Martine Caroff

List of Publications by Citations

40 papers	1,636 citations	19 h-index	40 g-index
42 ext. papers	1,792 ext. citations	4.2 avg, IF	4.4 L-index

#	Paper	IF	Citations
40	Structure of bacterial lipopolysaccharides. *Carbohydrate Research*, **2003**, 338, 2431-47	2.9	354
39	Detergent-accelerated hydrolysis of bacterial endotoxins and determination of the anomeric configuration of the glycosyl phosphate present in the "isolated lipid A" fragment of the Bordetella pertussis endotoxin. *Carbohydrate Research*, **1988**, 175, 273-82	2.9	201
38	Structural and functional analyses of bacterial lipopolysaccharides. *Microbes and Infection*, **2002**, 4, 915-26	3	155
37	Microextraction of bacterial lipid A: easy and rapid method for mass spectrometric characterization. *Journal of Lipid Research*, **2005**, 46, 1773-8	6.3	127
36	Structure of the Bordetella pertussis 1414 endotoxin. *FEBS Letters*, **2000**, 477, 8-14	3.8	78
35	Direct microextraction and analysis of rough-type lipopolysaccharides by combined thin-layer chromatography and MALDI mass spectrometry. *Analytical Chemistry*, **2001**, 73, 3804-7	7.8	70
34	Do endotoxins devoid of 3-deoxy-D-manno-2-octulosonic acid exist?. *Biochemical and Biophysical Research Communications*, **1987**, 143, 845-7	3.4	56
33	Glucosamine found as a substituent of both phosphate groups in Bordetella lipid A backbones: role of a BvgAS-activated ArnT ortholog. *Journal of Bacteriology*, **2008**, 190, 4281-90	3.5	54
32	Novel variation of lipid A structures in strains of different Yersinia species. *FEBS Letters*, **2000**, 465, 87-92	3.8	50
31	Desulfovibrio desulfuricans isolates from the gut of a single individual: structural and biological lipid A characterization. *FEBS Letters*, **2015**, 589, 165-71	3.8	48
30	Biofilm-forming Pseudomonas aeruginosa bacteria undergo lipopolysaccharide structural modifications and induce enhanced inflammatory cytokine response in human monocytes. *Innate Immunity*, **2010**, 16, 288-301	2.7	47
29	Simple method for repurification of endotoxins for biological use. *Applied and Environmental Microbiology*, **2007**, 73, 1803-8	4.8	41
28	Substitution of the Bordetella pertussis lipid A phosphate groups with glucosamine is required for robust NF-kappaB activation and release of proinflammatory cytokines in cells expressing human but not murine Toll-like receptor 4-MD-2-CD14. *Infection and Immunity*, **2010**, 78, 2060-9	3.7	38
27	A rapid, small-scale procedure for the structural characterization of lipid A applied to Citrobacter and Bordetella strains: discovery of a new structural element. *Journal of Lipid Research*, **2007**, 48, 2419-27	6.3	35
26	Minor modifications to the phosphate groups and the C3Yacyl chain length of lipid A in two Bordetella pertussis strains, BP338 and 18-323, independently affect Toll-like receptor 4 protein activation. *Journal of Biological Chemistry*, **2013**, 288, 11751-60	5.4	32
25	Variability in the lipooligosaccharide structure and endotoxicity among Bordetella pertussis strains. *Journal of Infectious Diseases*, **2010**, 202, 1897-906	7	28
24	252Cf-plasma desorption mass spectrometry of unmodified lipid A: fragmentation patterns and localization of fatty acids. *Rapid Communications in Mass Spectrometry*, **1999**, 13, 2252-9	2.2	26

23	Chemical and serological characterization of the Bordetella hinzii lipopolysaccharides. *FEBS Letters*, **2000**, 485, 40-6	3.8	23
22	A new rapid and micro-scale hydrolysis, using triethylamine citrate, for lipopolysaccharide characterization by mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 2043-8	2.2	18
21	Antimicrobial Peptide Resistance Genes in the Plant Pathogen Dickeya dadantii. *Applied and Environmental Microbiology*, **2016**, 82, 6423-6430	4.8	14
20	Structural characterization of the O-chain polysaccharide isolated from Bordetella avium ATCC 5086: variation on a theme(1). *FEBS Letters*, **2003**, 535, 11-6	3.8	14
19	Structure of the Bordetella trematum LPS O-chain subunit. *FEBS Letters*, **2005**, 579, 18-24	3.8	12
18	Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins. *PLoS Pathogens*, **2020**, 16, e1008639	7.6	12
17	Micromethods for Isolation and Structural Characterization of Lipid A, and Polysaccharide Regions of Bacterial Lipopolysaccharides. *Methods in Molecular Biology*, **2017**, 1600, 167-186	1.4	9
16	Complete Bordetella avium, Bordetella hinzii and Bordetella trematum lipid A structures and genomic sequence analyses of the loci involved in their modifications. *Innate Immunity*, **2014**, 20, 659-72	2.7	9
15	A comparative study of the complete lipopolysaccharide structures and biosynthesis loci of Bordetella avium, B. hinzii, and B. trematum. *Biochimie*, **2019**, 159, 81-92	4.6	7
14	Structure activity characterization of Bordetella petrii lipid A, from environment to human isolates. *Biochimie*, **2016**, 120, 87-95	4.6	6
13	Structural and biological characteristics of different forms of lipid A: use of MS to highlight structural discrepancies. *Journal of Lipid Research*, **2017**, 58, 543-552	6.3	6
12	Lipopolysaccharides: structure, function and bacterial identification. *OCL - Oilseeds and Fats, Crops and Lipids*, **2020**, 27, 31	1.5	6
11	252Cf-plasma desorption mass spectrometry analysis of lipids A obtained by an elimination reaction under mild conditions. *Rapid Communications in Mass Spectrometry*, **1995**, 9, 693-6	2.2	6
10	Structure function relationships in three lipids A from the Ralstonia genus rising in obese patients. *Biochimie*, **2019**, 159, 72-80	4.6	5
9	Bordetella holmesii: Lipid A Structures and Corresponding Genomic Sequences Comparison in Three Clinical Isolates and the Reference Strain ATCC 51541. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	5
8	LPS Structure, Function, and Heterogeneity **2019**, 53-93		4
7	Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins		3
6	Regulation of by PhoB during P Starvation Promotes Biofilm Formation by Escherichia coli O157:H7. *Journal of Bacteriology*, **2019**, 201,	3.5	1

5 Escherichia coliO157:H7 responds to phosphate starvation by modifying LPS involved in biofilm formation 1

4 Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins **2020**, 16, e1008639

3 Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins **2020**, 16, e1008639

2 Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins **2020**, 16, e1008639

1 Leptospiral LPS escapes mouse TLR4 internalization and TRIF-associated antimicrobial responses through O antigen and associated lipoproteins **2020**, 16, e1008639