

# H Steven Seifert

## List of Publications by Year in descending order

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103  
papers

5,885  
citations

66234

42  
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82410

72  
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105  
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105  
docs citations

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times ranked

4346  
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Neisseria gonorrhoeae</i> type IV pilus promotes resistance to hydrogen peroxide- and LL-37-mediated killing by modulating the availability of intracellular, labile iron. <i>PLoS Pathogens</i> , 2022, 18, e1010561.	2.1	4
2	Challenges and Controversies Concerning <i>Neisseria gonorrhoeae</i> -Neutrophil Interactions in Pathogenesis. <i>MBio</i> , 2021, 12, e0072121.	1.8	4
3	Altering the <i>Neisseria gonorrhoeae</i> pilE Guanine Quadruplex Loop Bases Affects Pilin Antigenic Variation. <i>Biochemistry</i> , 2020, 59, 1104-1112.	1.2	9
4	Discovery of a New <i>Neisseria gonorrhoeae</i> Type IV Pilus Assembly Factor, TfpC. <i>MBio</i> , 2020, 11, .	1.8	5
5	Transcriptional initiation of a small RNA, not R-loop stability, dictates the frequency of pilin antigenic variation in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2019, 112, 1219-1234.	1.2	14
6	Anti-psychotic drugs block meningococcal virulence. <i>Nature Microbiology</i> , 2019, 4, 906-907.	5.9	0
7	Location, Location, Location—Commensalism, Damage and Evolution of the Pathogenic <i>Neisseria</i> . <i>Journal of Molecular Biology</i> , 2019, 431, 3010-3014.	2.0	27
8	A Double-Strand Break Does Not Promote <i>Neisseria gonorrhoeae</i> Pilin Antigenic Variation. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	8
9	PacBio Amplicon Sequencing Method To Measure Pilin Antigenic Variation Frequencies of <i>Neisseria gonorrhoeae</i> . <i>MSphere</i> , 2019, 4, .	1.3	5
10	Gonorrhoea. <i>Nature Reviews Disease Primers</i> , 2019, 5, 79.	18.1	284
11	The low-molecular-mass, penicillin-binding proteins DacB and DacC combine to modify peptidoglycan cross-linking and allow stable Type IV pilus expression in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2018, 109, 135-149.	1.2	11
12	<i>Neisseria gonorrhoeae</i> host adaptation and pathogenesis. <i>Nature Reviews Microbiology</i> , 2018, 16, 226-240.	13.6	220
13	<i>Neisseria gonorrhoeae</i> Exposed to Sublethal Levels of Hydrogen Peroxide Mounts a Complex Transcriptional Response. <i>MSystems</i> , 2018, 3, .	1.7	13
14	R-loops modulate Trypanosome antigenic variation. <i>PLoS Genetics</i> , 2018, 14, e1007809.	1.5	1
15	A Case for the Evolution from Commensalism to Pathogenicity and Possibly Back Again: Lessons Learned from the Human-Adapted <i>Neisseria</i> Species. <i>Grand Challenges in Biology and Biotechnology</i> , 2018, , 327-370.	2.4	2
16	Analysis of Pilin Antigenic Variation in <i>Neisseria meningitidis</i> by Next-Generation Sequencing. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	9
17	Above and Beyond Watson and Crick: Guanine Quadruplex Structures and Microbes. <i>Annual Review of Microbiology</i> , 2018, 72, 49-69.	2.9	28
18	<i>Haemophilus</i> spills its guts to make a biofilm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8444-8446.	3.3	2

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19	<i>Neisseria gonorrhoeae</i> survives within and modulates apoptosis and inflammatory cytokine production of human macrophages. <i>Cellular Microbiology</i> , 2016, 18, 546-560.	1.1	51
20	Analyzing <i>Neisseria gonorrhoeae</i> Pilin Antigenic Variation Using 454 Sequencing Technology. <i>Journal of Bacteriology</i> , 2016, 198, 2470-2482.	1.0	13
21	Antigenic Variation in Bacterial Pathogens. <i>Microbiology Spectrum</i> , 2016, 4, .	1.2	47
22	Amidase Activity of AmiC Controls Cell Separation and Stem Peptide Release and Is Enhanced by NlpD in <i>Neisseria gonorrhoeae</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 10916-10933.	1.6	26
23	<i>Neisseria meningitidis</i> Lacking the Major Porins PorA and PorB Is Viable and Modulates Apoptosis and the Oxidative Burst of Neutrophils. <i>Journal of Proteome Research</i> , 2016, 15, 2356-2365.	1.8	24
24	Seminal Plasma Promotes <i>Neisseria gonorrhoeae</i> Aggregation and Biofilm Formation. <i>Journal of Bacteriology</i> , 2016, 198, 2228-2235.	1.0	17
25	The Gonococcal NlpD Protein Facilitates Cell Separation by Activating Peptidoglycan Cleavage by AmiC. <i>Journal of Bacteriology</i> , 2016, 198, 615-622.	1.0	25
26	The Pilin N-terminal Domain Maintains <i>Neisseria gonorrhoeae</i> Transformation Competence during Pilus Phase Variation. <i>PLoS Genetics</i> , 2016, 12, e1006069.	1.5	26
27	Mobile DNA in the Pathogenic <i>Neisseria</i> . <i>Microbiology Spectrum</i> , 2015, 3, .	1.2	40
28	Mobile DNA in the Pathogenic <i>Neisseria</i> . , 2015, , 451-469.		3
29	<i>Neisseria gonorrhoeae</i> MutS Affects Pilin Antigenic Variation through Mismatch Correction and Not by <i>pilE</i> Guanine Quartet Binding. <i>Journal of Bacteriology</i> , 2015, 197, 1828-1838.	1.0	23
30	<i>Neisseria gonorrhoeae</i> Elicits Extracellular Traps in Primary Neutrophil Culture While Suppressing the Oxidative Burst. <i>MBio</i> , 2015, 6, .	1.8	29
31	DNase H Activity of <i>Neisseria meningitidis</i> Cas9. <i>Molecular Cell</i> , 2015, 60, 242-255.	4.5	54
32	<i>Neisseria meningitidis</i> Type IV Pili Composed of Sequence Invariable Pilins Are Masked by Multisite Glycosylation. <i>PLoS Pathogens</i> , 2015, 11, e1005162.	2.1	55
33	The Long and Winding Road (Apologies to the Beatles). <i>PLoS Pathogens</i> , 2015, 11, e1005094.	2.1	0
34	Seminal Plasma Initiates a <i>Neisseria gonorrhoeae</i> Transmission State. <i>MBio</i> , 2014, 5, e01004-13.	1.8	13
35	The Genetics of <i>Neisseria</i> Species. <i>Annual Review of Genetics</i> , 2014, 48, 405-431.	3.2	99
36	Processing-Independent CRISPR RNAs Limit Natural Transformation in <i>Neisseria meningitidis</i> . <i>Molecular Cell</i> , 2013, 50, 488-503.	4.5	256

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37	<i>Neisseria gonorrhoeae</i> Metalloprotease NGO1686 Is Required for Full Piliation, and Piliation Is Required for Resistance to H <sub>2</sub> O <sub>2</sub> - and Neutrophil-Mediated Killing. <i>MBio</i> , 2013, 4, .	1.8	42
38	Transcription of a cis-acting, Noncoding, Small RNA Is Required for Pilin Antigenic Variation in <i>Neisseria gonorrhoeae</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003074.	2.1	97
39	<i>Neisseria gonorrhoeae</i> RecQ Helicase HRDC Domains Are Essential for Efficient Binding and Unwinding of the <i>pilE</i> Guanine Quartet Structure Required for Pilin Antigenic Variation. <i>Journal of Bacteriology</i> , 2013, 195, 2255-2261.	1.0	29
40	Phase Variation Leads to the Misidentification of a <i>Neisseria Gonorrhoeae</i> Virulence Gene. <i>PLoS ONE</i> , 2013, 8, e72183.	1.1	12
41	<i>Neisseria gonorrhoeae</i> Virulence Factor NG1686 Is a Bifunctional M23B Family Metallopeptidase That Influences Resistance to Hydrogen Peroxide and Colony Morphology. <i>Journal of Biological Chemistry</i> , 2012, 287, 11222-11233.	1.6	27
42	RecA-Binding <i>pilE</i> G4 Sequence Essential for Pilin Antigenic Variation Forms Monomeric and 5â€² End-Stacked Dimeric Parallel G-Quadruplexes. <i>Structure</i> , 2012, 20, 2090-2102.	1.6	78
43	A bacterial siren song: intimate interactions between <i>Neisseria</i> and neutrophils. <i>Nature Reviews Microbiology</i> , 2012, 10, 178-190.	13.6	127
44	Microbial antigenic variation mediated by homologous DNA recombination. <i>FEMS Microbiology Reviews</i> , 2012, 36, 917-948.	3.9	93
45	Genetic transformation of <i>Neisseria gonorrhoeae</i> shows a strand preference. <i>FEMS Microbiology Letters</i> , 2012, 334, 44-48.	0.7	14
46	The <i>Neisseria gonorrhoeae</i> photolyase orthologue <i>phrB</i> is required for proper DNA supercoiling but does not function in photo-reactivation. <i>Molecular Microbiology</i> , 2011, 79, 729-742.	1.2	12
47	The DNA-binding activity of the <i>Neisseria gonorrhoeae</i> LexA orthologue NG1427 is modulated by oxidation. <i>Molecular Microbiology</i> , 2011, 79, 846-860.	1.2	23
48	Focusing homologous recombination: pilin antigenic variation in the pathogenic <i>Neisseria</i> . <i>Molecular Microbiology</i> , 2011, 81, 1136-1143.	1.2	70
49	<i>Neisseria gonorrhoeae</i> and humans perform an evolutionary LINE dance. <i>Mobile Genetic Elements</i> , 2011, 1, 85-87.	1.8	10
50	<i>Neisseria gonorrhoeae</i> -Mediated Inhibition of Apoptotic Signalling in Polymorphonuclear Leukocytes. <i>Infection and Immunity</i> , 2011, 79, 4447-4458.	1.0	42
51	Opportunity and Means: Horizontal Gene Transfer from the Human Host to a Bacterial Pathogen. <i>MBio</i> , 2011, 2, e00005-11.	1.8	68
52	Purification and Characterization of the RecA Protein from <i>Neisseria gonorrhoeae</i> . <i>PLoS ONE</i> , 2011, 6, e17101.	1.1	14
53	Less Is More: <i>Neisseria gonorrhoeae</i> RecX Protein Stimulates Recombination by Inhibiting RecA. <i>Journal of Biological Chemistry</i> , 2010, 285, 37188-37197.	1.6	33
54	Genetic Characterization of the Nucleotide Excision Repair System of <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2010, 192, 665-673.	1.0	16

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55	DNA Uptake Sequence-Mediated Enhancement of Transformation in <i>Neisseria gonorrhoeae</i> Is Strain Dependent. <i>Journal of Bacteriology</i> , 2010, 192, 4436-4444.	1.0	45
56	Genomic Content of <i>Neisseria</i> Species. <i>Journal of Bacteriology</i> , 2010, 192, 2160-2168.	1.0	35
57	Mismatch Correction Modulates Mutation Frequency and Pilus Phase and Antigenic Variation in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2010, 192, 316-325.	1.0	29
58	Frequency and Rate of Pilin Antigenic Variation of <i>Neisseria meningitidis</i> . <i>Journal of Bacteriology</i> , 2010, 192, 3822-3823.	1.0	34
59	Pilin Antigenic Variation Occurs Independently of the RecBCD Pathway in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2009, 191, 5613-5621.	1.0	27
60	Resistance of <i>Neisseria gonorrhoeae</i> to non-oxidative killing by adherent human polymorphonuclear leucocytes. <i>Cellular Microbiology</i> , 2009, 11, 1074-1087.	1.1	71
61	<i>ksgA</i> mutations confer resistance to kasugamycin in <i>Neisseria gonorrhoeae</i> . <i>International Journal of Antimicrobial Agents</i> , 2009, 33, 321-327.	1.1	19
62	An Alternative DNA Structure Is Necessary for Pilin Antigenic Variation in <i>Neisseria gonorrhoeae</i> . <i>Science</i> , 2009, 325, 764-767.	6.0	274
63	<i>Neisseria gonorrhoeae</i> suppresses the oxidative burst of human polymorphonuclear leukocytes. <i>Cellular Microbiology</i> , 2008, 10, 2257-2270.	1.1	72
64	<i>pilQ</i> Missense Mutations Have Diverse Effects on PilQ Multimer Formation, Piliation, and Pilus Function in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2007, 189, 3198-3207.	1.0	32
65	Transposon Mutagenesis Identifies Sites Upstream of the <i>Neisseria gonorrhoeae pilE</i> Gene That Modulate Pilin Antigenic Variation. <i>Journal of Bacteriology</i> , 2007, 189, 3462-3470.	1.0	18
66	The Obligate Human Pathogen, <i>Neisseria gonorrhoeae</i> , Is Polyploid. <i>PLoS Biology</i> , 2006, 4, e185.	2.6	78
67	Gonococci exit apically and basally from polarized epithelial cells and exhibit dynamic changes in type IV pilin. <i>Cellular Microbiology</i> , 2006, 8, 1430-1443.	1.1	24
68	Loss of both Holliday junction processing pathways is synthetically lethal in the presence of gonococcal pilin antigenic variation. <i>Molecular Microbiology</i> , 2006, 61, 185-193.	1.2	45
69	<i>Neisseria gonorrhoeae</i> DNA Recombination and Repair Enzymes Protect against Oxidative Damage Caused by Hydrogen Peroxide. <i>Journal of Bacteriology</i> , 2006, 188, 7645-7651.	1.0	66
70	A genetic screen identifies genes and sites involved in pilin antigenic variation in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2005, 57, 468-483.	1.2	65
71	The <i>penC</i> mutation conferring antibiotic resistance in <i>Neisseria gonorrhoeae</i> arises from a mutation in the PilQ secretin that interferes with multimer stability. <i>Molecular Microbiology</i> , 2005, 57, 1238-1251.	1.2	74
72	The frequency and rate of pilin antigenic variation in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2005, 58, 510-519.	1.2	108

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73	The transcriptome response of <i>Neisseria gonorrhoeae</i> to hydrogen peroxide reveals genes with previously uncharacterized roles in oxidative damage protection. <i>Molecular Microbiology</i> , 2005, 58, 520-532.	1.2	117
74	Analysis of the Piv Recombinase-Related Gene Family of <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2005, 187, 1276-1286.	1.0	24
75	Mutation of the <i>priA</i> Gene of <i>Neisseria gonorrhoeae</i> Affects DNA Transformation and DNA Repair. <i>Journal of Bacteriology</i> , 2005, 187, 5347-5355.	1.0	46
76	Role of the Rep Helicase Gene in Homologous Recombination in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2005, 187, 2903-2907.	1.0	38
77	A real-time semi-quantitative RT-PCR assay demonstrates that the <i>pilE</i> sequence dictates the frequency and characteristics of pilin antigenic variation in <i>Neisseria gonorrhoeae</i> . <i>Nucleic Acids Research</i> , 2005, 33, 3363-3371.	6.5	20
78	A Mutant Form of the <i>Neisseria gonorrhoeae</i> Pilus Secretin Protein PilQ Allows Increased Entry of Heme and Antimicrobial Compounds. <i>Journal of Bacteriology</i> , 2004, 186, 730-739.	1.0	49
79	Recombination, repair and replication in the pathogenic <i>Neisseriae</i> : the 3 R's of molecular genetics of two human-specific bacterial pathogens. <i>Molecular Microbiology</i> , 2003, 50, 3-13.	1.2	84
80	Recombination, repair and replication in the pathogenic <i>Neisseriae</i> : the 3 R's of molecular genetics of two human-specific bacterial pathogens. <i>Molecular Microbiology</i> , 2003, 51, 297-297.	1.2	1
81	<i>Escherichia coli</i> RecX Inhibits RecA Recombinase and Coprotease Activities in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , 2003, 278, 2278-2285.	1.6	161
82	Low-Level Pilin Expression Allows for Substantial DNA Transformation Competence in <i>Neisseria gonorrhoeae</i> . <i>Infection and Immunity</i> , 2003, 71, 6279-6291.	1.0	63
83	Single pilus motor forces exceed 100 pN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16012-16017.	3.3	358
84	The outer membrane localization of the <i>Neisseria gonorrhoeae</i> MsrA/B is involved in survival against reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10108-10113.	3.3	120
85	Roles of the <i>recJ</i> and <i>recN</i> Genes in Homologous Recombination and DNA Repair Pathways of <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 2002, 184, 919-927.	1.0	91
86	Differential cross-complementation patterns of <i>Escherichia coli</i> and <i>Neisseria gonorrhoeae</i> RecA proteins. <i>Microbiology (United Kingdom)</i> , 2002, 148, 1821-1831.	0.7	17
87	The <i>recX</i> gene potentiates homologous recombination in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2001, 40, 1301-1310.	1.2	94
88	A variable genetic island specific for <i>Neisseria gonorrhoeae</i> is involved in providing DNA for natural transformation and is found more often in disseminated infection isolates. <i>Molecular Microbiology</i> , 2001, 41, 263-277.	1.2	173
89	Modulation of Gonococcal Piliation by Regulatable Transcription of <i>pilE</i> . <i>Journal of Bacteriology</i> , 2001, 183, 1600-1609.	1.0	35
90	Inverse relationship between pilus-mediated gonococcal adherence and surface expression of the pilus receptor, CD46. <i>Microbiology (United Kingdom)</i> , 2001, 147, 2333-2340.	0.7	49

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91	Iron availability regulates DNA recombination in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 2000, 37, 1075-1086.	1.2	44
92	Molecular models accounting for the gene conversion reactions mediating gonococcal pilin antigenic variation. <i>Molecular Microbiology</i> , 2000, 37, 1146-1158.	1.2	101
93	A Homologue of the Recombination-Dependent Growth Gene, <i>rdgC</i> , Is Involved in Gonococcal Pilin Antigenic Variation. <i>Genetics</i> , 2000, 154, 523-532.	1.2	121
94	Insertion Mutations in <i>pilE</i> Differentially Alter Gonococcal Pilin Antigenic Variation. <i>Journal of Bacteriology</i> , 1999, 181, 6133-6141.	1.0	23
95	Differential roles of homologous recombination pathways in <i>Neisseria gonorrhoeae</i> pilin antigenic variation, DNA transformation and DNA repair. <i>Molecular Microbiology</i> , 1998, 30, 697-710.	1.2	185
96	Comparisons between Colony Phase Variation of <i>Neisseria gonorrhoeae</i> FA1090 and Pilus, Pilin, and S-Pilin Expression. <i>Infection and Immunity</i> , 1998, 66, 1918-1927.	1.0	55
97	Frequency of Pilin Antigenic Variation in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 1998, 180, 1955-1958.	1.0	46
98	A peptidoglycan hydrolase similar to bacteriophage endolysins acts as an autolysin in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 1997, 25, 893-901.	1.2	39
99	Random shuttle mutagenesis: gonococcal mutants deficient in pilin antigenic variation. <i>Molecular Microbiology</i> , 1997, 23, 1121-1131.	1.2	48
100	The size and position of heterologous insertions in a silent locus differentially affect pilin recombination in <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 1996, 22, 509-522.	1.2	39
101	Questions about gonococcal pilus phase- and antigenic variation. <i>Molecular Microbiology</i> , 1996, 21, 433-440.	1.2	112
102	Characterization of the <i>pilF</i> ? <i>pilD</i> pilus-assembly locus of <i>Neisseria gonorrhoeae</i> . <i>Molecular Microbiology</i> , 1995, 16, 575-586.	1.2	159
103	Antigenic Variation in Bacterial Pathogens. , 0, , 445-480.		2