

# Flaviana Di Lorenzo

## List of Publications by Citations

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46  
papers

907  
citations

16  
h-index

28  
g-index

49  
ext. papers

1,242  
ext. citations

7.2  
avg, IF

4.19  
L-index

#	Paper	IF	Citations
46	Chemistry of lipid A: at the heart of innate immunity. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 500-19	4.8	147
45	Human caspase-4 detects tetra-acylated LPS and cytosolic Francisella and functions differently from murine caspase-11. <i>Nature Communications</i> , <b>2018</b> , 9, 242	17.4	82
44	Aminoarabinose is essential for lipopolysaccharide export and intrinsic antimicrobial peptide resistance in <i>Burkholderia cenocepacia</i> . <i>Molecular Microbiology</i> , <b>2012</b> , 85, 962-74	4.1	79
43	Lipopolysaccharide structures of Gram-negative populations in the gut microbiota and effects on host interactions. <i>FEMS Microbiology Reviews</i> , <b>2019</b> , 43, 257-272	15.1	51
42	The polysaccharide and low molecular weight components of <i>Opuntia ficus indica</i> cladodes: Structure and skin repairing properties. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 128-136	10.3	45
41	Chemical and biological properties of the novel exopolysaccharide produced by a probiotic strain of <i>Bifidobacterium longum</i> . <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 1172-1180	10.3	43
40	Activation of Human Toll-like Receptor 4 (TLR4) by Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of <i>Burkholderia cenocepacia</i> . <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 21305-19	5.4	36
39	Weak Agonistic LPS Restores Intestinal Immune Homeostasis. <i>Molecular Therapy</i> , <b>2019</b> , 27, 1974-1991	11.7	29
38	Pairing LPS Structure with Its Immunomodulatory Effects on Human Cellular Models. <i>ACS Central Science</i> , <b>2020</b> , 6, 1602-1616	16.8	23
37	The structure of the lipooligosaccharide from <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i> : the causal agent of the bacterial leaf blight in rice. <i>Carbohydrate Research</i> , <b>2016</b> , 427, 38-43	2.9	23
36	Protective effect of <i>Opuntia ficus-indica</i> L. cladodes against UVA-induced oxidative stress in normal human keratinocytes. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2017</b> , 27, 5485-5489	2.9	22
35	<i>Bifidobacterium bifidum</i> presents on the cell surface a complex mixture of glucans and galactans with different immunological properties. <i>Carbohydrate Polymers</i> , <b>2019</b> , 218, 269-278	10.3	22
34	Persistent cystic fibrosis isolate <i>Pseudomonas aeruginosa</i> strain RP73 exhibits an under-acylated LPS structure responsible of its low inflammatory activity. <i>Molecular Immunology</i> , <b>2015</b> , 63, 166-75	4.3	20
33	The Lipid A from <i>Rhodopseudomonas palustris</i> Strain BisA53 LPS Possesses a Unique Structure and Low Immunostimulant Properties. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 3637-3647	4.8	19
32	Gram-Negative Extremophile Lipopolysaccharides: Promising Source of Inspiration for a New Generation of Endotoxin Antagonists. <i>European Journal of Organic Chemistry</i> , <b>2017</b> , 2017, 4055-4073	3.2	18
31	Chemistry and biology of the potent endotoxin from a <i>Burkholderia dolosa</i> clinical isolate from a cystic fibrosis patient. <i>ChemBioChem</i> , <b>2013</b> , 14, 1105-15	3.8	17
30	The lipopolysaccharide core oligosaccharide of plays a critical role in maintaining a proper gut symbiosis with the bean bug. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19226-19237	5.4	16

29	Transcriptional responses of <i>Burkholderia cenocepacia</i> to polymyxin B in isogenic strains with diverse polymyxin B resistance phenotypes. <i>BMC Genomics</i> , <b>2011</b> , 12, 472	4.5	16
28	Thermophiles as potential source of novel endotoxin antagonists: the full structure and bioactivity of the lipo-oligosaccharide from <i>Thermomonas hydrothermalis</i> . <i>ChemBioChem</i> , <b>2014</b> , 15, 2146-55	3.8	15
27	Structure and inflammatory activity of the LPS isolated from <i>Acetobacter pasteurianus</i> CIP103108. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 119, 1027-1035	7.9	14
26	A Journey from Structure to Function of Bacterial Lipopolysaccharides. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	13
25	Chapter 3:Lipopolysaccharides as Microbe-associated Molecular Patterns: A Structural Perspective. <i>RSC Drug Discovery Series</i> , <b>2015</b> , 38-63	0.6	12
24	<i>Zymomonas mobilis</i> exopolysaccharide structure and role in high ethanol tolerance. <i>Carbohydrate Polymers</i> , <b>2018</b> , 201, 293-299	10.3	12
23	The Deep-Sea Polyextremophile <i>Halobacteroides lacunaris</i> TB21 Rough-Type LPS: Structure and Inhibitory Activity towards Toxic LPS. <i>Marine Drugs</i> , <b>2017</b> , 15,	6	11
22	The Very Long Chain Fatty Acid (C:25OH) Linked to the Lipid A Is Important for the Fitness of the Photosynthetic Strain ORS278 and the Establishment of a Successful Symbiosis with Legumes. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1821	5.7	11
21	Structural and conformational study of the O-polysaccharide produced by the metabolically versatile photosynthetic bacterium <i>Rhodospseudomonas palustris</i> strain BisA53. <i>Carbohydrate Polymers</i> , <b>2014</b> , 114, 384-391	10.3	10
20	The lipopolysaccharide lipid A structure from the marine sponge-associated bacterium <i>Pseudoalteromonas</i> sp. 2A. <i>Antonie Van Leeuwenhoek</i> , <b>2017</b> , 110, 1401-1412	2.1	9
19	Structure of the Lipopolysaccharide from the sp. ORS285 Mutant Strain. <i>ChemistryOpen</i> , <b>2017</b> , 6, 541-553.	3	9
18	Structure of O-Antigen and Hybrid Biosynthetic Locus in Clonal Variants Recovered from a Cystic Fibrosis Patient. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1027	5.7	9
17	<i>Xanthomonas citri</i> pv. <i>citri</i> Pathotypes: LPS Structure and Function as Microbe-Associated Molecular Patterns. <i>ChemBioChem</i> , <b>2017</b> , 18, 772-781	3.8	8
16	Structure of the unusual HH103 lipopolysaccharide and its role in symbiosis. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 10969-10987	5.4	8
15	Structural Study of the Lipopolysaccharide O-Antigen Produced by the Emerging Cystic Fibrosis Pathogen <i>Pandoraea pulmonicola</i> . <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 2243-2249	3.2	7
14	Lipopolysaccharide structure and biological activity from the cystic fibrosis pathogens <i>Burkholderia cenocepacia</i> complex. <i>Carbohydrate Chemistry</i> , <b>2012</b> , 13-39	3	6
13	Lipid A: Immunological Properties and Molecular Basis of Its Binding to the Myeloid Differentiation Protein-2/Toll-Like Receptor 4 Complex. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1888	8.4	6
12	Lipid A Structure and Immunoinhibitory Effect of the Marine Bacterium <i>Cobetia pacifica</i> KMM 3879T. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 2707-2716	3.2	5

11	Liquid-state NMR spectroscopy for complex carbohydrate structural analysis: A hitchhiker's guide. <i>Carbohydrate Polymers</i> , <b>2022</b> , 277, 118885	10.3	5
10	Prevotella denticola Lipopolysaccharide from a Cystic Fibrosis Isolate Possesses a Unique Chemical Structure. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 1732-1738	3.2	5
9	The Structure of the Lipid A from the Halophilic Bacterium Spiribacter salinus M19-40. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	4
8	Structural investigation of the lipopolysaccharide O-chain isolated from Burkholderia fungorum strain DSM 17061. <i>Carbohydrate Research</i> , <b>2016</b> , 433, 31-5	2.9	4
7	Lipopolysaccharide lipid A: A promising molecule for new immunity-based therapies and antibiotics. <i>Pharmacology &amp; Therapeutics</i> , <b>2021</b> , 230, 107970	13.9	4
6	Structure and Immunological Activity of the Lipopolysaccharide Isolated from the Species Alkalimonas delamerensis. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 2653-2665	3.2	3
5	Overexpression of Gene in Inhibits Cell Division and Causes Envelope Defects without Changing the Overall Phosphorylation Level of Lipid A. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	2
4	Structure of the O-Antigen and the Lipid A from the Lipopolysaccharide of Fusobacterium nucleatum ATCC 51191. <i>ChemBioChem</i> , <b>2021</b> , 22, 1252-1260	3.8	2
3	The Lipid A Structure from the Marine Sponge Symbiont Endozoicomonas sp. HEX 311. <i>ChemBioChem</i> , <b>2019</b> , 20, 230-236	3.8	1
2	A chronic strain of the cystic fibrosis pathogen Pandoraea pulmonicola expresses a heterogenous hypo-acylated lipid A. <i>Glycoconjugate Journal</i> , <b>2021</b> , 38, 135-144	3	1
1	Glycans in Bacterial Infections: Gram-Negative Infections in the Respiratory Tract <b>2021</b> , 233-249		1