

Kate L Seib

List of Publications by Year in descending order

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93
papers

3,873
citations

109321

35
h-index

133252

59
g-index

95
all docs

95
docs citations

95
times ranked

3548
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Neisseria meningitidis</i> is structured in clades associated with restriction modification systems that modulate homologous recombination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4494-4499.	7.1	198
2	The Key Role of Genomics in Modern Vaccine and Drug Design for Emerging Infectious Diseases. PLoS Genetics, 2009, 5, e1000612.	3.5	184
3	<i>Neisseria meningitidis</i> GNA2132, a heparin-binding protein that induces protective immunity in humans. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3770-3775.	7.1	184
4	Phasevarions Mediate Random Switching of Gene Expression in Pathogenic <i>Neisseria</i> . PLoS Pathogens, 2009, 5, e1000400.	4.7	170
5	Developing vaccines in the era of genomics: a decade of reverse vaccinology. Clinical Microbiology and Infection, 2012, 18, 109-116.	6.0	161
6	Vaccinology in the genome era. Journal of Clinical Investigation, 2009, 119, 2515-2525.	8.2	132
7	Transcriptome Analysis of <i>Neisseria meningitidis</i> in Human Whole Blood and Mutagenesis Studies Identify Virulence Factors Involved in Blood Survival. PLoS Pathogens, 2011, 7, e1002027.	4.7	129
8	Defenses against Oxidative Stress in <i>Neisseria gonorrhoeae</i> : a System Tailored for a Challenging Environment. Microbiology and Molecular Biology Reviews, 2006, 70, 344-361.	6.6	128
9	Vaccines, Reverse Vaccinology, and Bacterial Pathogenesis. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a012476-a012476.	6.2	119
10	Defenses against Oxidative Stress in <i>Neisseria gonorrhoeae</i> and <i>Neisseria meningitidis</i> : Distinctive Systems for Different Lifestyles. Journal of Infectious Diseases, 2004, 190, 136-147.	4.0	113
11	The Serogroup B Meningococcal Vaccine Bexsero Elicits Antibodies to <i>Neisseria gonorrhoeae</i> . Clinical Infectious Diseases, 2019, 69, 1101-1111.	5.8	101
12	Factor H-Binding Protein Is Important for Meningococcal Survival in Human Whole Blood and Serum and in the Presence of the Antimicrobial Peptide LL-37. Infection and Immunity, 2009, 77, 292-299.	2.2	99
13	Is gonococcal disease preventable? The importance of understanding immunity and pathogenesis in vaccine development. Critical Reviews in Microbiology, 2016, 42, 928-941.	6.1	94
14	The RNA Chaperone Hfq Is Involved in Stress Response and Virulence in <i>Neisseria meningitidis</i> and Is a Pleiotropic Regulator of Protein Expression. Infection and Immunity, 2009, 77, 1842-1853.	2.2	84
15	Characterization of the OxyR regulon of <i>Neisseria gonorrhoeae</i> . Molecular Microbiology, 2007, 63, 54-68.	2.5	81
16	Pilin glycosylation in <i>Neisseria meningitidis</i> occurs by a similar pathway to wzy-dependent O-antigen biosynthesis in <i>Escherichia coli</i> . Biochemical and Biophysical Research Communications, 2006, 347, 904-908.	2.1	80
17	ModM DNA methyltransferase methylome analysis reveals a potential role for <i>Moraxella catarrhalis</i> phasevarions in otitis media. FASEB Journal, 2014, 28, 5197-5207.	0.5	73
18	The potential impact of vaccination on the prevalence of gonorrhoea. Vaccine, 2015, 33, 4520-4525.	3.8	72

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19	PerR controls Mn-dependent resistance to oxidative stress in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2006, 60, 401-416.	2.5	69
20	Characterization of Diverse Subvariants of the Meningococcal Factor H (fH) Binding Protein for Their Ability To Bind fH, To Mediate Serum Resistance, and To Induce Bactericidal Antibodies. <i>Infection and Immunity</i> , 2011, 79, 970-981.	2.2	64
21	Phasevarions of Bacterial Pathogens: Methylomics Sheds New Light on Old Enemies. <i>Trends in Microbiology</i> , 2018, 26, 715-726.	7.7	62
22	<i>Neisseria meningitidis</i> factor H-binding protein fHbp: a key virulence factor and vaccine antigen. <i>Expert Review of Vaccines</i> , 2015, 14, 841-859.	4.4	59
23	Specificity of the ModA11, ModA12 and ModD1 epigenetic regulator N6-adenine DNA methyltransferases of <i>Neisseria meningitidis</i> . <i>Nucleic Acids Research</i> , 2015, 43, 4150-4162.	14.5	58
24	Phase-variable bacterial loci: how bacteria gamble to maximise fitness in changing environments. <i>Biochemical Society Transactions</i> , 2019, 47, 1131-1141.	3.4	57
25	SslE Elicits Functional Antibodies That Impair In Vitro Mucinase Activity and In Vivo Colonization by Both Intestinal and Extraintestinal <i>Escherichia coli</i> Strains. <i>PLoS Pathogens</i> , 2014, 10, e1004124.	4.7	54
26	OxyR tightly regulates catalase expression in <i>Neisseria meningitidis</i> through both repression and activation mechanisms. <i>Molecular Microbiology</i> , 2008, 70, 1152-1165.	2.5	51
27	Epigenetic Regulation of Virulence and Immunoavoidance by Phase-Variable Restriction-Modification Systems in Bacterial Pathogens. <i>Annual Review of Microbiology</i> , 2020, 74, 655-671.	7.3	50
28	MetQ of <i>Neisseria gonorrhoeae</i> Is a Surface-Expressed Antigen That Elicits Bactericidal and Functional Blocking Antibodies. <i>Infection and Immunity</i> , 2017, 85, .	2.2	47
29	Gonococcal vaccines: Public health value and preferred product characteristics; report of a WHO global stakeholder consultation, January 2019. <i>Vaccine</i> , 2020, 38, 4362-4373.	3.8	46
30	Phase variable restriction modification systems in <i>Moraxella catarrhalis</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2002, 32, 159-165.	2.7	44
31	A Sco homologue plays a role in defence against oxidative stress in pathogenic <i>Neisseria</i> . <i>FEBS Letters</i> , 2003, 546, 411-415.	2.8	44
32	A survey of Type III restriction-modification systems reveals numerous, novel epigenetic regulators controlling phase-variable regulons; phasevarions. <i>Nucleic Acids Research</i> , 2018, 46, 3532-3542.	14.5	43
33	Phasevarions of bacterial pathogens – phase-variable epigenetic regulators evolving from restriction modification systems. <i>Microbiology (United Kingdom)</i> , 2019, 165, 917-928.	1.8	42
34	Azurin of Pathogenic <i>Neisseria</i> spp. Is Involved in Defense against Hydrogen Peroxide and Survival within Cervical Epithelial Cells. <i>Infection and Immunity</i> , 2005, 73, 8444-8448.	2.2	41
35	Phasevarions Mediate Epigenetic Regulation of Antimicrobial Susceptibility in <i>Neisseria meningitidis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4219-4221.	3.2	40
36	A novel epigenetic regulator associated with the hypervirulent <i>Neisseria meningitidis</i> clonal complex 41/44. <i>FASEB Journal</i> , 2011, 25, 3622-3633.	0.5	39

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37	Manganese regulation of virulence factors and oxidative stress resistance in <i>Neisseria gonorrhoeae</i> . <i>Journal of Proteomics</i> , 2010, 73, 899-916.	2.4	38
38	The Capricious Nature of Bacterial Pathogens: Phasevarions and Vaccine Development. <i>Frontiers in Immunology</i> , 2016, 7, 586.	4.8	37
39	Investigation of Oxidative Stress Defenses of <i>Neisseria gonorrhoeae</i> by Using a Human Polymorphonuclear Leukocyte Survival Assay. <i>Infection and Immunity</i> , 2005, 73, 5269-5272.	2.2	33
40	Influence of serogroup B meningococcal vaccine antigens on growth and survival of the meningococcus in vitro and in ex vivo and in vivo models of infection. <i>Vaccine</i> , 2010, 28, 2416-2427.	3.8	33
41	Neisserial Heparin Binding Antigen (NHBA) Contributes to the Adhesion of <i>Neisseria meningitidis</i> to Human Epithelial Cells. <i>PLoS ONE</i> , 2016, 11, e0162878.	2.5	33
42	Virulence determinants of <i>Moraxella catarrhalis</i> : distribution and considerations for vaccine development. <i>Microbiology (United Kingdom)</i> , 2017, 163, 1371-1384.	1.8	33
43	Distribution of the type III DNA methyltransferases modA, modB and modD among <i>Neisseria meningitidis</i> genotypes: implications for gene regulation and virulence. <i>Scientific Reports</i> , 2016, 6, 21015.	3.3	32
44	<i>Escherichia coli</i> : Great Diversity around a Common Core. <i>MBio</i> , 2012, 3, .	4.1	31
45	The glycointeractome of serogroup B <i>Neisseria meningitidis</i> strain MC58. <i>Scientific Reports</i> , 2017, 7, 5693.	3.3	30
46	The sweet side of the pathogenic <i>Neisseria</i> : the role of glycan interactions in colonisation and disease. <i>Pathogens and Disease</i> , 2017, 75, .	2.0	30
47	Phase variation of DNA methyltransferases and the regulation of virulence and immune evasion in the pathogenic <i>Neisseria</i> . <i>Pathogens and Disease</i> , 2017, 75, .	2.0	27
48	Looking beyond meningococcal B with the 4CMenB vaccine: the <i>Neisseria</i> effect. <i>Npj Vaccines</i> , 2021, 6, 130.	6.0	24
49	<i>Neisseria gonorrhoeae</i> vaccine development: hope on the horizon?. <i>Current Opinion in Infectious Diseases</i> , 2018, 31, 246-250.	3.1	23
50	Lectin Activity of the TcdA and TcdB Toxins of <i>Clostridium difficile</i> . <i>Infection and Immunity</i> , 2019, 87, .	2.2	20
51	Analysis of Invasive Nontypeable <i>Haemophilus influenzae</i> Isolates Reveals Selection for the Expression State of Particular Phase-Variable Lipooligosaccharide Biosynthetic Genes. <i>Infection and Immunity</i> , 2019, 87, .	2.2	20
52	A Gonococcal Vaccine Has the Potential to Rapidly Reduce the Incidence of <i>Neisseria gonorrhoeae</i> Infection Among Urban Men Who Have Sex With Men. <i>Journal of Infectious Diseases</i> , 2022, 225, 983-993.	4.0	20
53	The <i>Neisseria gonorrhoeae</i> Methionine Sulfoxide Reductase (MsrA/B) Is a Surface Exposed, Immunogenic, Vaccine Candidate. <i>Frontiers in Immunology</i> , 2019, 10, 137.	4.8	19
54	The <i>Moraxella catarrhalis</i> phase-variable DNA methyltransferase ModM3 is an epigenetic regulator that affects bacterial survival in an in vivo model of otitis media. <i>BMC Microbiology</i> , 2019, 19, 276.	3.3	19

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55	The Factor H Binding Protein of <i>Neisseria meningitidis</i> Interacts with Xenosiderophores in Vitro. <i>Biochemistry</i> , 2012, 51, 9384-9393.	2.5	17
56	Glycointeractome of <i>Neisseria gonorrhoeae</i> : Identification of Host Glycans Targeted by the <i>Gonococcus</i> To Facilitate Adherence to Cervical and Urethral Epithelial Cells. <i>MBio</i> , 2019, 10, .	4.1	17
57	Nasal swab bacteriology by PCR during the first 24 months of life: A prospective birth cohort study. <i>Pediatric Pulmonology</i> , 2019, 54, 289-296.	2.0	17
58	<i>Moraxella catarrhalis</i> Restriction-Modification Systems are Associated with Phylogenetic Lineage and Disease. <i>Genome Biology and Evolution</i> , 2018, 10, 2932-2946.	2.5	15
59	<i>Moraxella catarrhalis</i> NucM is an entry nuclease involved in extracellular DNA and RNA degradation, cell competence and biofilm scaffolding. <i>Scientific Reports</i> , 2019, 9, 2579.	3.3	15
60	The <i>Neisseria gonorrhoeae</i> Vaccine Candidate NHBA Elicits Antibodies That Are Bactericidal, Opsonophagocytic and That Reduce Gonococcal Adherence to Epithelial Cells. <i>Vaccines</i> , 2020, 8, 219.	4.4	14
61	Gonorrhoea vaccines: a step in the right direction. <i>Lancet, The</i> , 2017, 390, 1567-1569.	13.7	13
62	The Bexsero <i>Neisseria meningitidis</i> serogroup B vaccine antigen NHBA is a high-affinity chondroitin sulfate binding protein. <i>Scientific Reports</i> , 2018, 8, 6512.	3.3	12
63	Lectin activity of the pneumococcal pilin proteins. <i>Scientific Reports</i> , 2017, 7, 17784.	3.3	11
64	Role of the Gonococcal <i>Neisserial</i> Heparin Binding Antigen in Microcolony Formation, and Serum Resistance and Adherence to Epithelial Cells. <i>Journal of Infectious Diseases</i> , 2020, 221, 1612-1622.	4.0	11
65	Non-typeable <i>Haemophilus influenzae</i> isolates from patients with chronic obstructive pulmonary disease contain new phase-variable <i>modA</i> methyltransferase alleles controlling phasevarions. <i>Scientific Reports</i> , 2019, 9, 15963.	3.3	10
66	Intractable problems require novel solutions: it's time to get serious about developing a gonorrhoea vaccine. <i>Sexually Transmitted Infections</i> , 2016, 92, 561-562.	1.9	9
67	Lectin activity of <i>Pseudomonas aeruginosa</i> vaccine candidates PSE17-1, PSE41-5 and PSE54. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 287-290.	2.1	9
68	Acclimation to Nutritional Immunity and Metal Intoxication Requires Zinc, Manganese, and Copper Homeostasis in the Pathogenic <i>Neisseriae</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	3.9	9
69	Complete Genome Sequence of <i>Moraxella catarrhalis</i> Strain CCRI-195ME, Isolated from the Middle Ear. <i>Genome Announcements</i> , 2017, 5, .	0.8	8
70	Closed Complete Genome Sequences of Two Nontypeable <i>Haemophilus influenzae</i> Strains Containing Novel <i>modA</i> Alleles from the Sputum of Patients with Chronic Obstructive Pulmonary Disease. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	7
71	Self-derived structure-disrupting peptides targeting methionine aminopeptidase in pathogenic bacteria: a new strategy to generate antimicrobial peptides. <i>FASEB Journal</i> , 2019, 33, 2095-2104.	0.5	7
72	Random Switching of the <i>ModA11</i> Type III DNA Methyltransferase of <i>Neisseria meningitidis</i> Regulates Entner-Doudoroff Aldolase Expression by a Methylation Change in the <i>eda</i> Promoter Region. <i>Journal of Molecular Biology</i> , 2020, 432, 5835-5842.	4.2	7

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73	The meningococcal vaccine antigen GNA2091 is an analogue of YraP and plays key roles in outer membrane stability and virulence. <i>FASEB Journal</i> , 2019, 33, 12324-12335.	0.5	6
74	Outer membrane vesicle vaccines for <i>Neisseria gonorrhoeae</i> . <i>Nature Reviews Urology</i> , 2021, , .	3.8	6
75	Assessment of Serum Bactericidal and Opsonophagocytic Activity of Antibodies to Gonococcal Vaccine Targets. <i>Methods in Molecular Biology</i> , 2022, 2414, 363-372.	0.9	6
76	<i>Moraxella catarrhalis</i> phase-variable loci show differences in expression during conditions relevant to disease. <i>PLoS ONE</i> , 2020, 15, e0234306.	2.5	5
77	Modelling the in-host dynamics of <i>Neisseria gonorrhoeae</i> infection. <i>Pathogens and Disease</i> , 2019, 77, .	2.0	4
78	The Lst Sialyltransferase of <i>Neisseria gonorrhoeae</i> Can Transfer Keto-Deoxyoctanoate as the Terminal Sugar of Lipooligosaccharide: a Glyco-Achilles Heel That Provides a New Strategy for Vaccines to Prevent Gonorrhea. <i>MBio</i> , 2021, 12, .	4.1	4
79	Antimicrobial susceptibility and impact of macrolide antibiotics on <i>Moraxella catarrhalis</i> in the upper and lower airways of children with chronic endobronchial suppuration. <i>Journal of Medical Microbiology</i> , 2019, 68, 1140-1147.	1.8	4
80	Epigenetics of Infectious Diseases. , 2016, , 443-458.		3
81	Proteome of a <i>Moraxella catarrhalis</i> Strain under Iron-Restricted Conditions. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	3
82	Characterizing the meningococcal glycointeractome: what is new?. <i>Future Microbiology</i> , 2018, 13, 279-282.	2.0	2
83	Gonorrhoea: past, present and future. <i>Microbiology Australia</i> , 2020, 41, 205.	0.4	2
84	Self-Inhibitory Peptides Targeting the <i>Neisseria gonorrhoeae</i> MtrCDE Efflux Pump Increase Antibiotic Susceptibility. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0154221.	3.2	2
85	Transcriptome Sequencing Data Sets for Determining Gene Expression Changes Mediated by Phase-Variable DNA Methyltransferases in Nontypeable <i>Haemophilus influenzae</i> Strains Isolated from Patients with Chronic Obstructive Pulmonary Disease. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	1
86	Investigation of Whole Cell Meningococcal Glycan Interactions Using High Throughput Glycobiology Techniques: Glycan Array and Surface Plasmon Resonance. <i>Methods in Molecular Biology</i> , 2019, 1969, 113-121.	0.9	1
87	Screening DNA Repeat Tracts of Phase Variable Genes by Fragment Analysis. <i>Methods in Molecular Biology</i> , 2019, 1969, 93-104.	0.9	1
88	Design of New Vaccines in the Genomic and Post-genomic Era. , 2012, , 3-15.		1
89	P09.10â€¦The potential impact of vaccination on the prevalence of gonorrhoea. <i>Sexually Transmitted Infections</i> , 2015, 91, A151.1-A151.	1.9	0
90	O13.3â€¦Vaccine development to combat antimicrobial resistant gonorrhoea. , 2017, , .		0

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91	S12.1â€¦Progress towards a Gonorrhoea vaccine. , 2019, , .		0
92	Transcriptome RNA Sequencing Data Set of Gene Expression in Moraxella catarrhalis On- and Off-Phase Variants of the Type III DNA Methyltransferase ModM3. Microbiology Resource Announcements, 2020, 9, .	0.6	0
93	Science meets Parliament 2015. Microbiology Australia, 2015, 36, 141.	0.4	0