

Susan M Logan

List of Publications by Year in descending order

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64
papers

4,638
citations

109321

35
h-index

118850

62
g-index

64
all docs

64
docs citations

64
times ranked

3227
citing authors

#	ARTICLE	IF	CITATIONS
1	Evasion of Toll-like receptor 5 by flagellated bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9247-9252.	7.1	560
2	Identification of the Carbohydrate Moieties and Glycosylation Motifs in <i>Campylobacter jejuni</i> Flagellin. Journal of Biological Chemistry, 2001, 276, 34862-34870.	3.4	323
3	Changes in flagellin glycosylation affect <i>Campylobacter</i> autoagglutination and virulence. Molecular Microbiology, 2006, 60, 299-311.	2.5	227
4	Pseudaminic acid, the major modification on <i>Campylobacter</i> flagellin, is synthesized via the Cj1293 gene. Molecular Microbiology, 2003, 50, 659-671.	2.5	174
5	<i>Campylobacter</i> – a tale of two protein glycosylation systems. Trends in Microbiology, 2003, 11, 233-238.	7.7	166
6	Functional Characterization of Dehydratase/Aminotransferase Pairs from <i>Helicobacter</i> and <i>Campylobacter</i> . Journal of Biological Chemistry, 2006, 281, 723-732.	3.4	154
7	Elucidation of the CMP-pseudaminic acid pathway in <i>Helicobacter pylori</i> : synthesis from UDP-N-acetylglucosamine by a single enzymatic reaction. Glycobiology, 2006, 16, 8C-14C.	2.5	153
8	Identification of genes involved in the biosynthesis and attachment of <i>Methanococcus voltae</i> N-linked glycans: insight into N-linked glycosylation pathways in Archaea. Molecular Microbiology, 2006, 61, 259-268.	2.5	138
9	Structural heterogeneity of carbohydrate modifications affects serospecificity of <i>Campylobacter</i> flagellins. Molecular Microbiology, 2002, 46, 587-597.	2.5	132
10	Identification and Characterization of the Unique N-Linked Glycan Common to the Flagellins and S-layer Glycoprotein of <i>Methanococcus voltae</i> . Journal of Biological Chemistry, 2005, 280, 16586-16593.	3.4	132
11	Modulation of Toxin Production by the Flagellar Regulon in <i>Clostridium difficile</i> . Infection and Immunity, 2012, 80, 3521-3532.	2.2	128
12	Motility and Flagellar Glycosylation in <i>Clostridium difficile</i> . Journal of Bacteriology, 2009, 191, 7050-7062.	2.2	126
13	<i>Campylobacter jejuni</i> Glycosylation Island Important in Cell Charge, Legionaminic Acid Biosynthesis, and Colonization of Chickens. Infection and Immunity, 2009, 77, 2544-2556.	2.2	121
14	The CMP-legionaminic acid pathway in <i>Campylobacter</i> : Biosynthesis involving novel GDP-linked precursors. Glycobiology, 2009, 19, 715-725.	2.5	121
15	Identification of Unusual Bacterial Glycosylation by Tandem Mass Spectrometry Analyses of Intact Proteins. Analytical Chemistry, 2005, 77, 7774-7782.	6.5	120
16	Targeted Metabolomics Analysis of <i>Campylobacter coli</i> VC167 Reveals Legionaminic Acid Derivatives as Novel Flagellar Glycans. Journal of Biological Chemistry, 2007, 282, 14463-14475.	3.4	107
17	Functional Characterization of the Flagellar Glycosylation Locus in <i>Campylobacter jejuni</i> 81-176 Using a Focused Metabolomics Approach. Journal of Biological Chemistry, 2006, 281, 18489-18498.	3.4	105
18	Lipopolysaccharide structures of <i>Helicobacter pylori</i> genomic strains 26695 and J99, mouse model <i>H. pylori</i> Sydney strain, <i>H. pylori</i> P466 carrying sialyl Lewis X, and <i>H. pylori</i> UA915 expressing Lewis B. FEBS Journal, 2000, 267, 305-320.	0.2	97

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19	Structural and Functional Characterization of PseC, an Aminotransferase Involved in the Biosynthesis of Pseudaminic Acid, an Essential Flagellar Modification in <i>Helicobacter pylori</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 8907-8916.	3.4	88
20	Identification of genes involved in the assembly and attachment of a novel flagellin N-linked tetrasaccharide important for motility in the archaeon <i>Methanococcus maripaludis</i> . <i>Molecular Microbiology</i> , 2009, 72, 633-644.	2.5	84
21	Structural characterization of surface glycans from <i>Clostridium difficile</i> . <i>Carbohydrate Research</i> , 2012, 354, 65-73.	2.3	78
22	Glycosylation of b-Type Flagellin of <i>Pseudomonas aeruginosa</i> : Structural and Genetic Basis. <i>Journal of Bacteriology</i> , 2006, 188, 4395-4403.	2.2	73
23	Flagellar glycosylation in <i>Clostridium botulinum</i> . <i>FEBS Journal</i> , 2008, 275, 4428-4444.	4.7	72
24	A novel N-linked flagellar glycan from <i>Methanococcus maripaludis</i> . <i>Carbohydrate Research</i> , 2009, 344, 648-653.	2.3	67
25	Selective Detection and Identification of Sugar Nucleotides by CE-MS and Its Application to Bacterial Metabolomics. <i>Analytical Chemistry</i> , 2004, 76, 619-626.	6.5	62
26	Identification of novel carbohydrate modifications on <i>Campylobacter jejuni</i> 11168 flagellin using metabolomics-based approaches. <i>FEBS Journal</i> , 2009, 276, 1014-1023.	4.7	61
27	Genetic and Mass Spectrometry Analyses of the Unusual Type IV-Like Pili of the Archaeon <i>Methanococcus maripaludis</i> . <i>Journal of Bacteriology</i> , 2011, 193, 804-814.	2.2	60
28	The Engineering of Bacteria Bearing Azido-Pseudaminic Acid-Modified Flagella. <i>ChemBioChem</i> , 2009, 10, 1317-1320.	2.6	55
29	Novel biosynthetic functions of lipopolysaccharide rfaJ homologs from <i>Helicobacter pylori</i> . <i>Glycobiology</i> , 2005, 15, 721-733.	2.5	50
30	Role of Glycosyltransferases Modifying Type B Flagellin of Emerging Hypervirulent <i>Clostridium difficile</i> Lineages and Their Impact on Motility and Biofilm Formation. <i>Journal of Biological Chemistry</i> , 2016, 291, 25450-25461.	3.4	49
31	The post-translational modification of the <i>Clostridium difficile</i> flagellin affects motility, cell surface properties and virulence. <i>Molecular Microbiology</i> , 2014, 94, 272-289.	2.5	47
32	AglC and AglK Are Involved in Biosynthesis and Attachment of Diacetylated Glucuronic Acid to the N-Glycan in <i>Methanococcus voltae</i> . <i>Journal of Bacteriology</i> , 2009, 191, 187-195.	2.2	46
33	Investigating the candidacy of a lipoteichoic acid-based glycoconjugate as a vaccine to combat <i>Clostridium difficile</i> infection. <i>Glycoconjugate Journal</i> , 2013, 30, 843-855.	2.7	46
34	Pentavalent Single-Domain Antibodies Reduce <i>Campylobacter jejuni</i> Motility and Colonization in Chickens. <i>PLoS ONE</i> , 2013, 8, e83928.	2.5	42
35	Identification of a d - glycerol - d - mannose -Heptosyltransferase Gene from <i>Helicobacter pylori</i> . <i>Journal of Bacteriology</i> , 2005, 187, 5156-5165.	2.2	38
36	Small-Molecule Inhibitors of the Pseudaminic Acid Biosynthetic Pathway: Targeting Motility as a Key Bacterial Virulence Factor. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7430-7440.	3.2	36

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37	Occurrence of a nontypable <i>Helicobacter pylori</i> strain lacking Lewis blood group O antigens and DD-heptoglycan: evidence for the role of the core α 1,6-glucan chain in colonization. <i>Glycobiology</i> , 2003, 13, 777-783.	2.5	34
38	Flagellin Diversity in <i>Clostridium botulinum</i> Groups I and II: a New Strategy for Strain Identification. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2963-2975.	3.1	34
39	Identification of Genes Involved in the Acetamidino Group Modification of the Flagellin N-Linked Glycan of <i>Methanococcus maripaludis</i> . <i>Journal of Bacteriology</i> , 2012, 194, 2693-2702.	2.2	34
40	Identification of Novel Glycosyltransferases Required for Assembly of the <i>Pasteurella multocida</i> A:1 Lipopolysaccharide and Their Involvement in Virulence. <i>Infection and Immunity</i> , 2009, 77, 1532-1542.	2.2	27
41	A novel glycan modifies the flagellar filament proteins of the oral bacterium <i>Treponema denticola</i> . <i>Molecular Microbiology</i> , 2017, 103, 67-85.	2.5	27
42	Identification and Characterization of Glycoproteins on the Spore Surface of <i>Clostridium difficile</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2627-2637.	2.2	25
43	Targeting surface-layer proteins with single-domain antibodies: a potential therapeutic approach against <i>Clostridium difficile</i> -associated disease. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8549-8562.	3.6	25
44	<i>Helicobacter pylori</i> from asymptomatic hosts expressing heptoglycan but lacking Lewis O-chains: Lewis blood-group O-chains may play a role in <i>Helicobacter pylori</i> -induced pathology. <i>Biochemistry and Cell Biology</i> , 2001, 79, 449-459.	2.0	24
45	Identification of Labile UDP-Ketosugars in <i>Helicobacter pylori</i> , <i>Campylobacter jejuni</i> and <i>Pseudomonas aeruginosa</i> : Key Metabolites used to make Glycan Virulence Factors. <i>ChemBioChem</i> , 2006, 7, 1865-1868.	2.6	23
46	Antibiotic-Resistant <i>Acinetobacter baumannii</i> Is Susceptible to the Novel Iron-Sequestering Anti-infective DIBI <i>In Vitro</i> and in Experimental Pneumonia in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	23
47	CMP ϵ -Pseudaminic Acid is a Natural Potent Inhibitor of PseB, the First Enzyme of the Pseudaminic Acid Pathway in <i>Campylobacter jejuni</i> and <i>Helicobacter pylori</i> . <i>ChemMedChem</i> , 2008, 3, 55-59.	3.2	21
48	Structural and Functional Analysis of <i>Campylobacter jejuni</i> PseG. <i>Journal of Biological Chemistry</i> , 2009, 284, 20989-21000.	3.4	21
49	Effect of the HP0159 ORF mutation on the lipopolysaccharide structure and colonizing ability of <i>Helicobacter pylori</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2008, 53, 204-213.	2.7	20
50	Identification of Genes Involved in the Biosynthesis of the Third and Fourth Sugars of the <i>Methanococcus maripaludis</i> Archaelin N-Linked Tetrasaccharide. <i>Journal of Bacteriology</i> , 2013, 195, 4094-4104.	2.2	19
51	Evidence that Biosynthesis of the Second and Third Sugars of the Archaelin Tetrasaccharide in the Archaeon <i>Methanococcus maripaludis</i> Occurs by the Same Pathway Used by <i>Pseudomonas aeruginosa</i> To Make a Di-N-Acetylated Sugar. <i>Journal of Bacteriology</i> , 2015, 197, 1668-1680.	2.2	17
52	Flagellin and Outer Surface Proteins from <i>Borrelia burgdorferi</i> Are Not Glycosylated. <i>Journal of Bacteriology</i> , 2008, 190, 2619-2623.	2.2	16
53	The Type B Flagellin of Hypervirulent <i>Clostridium difficile</i> Is Modified with Novel Sulfonated Peptidylamido-glycans. <i>Journal of Biological Chemistry</i> , 2016, 291, 25439-25449.	3.4	16
54	Production of a d-glycero-d-manno-heptosyltransferase mutant of <i>Mannheimia haemolytica</i> displaying a veterinary pathogen specific conserved LPS structure; development and functionality of antibodies to this LPS structure. <i>Veterinary Microbiology</i> , 2006, 116, 175-186.	1.9	14

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55	Characterization of a <i>waaF</i> mutant of <i>Helicobacter pylori</i> strain 26695 provides evidence that an extended lipopolysaccharide structure has a limited role in the invasion of gastric cancer cells. <i>Biochemistry and Cell Biology</i> , 2007, 85, 582-590.	2.0	14
56	Protein Glycosylation in <i>Campylobacter jejuni</i> : Partial Suppression of <i>pglF</i> by Mutation of <i>pseC</i> . <i>Journal of Bacteriology</i> , 2007, 189, 6731-6733.	2.2	13
57	The S-layer protein of a <i>Clostridium difficile</i> SLCT-11 strain displays a complex glycan required for normal cell growth and morphology. <i>Journal of Biological Chemistry</i> , 2018, 293, 18123-18137.	3.4	13
58	Identification of a novel N-linked glycan on the archaellins and S-layer protein of the thermophilic methanogen, <i>Methanothermococcus thermolithotrophicus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 14618-14629.	3.4	11
59	In Vitro Production and Immunogenicity of a <i>Clostridium difficile</i> Spore-Specific BclA3 Glycopeptide Conjugate Vaccine. <i>Vaccines</i> , 2020, 8, 73.	4.4	9
60	Development and Characterization of Mouse Monoclonal Antibodies Specific for <i>Clostridiodes (Clostridium) difficile</i> Lipoteichoic Acid. <i>ACS Chemical Biology</i> , 2020, 15, 1050-1058.	3.4	7
61	Structural characterization of wall and lipidated polysaccharides from <i>Clostridium perfringens</i> ATCC 13124. <i>Carbohydrate Research</i> , 2017, 448, 88-94.	2.3	5
62	<i>O</i> -Linked Flagellar Glycosylation in <i>Campylobacter</i> . , 0, , 471-481.		4
63	Identification of a gene involved in the biosynthesis pathway of the terminal sugar of the archaellin N-linked tetrasaccharide in <i>Methanococcus maripaludis</i> . <i>Antonie Van Leeuwenhoek</i> , 2016, 109, 131-148.	1.7	4
64	Glycosylation of bacterial and archaeal flagellins. , 2010, , 129-146.		0