

Daniel C Stein

List of Publications by Year in descending order

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102
papers

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citations

218381

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182168

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103
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103
times ranked

2133
citing authors

#	ARTICLE	IF	CITATIONS
1	A nomenclature for restriction enzymes, DNA methyltransferases, homing endonucleases and their genes. <i>Nucleic Acids Research</i> , 2003, 31, 1805-1812.	6.5	634
2	Effect of Spectinomycin Use on the Prevalence of Spectinomycin-Resistant and of Penicillinase-Producing <i>Neisseria Gonorrhoeae</i> . <i>New England Journal of Medicine</i> , 1987, 317, 272-278.	13.9	144
3	Genetic basis of <i>Neisseria gonorrhoeae</i> lipooligosaccharide antigenic variation. <i>Journal of Bacteriology</i> , 1995, 177, 7275-7279.	1.0	99
4	Identification of the gene (lgtG) encoding the lipooligosaccharide A chain synthesizing glucosyl transferase from <i>Neisseria gonorrhoeae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 10872-10877.	3.3	99
5	Characterization of a gyrB mutation responsible for low-level nalidixic acid resistance in <i>Neisseria gonorrhoeae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1991, 35, 622-626.	1.4	97
6	<i>Neisseria</i> Lipooligosaccharide Is a Target for Complement Component C4b. <i>Journal of Biological Chemistry</i> , 2003, 278, 50853-50862.	1.6	82
7	Role of Lipooligosaccharide in Opa-Independent Invasion of <i>Neisseria gonorrhoeae</i> into Human Epithelial Cells. <i>Journal of Experimental Medicine</i> , 2000, 191, 949-960.	4.2	75
8	Antigenic variation in <i>Neisseria gonorrhoeae</i> : production of multiple lipooligosaccharides. <i>Journal of Bacteriology</i> , 1997, 179, 982-986.	1.0	70
9	Use of a non-selective transformation technique to construct a multiply restriction/modification-deficient mutant of <i>Neisseria gonorrhoeae</i> . <i>Molecular Genetics and Genomics</i> , 1996, 251, 509-517.	2.4	65
10	Restriction and modification systems of <i>neisseria gonorrhoeae</i> . <i>Gene</i> , 1995, 157, 19-22.	1.0	59
11	Transformation of <i>Neisseria gonorrhoeae</i> : physical requirements of the transforming DNA. <i>Canadian Journal of Microbiology</i> , 1991, 37, 345-349.	0.8	54
12	Restriction of plasmid DNA during transformation but not conjugation in <i>Neisseria gonorrhoeae</i> . <i>Infection and Immunity</i> , 1988, 56, 112-116.	1.0	52
13	Construction and characterization of a new shuttle vector, pLES2, capable of functioning in <i>Escherichia coli</i> and <i>Neisseria gonorrhoeae</i> . <i>Gene</i> , 1983, 25, 241-247.	1.0	50
14	<i>Neisseria gonorrhoeae</i> breaches the apical junction of polarized epithelial cells for transmigration by activating EGFR. <i>Cellular Microbiology</i> , 2013, 15, 1042-1057.	1.1	49
15	Lack of Lipid A Pyrophosphorylation and Functional <i>lptA</i> Reduces Inflammation by <i>Neisseria</i> Commensals. <i>Infection and Immunity</i> , 2012, 80, 4014-4026.	1.0	48
16	Characterization of <i>Bacillus subtilis</i> DSM704 and its production of 1-deoxynojirimycin. <i>Applied and Environmental Microbiology</i> , 1984, 48, 280-284.	1.4	48
17	Importance of lipooligosaccharide structure in determining gonococcal resistance to hydrophobic antimicrobial agents resulting from the mtr efflux system. <i>Molecular Microbiology</i> , 1995, 16, 1001-1009.	1.2	47
18	Assessing Student Understanding of Host Pathogen Interactions Using a Concept Inventory. <i>Journal of Microbiology and Biology Education</i> , 2009, 10, 43-50.	0.5	47

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19	Characterization of melA: a gene encoding melanin biosynthesis from the marine bacterium <i>Shewanella colwelliana</i> . <i>Gene</i> , 1991, 109, 131-136.	1.0	46
20	A Model for Using a Concept Inventory as a Tool for Students' Assessment and Faculty Professional Development. <i>CBE Life Sciences Education</i> , 2010, 9, 408-416.	1.1	44
21	Characterization of the dsDNA prophage sequences in the genome of <i>Neisseria gonorrhoeae</i> and visualization of productive bacteriophage. <i>BMC Microbiology</i> , 2007, 7, 66.	1.3	43
22	<i>Neisseria gonorrhoeae</i> infects the human endocervix by activating non-muscle myosin II-mediated epithelial exfoliation. <i>PLoS Pathogens</i> , 2017, 13, e1006269.	2.1	40
23	The Hae IV restriction modification system of <i>Haemophilus aegyptius</i> is encoded by a single polypeptide 1 Edited by M. Gottesman. <i>Journal of Molecular Biology</i> , 1999, 293, 1055-1065.	2.0	39
24	A Faculty Team Works to Create Content Linkages among Various Courses to Increase Meaningful Learning of Targeted Concepts of Microbiology. <i>CBE Life Sciences Education</i> , 2007, 6, 155-162.	1.1	37
25	Expression of Opacity Proteins Interferes with the Transmigration of <i>Neisseria gonorrhoeae</i> across Polarized Epithelial Cells. <i>PLoS ONE</i> , 2015, 10, e0134342.	1.1	37
26	A new method for the rapid identification of genes encoding restriction and modification enzymes. <i>Nucleic Acids Research</i> , 1991, 19, 1831-1835.	6.5	34
27	Characterization of a chimeric β -lactamase plasmid of <i>Neisseria gonorrhoeae</i> which can function in <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1983, 189, 77-84.	2.4	31
28	Use of transformation to construct <i>Neisseria gonorrhoeae</i> strains with altered lipooligosaccharides. <i>Infection and Immunity</i> , 1988, 56, 762-765.	1.0	29
29	Analysis of the <i>lsi</i> region involved in lipooligosaccharide biosynthesis in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 1991, 173, 7896-7902.	1.0	27
30	<i>Neisseria gonorrhoeae</i> -induced transactivation of EGFR enhances gonococcal invasion. <i>Cellular Microbiology</i> , 2011, 13, 1078-1090.	1.1	27
31	nagZ Triggers Gonococcal Biofilm Disassembly. <i>Scientific Reports</i> , 2016, 6, 22372.	1.6	27
32	Construction and Characterization of a Derivative of <i>Neisseria gonorrhoeae</i> Strain MS11 Devoid of All <i>opa</i> Genes. <i>Journal of Bacteriology</i> , 2012, 194, 6468-6478.	1.0	26
33	Purification and characterization of DNA methyltransferases from <i>Neisseria gonorrhoeae</i> . <i>Nucleic Acids Research</i> , 1988, 16, 5957-5972.	6.5	25
34	Role of phosphoglucomutase in lipooligosaccharide biosynthesis in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 1994, 176, 2930-2937.	1.0	25
35	A mutation in the <i>Neisseria gonorrhoeae</i> <i>rfaD</i> homolog results in altered lipooligosaccharide expression. <i>Journal of Bacteriology</i> , 1995, 177, 2321-2327.	1.0	25
36	Synthesis, Characterization, and Application of Antibody Functionalized Fluorescent Silica Nanoparticles. <i>Advanced Functional Materials</i> , 2013, 23, 3335-3343.	7.8	25

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37	Effect of gonococcal lipooligosaccharide variation on human monocytic cytokine profile. <i>BMC Microbiology</i> , 2007, 7, 7.	1.3	24
38	Plasmids with easily excisable xylE cassettes. <i>Gene</i> , 1992, 117, 157-158.	1.0	23
39	Cloning genes for proline biosynthesis from <i>Neisseria gonorrhoeae</i> : identification by interspecific complementation of <i>Escherichia coli</i> mutants. <i>Journal of Bacteriology</i> , 1984, 158, 696-700.	1.0	23
40	Construction of a <i>Neisseria gonorrhoeae</i> MS11 derivative deficient in NgoMI restriction and modification. <i>Journal of Bacteriology</i> , 1992, 174, 4899-4906.	1.0	22
41	<i>Neisseria gonorrhoeae</i> Filamentous Phage NgoA6 Is Capable of Infecting a Variety of Gram-Negative Bacteria. <i>Journal of Virology</i> , 2014, 88, 1002-1010.	1.5	22
42	Novel Catanionic Surfactant Vesicle Vaccines Protect against <i>Francisella tularensis</i> LVS and Confer Significant Partial Protection against <i>F. tularensis</i> Schu S4 Strain. <i>Vaccine Journal</i> , 2014, 21, 212-226.	3.2	22
43	Molecular analysis of lipooligosaccharide biosynthesis in <i>Neisseria gonorrhoeae</i> . <i>Infection and Immunity</i> , 1989, 57, 2847-2852.	1.0	21
44	Interaction with lectins and differential wheat germ agglutinin binding of pyocin 103-sensitive and -resistant <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 1981, 148, 796-803.	1.0	21
45	Genetic basis of pyocin resistance in <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 1994, 176, 6869-6876.	1.0	20
46	Analysis of Lipooligosaccharide Biosynthesis in the Neisseriaceae. <i>Journal of Bacteriology</i> , 2001, 183, 934-941.	1.0	20
47	<i>Neisseria gonorrhoeae</i> strain PID2 simultaneously expresses six chemically related lipooligosaccharide structures. <i>Glycobiology</i> , 2002, 12, 523-533.	1.3	20
48	Analysis of type I restriction modification systems in the Neisseriaceae: genetic organization and properties of the gene products. <i>Molecular Microbiology</i> , 2008, 41, 1199-1210.	1.2	20
49	Cloning of a gonococcal DNA sequence that complements the lipooligosaccharide defects of <i>Neisseria gonorrhoeae</i> 1291d and 1291e. <i>Infection and Immunity</i> , 1993, 61, 3360-3368.	1.0	19
50	Cloning and linkage analysis of <i>Neisseria gonorrhoeae</i> DNA methyltransferases. <i>Journal of Bacteriology</i> , 1992, 174, 5654-5660.	1.0	18
51	The <i>Neisseria gonorrhoeae</i> S.NgoVIII restriction/modification system: a type IIs system homologous to the <i>Haemophilus parahaemolyticus</i> HphI restriction/modification system. <i>Nucleic Acids Research</i> , 1997, 25, 4147-4152.	6.5	18
52	<i>Neisseria gonorrhoeae</i> infects the heterogeneous epithelia of the human cervix using distinct mechanisms. <i>PLoS Pathogens</i> , 2019, 15, e1008136.	2.1	18
53	Applications of Biotechnology to the Production, Recovery and Use of Marine Polysaccharides. <i>Bio/technology</i> , 1985, 3, 899-902.	1.9	17
54	Lipooligosaccharide Structures of Invasive and Carrier Isolates of <i>Neisseria meningitidis</i> Are Correlated with Pathogenicity and Carriage. <i>Journal of Biological Chemistry</i> , 2016, 291, 3224-3238.	1.6	17

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55	Biochemical Analysis of Lpt3, a Protein Responsible for Phosphoethanolamine Addition to Lipooligosaccharide of Pathogenic <i>Neisseria</i> . <i>Journal of Bacteriology</i> , 2006, 188, 1039-1048.	1.0	16
56	Cloning, complementation, and characterization of an rfaE homolog from <i>Neisseria gonorrhoeae</i> . <i>Journal of Bacteriology</i> , 1996, 178, 4571-4575.	1.0	15
57	Oral Immunization of Rabbits with <i>S. enterica</i> Typhimurium Expressing <i>Neisseria gonorrhoeae</i> Filamentous Phage ϕ 6 Induces Bactericidal Antibodies Against <i>N. gonorrhoeae</i> . <i>Scientific Reports</i> , 2016, 6, 22549.	1.6	15
58	<i>Neisseria gonorrhoeae</i> Aggregation Reduces Its Ceftriaxone Susceptibility. <i>Antibiotics</i> , 2018, 7, 48.	1.5	15
59	Sequence similarities between the genes encoding the S.NgoI and Haell restriction/modification systems. <i>Biological Chemistry</i> , 1998, 379, 575-8.	1.2	15
60	Isolation of temperature-sensitive McrA and McrB mutations and complementation analysis of the McrBC region of <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1991, 173, 150-155.	1.0	14
61	Structural and Immunochemical Characterization of the Lipooligosaccharides Expressed by <i>Neisseria subflava</i> 44. <i>Journal of Bacteriology</i> , 2001, 183, 942-950.	1.0	14
62	TNF- α -Independent IL-8 Expression: Alterations in Bacterial Challenge Dose Cause Differential Human Monocytic Cytokine Response. <i>Journal of Immunology</i> , 2006, 177, 1314-1322.	0.4	14
63	Quantification of bacterial internalization by host cells using a β -lactamase reporter strain: <i>Neisseria gonorrhoeae</i> invasion into cervical epithelial cells requires bacterial viability. <i>Microbes and Infection</i> , 2008, 10, 1182-1191.	1.0	14
64	Innate immune response to lipooligosaccharide: pivotal regulator of the pathobiology of invasive <i>Neisseria meningitidis</i> infections. <i>Pathogens and Disease</i> , 2017, 75, .	0.8	13
65	Biochemical Properties of <i>Neisseria gonorrhoeae</i> LgtE. <i>Journal of Bacteriology</i> , 2002, 184, 6410-6416.	1.0	12
66	The lgtABCDE Gene Cluster, Involved in Lipooligosaccharide Biosynthesis in <i>Neisseria gonorrhoeae</i> , Contains Multiple Promoter Sequences. <i>Journal of Bacteriology</i> , 2004, 186, 1038-1049.	1.0	12
67	Structural Requirements for Monoclonal Antibody 2-1-L8 Recognition of <i>Neisseria</i> Lipooligosaccharides. <i>Hybridoma</i> , 2008, 27, 71-79.	0.5	11
68	Use of xyle fusions to demonstrate that lsi-1, a <i>Neisseria gonorrhoeae</i> lipooligosaccharide biosynthetic gene, and lsi-3 are not transcriptionally linked. <i>Journal of Bacteriology</i> , 1994, 176, 3428-3432.	1.0	10
69	Construction and Characterization of Chimeric β -Lactamase Plasmids of <i>Neisseria gonorrhoeae</i> with Altered Ability to Be Mobilized during Conjugation. <i>Sexually Transmitted Diseases</i> , 1985, 12, 76-82.	0.8	9
70	Identification of a new restriction endonuclease, R.NgoBI, from <i>Neisseria gonorrhoeae</i> . <i>Nucleic Acids Research</i> , 1988, 16, 9868-9868.	6.5	9
71	Introduction of cloned genes into <i>Neisseria gonorrhoeae</i> . <i>Clinical Microbiology Reviews</i> , 1989, 2, S146-9.	5.7	9
72	Natural variation of the NgoII restriction-modification system of <i>Neisseria gonorrhoeae</i> . <i>Gene</i> , 1993, 132, 15-20.	1.0	8

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73	<i>Neisseria gonorrhoeae</i> FA1090 Carries Genes Encoding Two Classes of Vsr Endonucleases. <i>Journal of Bacteriology</i> , 2010, 192, 3951-3960.	1.0	8
74	Using a Concept Inventory to Reveal Student Thinking Associated with Common Misconceptions about Antibiotic Resistance. <i>Journal of Microbiology and Biology Education</i> , 2017, 18, .	0.5	8
75	Cationic Surfactant Vesicles as a New Platform for Probing Glycan-Protein Interactions. <i>Advanced Functional Materials</i> , 2018, 28, 1706215.	7.8	7
76	Expression of closed restriction and modification genes, <i>hjaIRM</i> from <i>Jannaschiana</i> in <i>Escherichia coli</i> . <i>Gene</i> , 1990, 89, 129-132.	1.0	6
77	Structural heterogeneity of the lipopolysaccharides of the <i>Neisseriaceae</i> . <i>FEMS Microbiology Letters</i> , 1991, 90, 69-72.	0.7	6
78	Purification and characterization of a new DNA methyltransferase from <i>Neisseria gonorrhoeae</i> . <i>Gene</i> , 1995, 157, 101-102.	1.0	6
79	Sequence-Based Predictions of Lipooligosaccharide Diversity in the <i>Neisseriaceae</i> and Their Implication in Pathogenicity. <i>PLoS ONE</i> , 2011, 6, e18923.	1.1	6
80	Role of restriction and modification on genetic exchange in <i>Neisseria gonorrhoeae</i> . , 1988, , 323-327.		6
81	Inhibition of Active Transport and Macromolecular Synthesis by Pyocin 103 in <i>Neisseria gonorrhoeae</i> . <i>Sexually Transmitted Diseases</i> , 1983, 10, 7-13.	0.8	5
82	Association of host proteins with the broad host range filamentous phage ϕ 6 of <i>Neisseria gonorrhoeae</i> . <i>PLoS ONE</i> , 2020, 15, e0240579.	1.1	5
83	Use of a non-selective transformation technique to construct a multiply Restriction/Modification-deficient mutant of. <i>Molecular Genetics and Genomics</i> , 1996, 251, 509.	2.4	5
84	Effect of environment on sensitivity of <i>Neisseria gonorrhoeae</i> to <i>Pseudomonas aeruginosa</i> bacteriocins. <i>Infection and Immunity</i> , 1980, 29, 507-511.	1.0	5
85	<i>Neisseria gonorrhoeae</i> ϕ 6 DNA methyltransferase: physical and catalytic properties of the homogeneous enzyme. <i>Gene</i> , 1988, 74, 93-97.	1.0	4
86	Construction of a temperature-sensitive mutation for the direct identification of plasmids encoding DNA methyltransferases. <i>Gene</i> , 1988, 74, 233-235.	1.0	4
87	Use of <i>nfsB</i> , encoding nitroreductase, as a reporter gene to determine the mutational spectrum of spontaneous mutations in <i>Neisseria gonorrhoeae</i> . <i>BMC Microbiology</i> , 2009, 9, 239.	1.3	4
88	Cleavage of DNA by <i>HaeIII</i> is inhibited by the presence of 5-methylcytosine at the second cytosine within the recognition sequence. <i>Nucleic Acids Research</i> , 1989, 17, 10132-10132.	6.5	3
89	Structural Characterization of an Oligosaccharide Made by <i>Neisseria sicca</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3311-3320.	1.0	3
90	Immunofluorescence Analysis of Human Endocervical Tissue Explants Infected with <i>Neisseria gonorrhoeae</i> . <i>Bio-protocol</i> , 2018, 8, .	0.2	3

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91	The Neisseria. , 2006, , 602-647.		3
92	In Vitro Analysis of Matched Isolates from Localized and Disseminated Gonococcal Infections Suggests That Opa Expression Impacts Clinical Outcome. Pathogens, 2022, 11, 217.	1.2	3
93	Structural heterogeneity of the lipopolysaccharides of the Neisseriaceae. FEMS Microbiology Letters, 1991, 69, 69-72.	0.7	3
94	A New Vaccination Method Based on Phage Ngo16 and Its Phagemid Derivatives. Frontiers in Microbiology, 2022, 13, 793205.	1.5	3
95	Adaptation of Neisseria gonorrhoeae to the Female Reproductive Tract. Microbiology Insights, 2020, 13, 117863612094707.	0.9	2
96	Extraction of Membrane Components from Neisseria gonorrhoeae Using Catanionic Surfactant Vesicles: A New Approach for the Study of Bacterial Surface Molecules. Pharmaceutics, 2020, 12, 787.	2.0	2
97	Alteration of serum sensitivity in Neisseria gonorrhoeae strain DOV by transformation. , 1988, , 599-604.		1
98	Gonococcal invasion into epithelial cells depends on both cell polarity and ezrin. PLoS Pathogens, 2021, 17, e1009592.	2.1	1
99	Chapter 7 Principles of bacterial pathogenesis. Principles of Medical Biology, 1998, , 85-97.	0.1	0
100	Antigenic variation of microbial surface glycosylated molecules. , 2010, , 819-835.		0
101	Quantitative Examination of Antibiotic Susceptibility of <i>Neisseria gonorrhoeae</i> Aggregates Using ATP-utilization Commercial Assays and Live/Dead Staining. Journal of Visualized Experiments, 2019, , .	0.2	0
102	Introduction of cloned genes into Neisseria gonorrhoeae.. Clinical Microbiology Reviews, 1989, 2, S146-S149.	5.7	0