipopolysaccharide Molecules during Respiratory Tract Infection. <i>Infection and Immunity</i> , 2000, 68, 6720-6728.	1.0	113
7	The <i>Bordetellae</i> : lessons from genomics. <i>Nature Reviews Microbiology</i> , 2004, 2, 379-390.	13.6	96
8	<i>Bordetella bronchiseptica</i> PagP is a Bvg-regulated lipid A palmitoyl transferase that is required for persistent colonization of the mouse respiratory tract. <i>Molecular Microbiology</i> , 2003, 48, 725-736.	1.2	95
9	Genomic and Genetic Analysis of <i>Bordetella</i> Bacteriophages Encoding Reverse Transcriptase-Mediated Tropism-Switching Cassettes. <i>Journal of Bacteriology</i> , 2004, 186, 1503-1517.	1.0	81
10	Genomic Analysis of Isolates From the United Kingdom 2012 Pertussis Outbreak Reveals That Vaccine Antigen Genes Are Unusually Fast Evolving. <i>Journal of Infectious Diseases</i> , 2015, 212, 294-301.	1.9	79
11	Comparison of the Genome Sequence of the Poultry Pathogen <i>Bordetella avium</i> with Those of <i>B. bronchiseptica</i> , <i>B. pertussis</i> , and <i>B. parapertussis</i> Reveals Extensive Diversity in Surface Structures Associated with Host Interaction. <i>Journal of Bacteriology</i> , 2006, 188, 6002-6015.	1.0	75
12	Genetic Basis for Lipopolysaccharide O-Antigen Biosynthesis in <i>Bordetellae</i> . <i>Infection and Immunity</i> , 1999, 67, 3763-3767.	1.0	74
13	Acquisition and loss of virulence-associated factors during genome evolution and speciation in three clades of <i>Bordetella</i> species. <i>BMC Genomics</i> , 2016, 17, 767.	1.2	70
14	PERISCOPE: road towards effective control of pertussis. <i>Lancet Infectious Diseases</i> , The, 2019, 19, e179-e186.	4.6	67
15	<i>Bordetella pertussis</i> epidemiology and evolution in the light of pertussis resurgence. <i>Infection, Genetics and Evolution</i> , 2016, 40, 136-143.	1.0	64
16	Comparative Toll-Like Receptor 4-Mediated Innate Host Defense to <i>Bordetella</i> Infection. <i>Infection and Immunity</i> , 2005, 73, 8144-8152.	1.0	63
17	Role of <i>Bordetella</i> O Antigen in Respiratory Tract Infection. <i>Infection and Immunity</i> , 2003, 71, 86-94.	1.0	60
18	Complete Structures of <i>Bordetella bronchiseptica</i> and <i>Bordetella parapertussis</i> Lipopolysaccharides. <i>Journal of Biological Chemistry</i> , 2006, 281, 18135-18144.	1.6	55

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19	pagP Is Required for Resistance to Antibody-Mediated Complement Lysis during <i>Bordetella bronchiseptica</i> Respiratory Infection. <i>Infection and Immunity</i> , 2004, 72, 2837-2842.	1.0	54
20	<i>Proteus mirabilis</i> fimbriae (PMF) are important for both bladder and kidney colonization in mice. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3231-3237.	0.7	53
21	Bacterial toxins: Offensive, defensive, or something else altogether?. <i>PLoS Pathogens</i> , 2017, 13, e1006452.	2.1	53
22	Ciliostasis is a key early event during colonization of canine tracheal tissue by <i>Bordetella bronchiseptica</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 2843-2855.	0.7	47
23	Controlled Human Infection With <i>Bordetella pertussis</i> Induces Asymptomatic, Immunizing Colonization. <i>Clinical Infectious Diseases</i> , 2020, 71, 403-411.	2.9	40
24	Mannose-resistant <i>Proteus</i> -like and <i>P. mirabilis</i> fimbriae have specific and additive roles in <i>P. mirabilis</i> urinary tract infections. <i>FEMS Immunology and Medical Microbiology</i> , 2007, 51, 125-133.	2.7	36
25	New aspects of the role of MR/P fimbriae in <i>Proteus mirabilis</i> urinary tract infection. <i>FEMS Immunology and Medical Microbiology</i> , 2001, 31, 113-120.	2.7	34
26	Relaxed Acyl Chain Specificity of <i>Bordetella</i> UDP-N-acetylglucosamine Acyltransferases. <i>Journal of Biological Chemistry</i> , 2002, 277, 18281-18290.	1.6	33
27	Oligosaccharide conjugates of <i>Bordetella pertussis</i> and <i>bronchiseptica</i> induce bactericidal antibodies, an addition to pertussis vaccine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4087-4092.	3.3	32
28	Altered lipopolysaccharide characteristic of the I69 phenotype in <i>Haemophilus influenzae</i> results from mutations in a novel gene, <i>isn</i> . <i>Journal of Bacteriology</i> , 1996, 178, 396-402.	1.0	31
29	Biosynthesis of a Rare Di-N-Acetylated Sugar in the Lipopolysaccharides of both <i>Pseudomonas aeruginosa</i> and <i>Bordetella pertussis</i> Occurs via an Identical Scheme despite Different Gene Clusters. <i>Journal of Bacteriology</i> , 2008, 190, 6060-6069.	1.0	28
30	<i>Bordetella pertussis</i> evolution in the (functional) genomics era. <i>Pathogens and Disease</i> , 2015, 73, ftv064.	0.8	25
31	Choosing a Cloning Vector. , 2003, 235, 19-26.		24
32	Expression of the Primary Carbohydrate Component of the <i>Bordetella bronchiseptica</i> Biofilm Matrix Is Dependent on Growth Phase but Independent of Bvg Regulation. <i>Journal of Bacteriology</i> , 2006, 188, 6680-6687.	1.0	23
33	Resolving the complex <i>Bordetella pertussis</i> genome using barcoded nanopore sequencing. <i>Microbial Genomics</i> , 2018, 4, .	1.0	22
34	Identification and biochemical characterization of two novel UDP-2,3-diacetamido-2,3-dideoxy- β -D-glucuronic acid 2-epimerases from respiratory pathogens. <i>Biochemical Journal</i> , 2007, 405, 123-130.	1.7	21
35	Predicting Protein Function from Structure—The Roles of Short-chain Dehydrogenase/Reductase Enzymes in <i>Bordetella</i> O-antigen Biosynthesis. <i>Journal of Molecular Biology</i> , 2007, 374, 749-763.	2.0	21
36	Enzymatic Modification of Lipid A by ArnT Protects <i>Bordetella bronchiseptica</i> against Cationic Peptides and Is Required for Transmission. <i>Infection and Immunity</i> , 2014, 82, 491-499.	1.0	21

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37	Evidence for Horizontal Gene Transfer of Two Antigenically Distinct O Antigens in <i>Bordetella bronchiseptica</i> . <i>Infection and Immunity</i> , 2009, 77, 3249-3257.	1.0	20
38	<i>Bordetella pertussis</i> isolates vary in their interactions with human complement components. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-11.	3.0	20
39	Mucosal immunisation of murine neonates using whole cell and acellular Pertussis vaccines. <i>Vaccine</i> , 2004, 22, 3595-3602.	1.7	19
40	<i>Bordetella pertussis</i> : the intersection of genomics and pathobiology. <i>Cmaj</i> , 2005, 173, 55-62.	0.9	18
41	The O Antigen Is a Critical Antigen for the Development of a Protective Immune Response to <i>Bordetella parapertussis</i> . <i>Infection and Immunity</i> , 2009, 77, 5050-5058.	1.0	16
42	Mutational analysis of the <i>Bordetella pertussis</i> wlb LPS biosynthesis locus. <i>Microbial Pathogenesis</i> , 2002, 33, 91-95.	1.3	15
43	Chemical synthesis of UDP-Glc-2,3-diNAC, a key intermediate in cell surface polysaccharide biosynthesis in the human respiratory pathogens <i>B. pertussis</i> and <i>P. aeruginosa</i> . <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1203.	1.5	14
44	Horizontally acquired divergent O-antigen contributes to escape from cross-immunity in the classical <i>bordetellae</i> . <i>BMC Evolutionary Biology</i> , 2013, 13, 209.	3.2	13
45	The role of <i>B. pertussis</i> vaccine antigen gene variants in pertussis resurgence and possible consequences for vaccine development. <i>Human Vaccines and Immunotherapeutics</i> , 2016, 12, 1274-1276.	1.4	11
46	How Genomics Is Changing What We Know About the Evolution and Genome of <i>Bordetella pertussis</i> . <i>Advances in Experimental Medicine and Biology</i> , 2019, 1183, 1-17.	0.8	11
47	IEIS Meeting minireview: <i>Bordetella</i> evolution: lipid A and Toll-like receptor 4. <i>Journal of Endotoxin Research</i> , 2007, 13, 243-247.	2.5	10
48	Antigenic Variation among <i>Bordetella</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 26869-26877.	1.6	10
49	Comparative genomic analyses of the <i>Taylorella</i> . <i>Veterinary Microbiology</i> , 2012, 159, 195-203.	0.8	9
50	The evolution of <i>Bordetella pertussis</i> has selected for mutations of <i>acr</i> that lead to sensitivity to hydrophobic molecules and fatty acids. <i>Emerging Microbes and Infections</i> , 2019, 8, 603-612.	3.0	9
51	Molecular genetics and role in infection of environmentally regulated lipopolysaccharide expression. <i>International Journal of Medical Microbiology</i> , 2002, 292, 7-15.	1.5	8
52	Post-assembly Modification of <i>Bordetella bronchiseptica</i> O Polysaccharide by a Novel Periplasmic Enzyme Encoded by <i>wbmE</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 1474-1483.	1.6	8
53	The <i>Bordetella avium</i> BAV1965 - 1962 Fimbrial Locus Is Regulated by Temperature and Produces Fimbriae Involved in Adherence to Turkey Tracheal Tissue. <i>Infection and Immunity</i> , 2011, 79, 2423-2429.	1.0	8
54	<i>Bordetella parapertussis</i> PagP Mediates the Addition of Two Palmitates to the Lipopolysaccharide Lipid A. <i>Journal of Bacteriology</i> , 2015, 197, 572-580.	1.0	8

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55	An Extracellular Polysaccharide Locus Required for Transmission of <i>Bordetella bronchiseptica</i> . <i>Journal of Infectious Diseases</i> , 2017, 216, 899-906.	1.9	8
56	A curated genome-scale metabolic model of <i>Bordetella pertussis</i> metabolism. <i>PLoS Computational Biology</i> , 2017, 13, e1005639.	1.5	8
57	Fundamental differences in physiology of <i>Bordetella pertussis</i> dependent on the two-component system Bvg revealed by gene essentiality studies. <i>Microbial Genomics</i> , 2020, 6, .	1.0	8
58	Plasticity of fimbrial genotype and serotype within populations of <i>Bordetella pertussis</i> : analysis by paired flow cytometry and genome sequencing. <i>Microbiology (United Kingdom)</i> , 2014, 160, 2030-2044.	0.7	7
59	Invited review: The molecular genetics and role in infection of lipopolysaccharide biosynthesis in the <i>Bordetellae</i> . <i>Journal of Endotoxin Research</i> , 2001, 7, 251-261.	2.5	6
60	A New Era of Research into <i>Bordetella pertussis</i> Pathogenesis. <i>Journal of Infection</i> , 2002, 44, 13-16.	1.7	5
61	Investigation of core machinery for biosynthesis of Vi antigen capsular polysaccharides in Gram-negative bacteria. <i>Journal of Biological Chemistry</i> , 2022, 298, 101486.	1.6	4
62	Overexpression, purification, crystallization and data collection on the <i>Bordetella pertussis</i> wlbD gene product, a putative UDP-GlcNAc 2-epimerase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1310-1312.	2.5	3
63	A qPCR assay for <i>Bordetella pertussis</i> cells that enumerates both live and dead bacteria. <i>PLoS ONE</i> , 2020, 15, e0232334.	1.1	3
64	Cloning, expression, purification and preliminary crystallographic analysis of the short-chain dehydrogenase enzymes WbmF, WbmG and WbmH from <i>Bordetella bronchiseptica</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 711-715.	0.7	2
65	Comparative genomics of <i>Bordetella pertussis</i> isolates from New Zealand, a country with an uncommonly high incidence of whooping cough. <i>Microbial Genomics</i> , 2022, 8, .	1.0	2
66	Biochemical and Structural Analysis of the Role of the Wlb Gene Locus in <i>Bordetella Pertussis</i> Lipopolysaccharide Biosynthesis. <i>Scientific World Journal, The</i> , 2002, 2, 55-56.	0.8	1
67	Evolution of <i>Bordetella pertussis</i> and <i>Bordetella parapertussis</i> as Deduced from Comparative Genome Analyses. , 0, , 397-405.		0
68	Towards comprehensive understanding of bacterial genetic diversity: large-scale amplifications in <i>Bordetella pertussis</i> and <i>Mycobacterium tuberculosis</i> . <i>Microbial Genomics</i> , 2022, 8, .	1.0	0