# Antonio Molinaro

## List of Publications by Citations

**Source:** https://exaly.com/author-pdf/4050703/antonio-molinaro-publications-by-citations.pdf
**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|---|---|---|---|
| 325 papers | 9,244 citations | 44 h-index | 81 g-index |
| 350 ext. papers | 11,176 ext. citations | 6.4 avg, IF | 5.98 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 325 | European consensus conference on faecal microbiota transplantation in clinical practice. *Gut*, **2017**, 66, 569-580 | 19.2 | 520 |
| 324 | Multivalent glycoconjugates as anti-pathogenic agents. *Chemical Society Reviews*, **2013**, 42, 4709-27 | 58.5 | 399 |
| 323 | Arabidopsis lysin-motif proteins LYM1 LYM3 CERK1 mediate bacterial peptidoglycan sensing and immunity to bacterial infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 19824-9 | 11.5 | 349 |
| 322 | Microbially Produced Imidazole Propionate Impairs Insulin Signaling through mTORC1. *Cell*, **2018**, 175, 947-961.e17 | 56.2 | 267 |
| 321 | Microbiota-induced obesity requires farnesoid X receptor. *Gut*, **2017**, 66, 429-437 | 19.2 | 259 |
| 320 | Chitin-induced activation of immune signaling by the rice receptor CEBiP relies on a unique sandwich-type dimerization. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E404-13 | 11.5 | 212 |
| 319 | Functional analysis of the protein machinery required for transport of lipopolysaccharide to the outer membrane of Escherichia coli. *Journal of Bacteriology*, **2008**, 190, 4460-9 | 3.5 | 181 |
| 318 | Bacterial polysaccharides suppress induced innate immunity by calcium chelation. *Current Biology*, **2008**, 18, 1078-83 | 6.3 | 179 |
| 317 | Role of Bile Acids in Metabolic Control. *Trends in Endocrinology and Metabolism*, **2018**, 29, 31-41 | 8.8 | 178 |
| 316 | Chemistry of lipid A: at the heart of innate immunity. *Chemistry - A European Journal*, **2015**, 21, 500-19 | 4.8 | 147 |
| 315 | The elicitation of plant innate immunity by lipooligosaccharide of Xanthomonas campestris. *Journal of Biological Chemistry*, **2005**, 280, 33660-8 | 5.4 | 145 |
| 314 | Glyco-conjugates as elicitors or suppressors of plant innate immunity. *Glycobiology*, **2010**, 20, 406-19 | 5.8 | 141 |
| 313 | Priming, induction and modulation of plant defence responses by bacterial lipopolysaccharides. *Journal of Endotoxin Research*, **2007**, 13, 69-84 | | 121 |
| 312 | Microbe-associated molecular patterns in innate immunity: Extraction and chemical analysis of gram-negative bacterial lipopolysaccharides. *Methods in Enzymology*, **2010**, 480, 89-115 | 1.7 | 113 |
| 311 | Peptidoglycan and muropeptides from pathogens Agrobacterium and Xanthomonas elicit plant innate immunity: structure and activity. *Chemistry and Biology*, **2008**, 15, 438-48 | | 113 |
| 310 | Degradation of complex carbohydrate: immobilization of pectinase from Bacillus licheniformis KIBGE-IB21 using calcium alginate as a support. *Food Chemistry*, **2013**, 139, 1081-6 | 8.5 | 107 |
| 309 | Cell surface polysaccharides of induce the generation of Foxp3 regulatory T cells. *Science Immunology*, **2018**, 3, | 28 | 94 |

| | | | |
|---|---|---|---|
| 308 | Pseudomonas aeruginosa exploits lipid A and muropeptides modification as a strategy to lower innate immunity during cystic fibrosis lung infection. *PLoS ONE*, **2009**, 4, e8439 | 3.7 | 93 |
| 307 | Hopanoid lipids: from membranes to plant-bacteria interactions. *Nature Reviews Microbiology*, **2018**, 16, 304-315 | 22.2 | 91 |
| 306 | PNPLA3 Gene Polymorphism Is Associated With Predisposition to and Severity of Alcoholic Liver Disease. *American Journal of Gastroenterology*, **2015**, 110, 846-56 | 0.7 | 90 |
| 305 | Human caspase-4 detects tetra-acylated LPS and cytosolic Francisella and functions differently from murine caspase-11. *Nature Communications*, **2018**, 9, 242 | 17.4 | 82 |
| 304 | Aminoarabinose is essential for lipopolysaccharide export and intrinsic antimicrobial peptide resistance in Burkholderia cenocepacia(). *Molecular Microbiology*, **2012**, 85, 962-74 | 4.1 | 79 |
| 303 | Chemical basis of peptidoglycan discrimination by PrkC, a key kinase involved in bacterial resuscitation from dormancy. *Journal of the American Chemical Society*, **2011**, 133, 20676-9 | 16.4 | 79 |
| 302 | Structural analysis and characterization of dextran produced by wild and mutant strains of Leuconostoc mesenteroides. *Carbohydrate Polymers*, **2014**, 99, 331-8 | 10.3 | 76 |
| 301 | Ammonium hydroxide hydrolysis: a valuable support in the MALDI-TOF mass spectrometry analysis of Lipid A fatty acid distribution. *Journal of Lipid Research*, **2002**, 43, 2188-95 | 6.3 | 73 |
| 300 | Intracellular Shigella remodels its LPS to dampen the innate immune recognition and evade inflammasome activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E4345-54 | 11.5 | 71 |
| 299 | Lignans from Arum italicum. *Phytochemistry*, **1994**, 35, 777-779 | 4 | 70 |
| 298 | Microbe-associated molecular pattern (MAMP) signatures, synergy, size and charge: influences on perception or mobility and host defence responses. *Molecular Plant Pathology*, **2009**, 10, 375-87 | 5.7 | 68 |
| 297 | Covalently linked hopanoid-lipid A improves outer-membrane resistance of a Bradyrhizobium symbiont of legumes. *Nature Communications*, **2014**, 5, 5106 | 17.4 | 67 |
| 296 | Muramylpeptide shedding modulates cell sensing of Shigella flexneri. *Cellular Microbiology*, **2008**, 10, 682-95 | 3.9 | 65 |
| 295 | Chemical and biological features of Burkholderia cepacia complex lipopolysaccharides. *Innate Immunity*, **2008**, 14, 127-44 | 2.7 | 65 |
| 294 | Glial fibrillary acidic protein as an early marker of hepatic stellate cell activation in chronic and posttransplant recurrent hepatitis C. *Liver Transplantation*, **2008**, 14, 806-14 | 4.5 | 65 |
| 293 | The complete structure and pro-inflammatory activity of the lipooligosaccharide of the highly epidemic and virulent gram-negative bacterium Burkholderia cenocepacia ET-12 (strain J2315). *Chemistry - A European Journal*, **2007**, 13, 3501-11 | 4.8 | 60 |
| 292 | New conditions for matrix-assisted laser desorption/ionization mass spectrometry of native bacterial R-type lipopolysaccharides. *Rapid Communications in Mass Spectrometry*, **2005**, 19, 1829-34 | 2.2 | 59 |
| 291 | Lipopolysaccharide from Crypt-Specific Core Microbiota Modulates the Colonic Epithelial Proliferation-to-Differentiation Balance. *MBio*, **2017**, 8, | 7.8 | 57 |

| | | | |
|---|---|---|---|
| 290 | Lipopolysaccharide structures from Agrobacterium and Rhizobiaceae species. *Carbohydrate Research*, **2008**, 343, 1924-33 | 2.9 | 55 |
| 289 | Complete structural characterization of the lipid A fraction of a clinical strain of B. cepacia genomovar I lipopolysaccharide. *Glycobiology*, **2005**, 15, 561-70 | 5.8 | 53 |
| 288 | Lipopolysaccharide structures of Gram-negative populations in the gut microbiota and effects on host interactions. *FEMS Microbiology Reviews*, **2019**, 43, 257-272 | 15.1 | 51 |
| 287 | Biosynthesis and structure of the Burkholderia cenocepacia K56-2 lipopolysaccharide core oligosaccharide: truncation of the core oligosaccharide leads to increased binding and sensitivity to polymyxin B. *Journal of Biological Chemistry*, **2009**, 284, 21738-51 | 5.4 | 50 |
| 286 | Lactobacillus crispatus L1: high cell density cultivation and exopolysaccharide structure characterization to highlight potentially beneficial effects against vaginal pathogens. *BMC Microbiology*, **2014**, 14, 137 | 4.5 | 49 |
| 285 | The acylation and phosphorylation pattern of lipid A from Xanthomonas campestris strongly influence its ability to trigger the innate immune response in Arabidopsis. *ChemBioChem*, **2008**, 9, 896-904 | 3.8 | 49 |
| 284 | "Rules of Engagement" of Protein-Glycoconjugate Interactions: A Molecular View Achievable by using NMR Spectroscopy and Molecular Modeling. *ChemistryOpen*, **2016**, 5, 274-96 | 2.3 | 49 |
| 283 | The polysaccharide and low molecular weight components of Opuntia ficus indica cladodes: Structure and skin repairing properties. *Carbohydrate Polymers*, **2017**, 157, 128-136 | 10.3 | 45 |
| 282 | Specific hopanoid classes differentially affect free-living and symbiotic states of Bradyrhizobium diazoefficiens. *MBio*, **2015**, 6, e01251-15 | 7.8 | 44 |
| 281 | X-ray structural studies of the entire extracellular region of the serine/threonine kinase PrkC from Staphylococcus aureus. *Biochemical Journal*, **2011**, 435, 33-41 | 3.8 | 44 |
| 280 | Molecular structure of endotoxins from Gram-negative marine bacteria: an update. *Marine Drugs*, **2007**, 5, 85-112 | 6 | 44 |
| 279 | Identification of the flagellin glycosylation system in Burkholderia cenocepacia and the contribution of glycosylated flagellin to evasion of human innate immune responses. *Journal of Biological Chemistry*, **2014**, 289, 19231-44 | 5.4 | 43 |
| 278 | Chemical and biological properties of the novel exopolysaccharide produced by a probiotic strain of Bifidobacterium longum. *Carbohydrate Polymers*, **2017**, 174, 1172-1180 | 10.3 | 43 |
| 277 | Determination of fatty acid positions in native lipid A by positive and negative electrospray ionization mass spectrometry. *Journal of Mass Spectrometry*, **2004**, 39, 378-83 | 2.2 | 43 |
| 276 | Distinct carbohydrate and lipid-based molecular patterns within lipopolysaccharides from Burkholderia cepacia contribute to defense-associated differential gene expression in Arabidopsis thaliana. *Innate Immunity*, **2012**, 18, 140-54 | 2.7 | 42 |
| 275 | Patatin-like phospholipase domain containing 3 sequence variant and hepatocellular carcinoma. *Hepatology*, **2011**, 53, 1776; author reply 1777 | 11.2 | 42 |
| 274 | Structure of N-linked oligosaccharides attached to chlorovirus PBCV-1 major capsid protein reveals unusual class of complex N-glycans. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13956-60 | 11.5 | 41 |
| 273 | OsCERK1 plays a crucial role in the lipopolysaccharide-induced immune response of rice. *New Phytologist*, **2018**, 217, 1042-1049 | 9.8 | 41 |

| | | | |
|---|---|---|---|
| 272 | Reflectron MALDI TOF and MALDI TOF/TOF mass spectrometry reveal novel structural details of native lipooligosaccharides. *Journal of Mass Spectrometry*, **2011**, 46, 1135-42 | 2.2 | 40 |
| 271 | An unusual galactofuranose lipopolysaccharide that ensures the intracellular survival of toxin-producing bacteria in their fungal host. *Angewandte Chemie - International Edition*, **2010**, 49, 7476-80 | 16.4 | 40 |
| 270 | Structural elucidation of the O-chain of the lipopolysaccharide from Xanthomonas campestris strain 8004. *Carbohydrate Research*, **2003**, 338, 277-81 | 2.9 | 40 |
| 269 | Chemical Synthesis of a Complex-Type N-Glycan Containing a Core Fucose. *Journal of Organic Chemistry*, **2016**, 81, 10600-10616 | 4.2 | 39 |
| 268 | Separation of early and late responses to herbivory in Arabidopsis by changing plasmodesmal function. *Plant Journal*, **2013**, 73, 14-25 | 6.9 | 39 |
| 267 | Cytotoxic 9,10-Dihydrophenanthrenes from Juncus effusus L.. *Tetrahedron*, **1993**, 49, 3425-3432 | 2.4 | 38 |
| 266 | The antibacterial toxin colicin N binds to the inner core of lipopolysaccharide and close to its translocator protein. *Molecular Microbiology*, **2014**, 92, 440-52 | 4.1 | 37 |
| 265 | Activation of Human Toll-like Receptor 4 (TLR4)□Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of Burkholderia cenocepacia. *Journal of Biological Chemistry*, **2015**, 290, 21305-19 | 5.4 | 36 |
| 264 | Novel ACE2-Independent Carbohydrate-Binding of SARS-CoV-2 Spike Protein to Host Lectins and Lung Microbiota | | 36 |
| 263 | Microbial Imidazole Propionate Affects Responses to Metformin through p38□Dependent Inhibitory AMPK Phosphorylation. *Cell Metabolism*, **2020**, 32, 643-653.e4 | 24.6 | 36 |
| 262 | PNPLA3 I148M (rs738409) genetic variant and age at onset of at-risk alcohol consumption are independent risk factors for alcoholic cirrhosis. *Liver International*, **2014**, 34, 514-20 | 7.9 | 35 |
| 261 | The Pleurotus ostreatus hydrophobin Vmh2 and its interaction with glucans. *Glycobiology*, **2010**, 20, 594-602 | 3.8 | 35 |
| 260 | Chemical structure of two phytotoxic exopolysaccharides produced by Phomopsis foeniculi. *Carbohydrate Research*, **1998**, 308, 349-57 | 2.9 | 35 |
| 259 | Caryose: a carbocyclic monosaccharide from Pseudomonas caryophylli. *Carbohydrate Research*, **1996**, 284, 111-118 | 2.9 | 35 |
| 258 | The diversity of the core oligosaccharide in lipopolysaccharides. *Sub-Cellular Biochemistry*, **2010**, 53, 69-99 | 3.5 | 34 |
| 257 | Lipopolysaccharides possessing two L-glycero-D-manno-heptopyranosyl-alpha -(1-->5)-3-deoxy-D-manno-oct-2-ulopyranosonic acid moieties in the core region. The structure of the core region of the lipopolysaccharides from Burkholderia caryophylli. *Journal of Biological Chemistry*, **2002**, 277, 10058-63 | 5.4 | 33 |
| 256 | Insect Gut Symbiont Susceptibility to Host Antimicrobial Peptides Caused by Alteration of the Bacterial Cell Envelope. *Journal of Biological Chemistry*, **2015**, 290, 21042-21053 | 5.4 | 32 |
| 255 | Conformational analysis of a dermatan sulfate-derived tetrasaccharide by NMR, molecular modeling, and residual dipolar couplings. *ChemBioChem*, **2008**, 9, 240-52 | 3.8 | 31 |

| | | | |
|---|---|---|---|
| 254 | The structures of glycolipids isolated from the highly thermophilic bacterium Thermus thermophilus Samu-SA1. *Glycobiology*, **2006**, 16, 766-75 | 5.8 | 31 |
| 253 | Phytotoxic extracellular polysaccharide fractions from Cryphonectria parasitica (Murr.) Barr strains. *Carbohydrate Polymers*, **1998**, 37, 167-172 | 10.3 | 30 |
| 252 | Phenalene metabolites from eichhornia crassipes. *Bioorganic and Medicinal Chemistry Letters*, **1992**, 2, 311-314 | 2.9 | 30 |
| 251 | Cancer Immunotherapy of TLR4 Agonist-Antigen Constructs Enhanced with Pathogen-Mimicking Magnetite Nanoparticles and Checkpoint Blockade of PD-L1. *Small*, **2019**, 15, e1803993 | 11 | 30 |
| 250 | Weak Agonistic LPS Restores Intestinal Immune Homeostasis. *Molecular Therapy*, **2019**, 27, 1974-1991 | 11.7 | 29 |
| 249 | Structural Relationship of the Lipid A Acyl Groups to Activation of Murine Toll-Like Receptor 4 by Lipopolysaccharides from Pathogenic Strains of Burkholderia mallei, Acinetobacter baumannii, and Pseudomonas aeruginosa. *Frontiers in Immunology*, **2015**, 6, 595 | 8.4 | 29 |
| 248 | Synthesis of bradyrhizose, a unique inositol-fused monosaccharide relevant to a Nod-factor independent nitrogen fixation. *Chemical Communications*, **2015**, 51, 6964-7 | 5.8 | 29 |
| 247 | Deciphering the structural and biological properties of the lipid A moiety of lipopolysaccharides from Burkholderia cepacia strain ASP B 2D, in Arabidopsis thaliana. *Glycobiology*, **2011**, 21, 184-94 | 5.8 | 29 |
| 246 | The structure and proinflammatory activity of the lipopolysaccharide from Burkholderia multivorans and the differences between clonal strains colonizing pre and posttransplanted lungs. *Glycobiology*, **2008**, 18, 871-81 | 5.8 | 29 |
| 245 | Structure Elucidation of the Highly Heterogeneous Lipid A from the Lipopolysaccharide of the Gram-Negative Extremophile Bacterium Halomonas Magadiensis Strain 21 M1. *European Journal of Organic Chemistry*, **2004**, 2004, 2263-2271 | 3.2 | 29 |
| 244 | Three biologically active phenylpropanoid glucosides fromMyriophyllum verticillatum. *Phytochemistry*, **1992**, 31, 109-111 | 4 | 29 |
| 243 | Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. *Nature Communications*, **2020**, 11, 5881 | 17.4 | 29 |
| 242 | Burkholderia cenocepacia lectin A binding to heptoses from the bacterial lipopolysaccharide. *Glycobiology*, **2012**, 22, 1387-98 | 5.8 | 28 |
| 241 | Identification, structure, and characterization of an exopolysaccharide produced by Histophilus somni during biofilm formation. *BMC Microbiology*, **2011**, 11, 186 | 4.5 | 28 |
| 240 | Characterization of liposomes formed by lipopolysaccharides from Burkholderia cenocepacia, Burkholderia multivorans and Agrobacterium tumefaciens: from the molecular structure to the aggregate architecture. *Physical Chemistry Chemical Physics*, **2010**, 12, 13574-85 | 3.6 | 28 |
| 239 | The structure of lipid A of the lipopolysaccharide from Burkholderia caryophylli with a 4-amino-4-deoxy-L-arabinopyranose 1-phosphate residue exclusively in glycosidic linkage. *Chemistry - A European Journal*, **2003**, 9, 1542-8 | 4.8 | 28 |
| 238 | Burkholderia pseudomallei Capsular Polysaccharide Recognition by a Monoclonal Antibody Reveals Key Details toward a Biodefense Vaccine and Diagnostics against Melioidosis. *ACS Chemical Biology*, **2015**, 10, 2295-302 | 4.9 | 27 |
| 237 | Comparative genomics and biological characterization of sequential Pseudomonas aeruginosa isolates from persistent airways infection. *BMC Genomics*, **2015**, 16, 1105 | 4.5 | 27 |

| | | | |
|---|---|---|---|
| 236 | Full structural characterization of the lipid A components from the Agrobacterium tumefaciens strain C58 lipopolysaccharide fraction. *Glycobiology*, **2004**, 14, 805-15 | 5.8 | 27 |
| 235 | Giant DNA virus mimivirus encodes pathway for biosynthesis of unusual sugar 4-amino-4,6-dideoxy-D-glucose (Viosamine). *Journal of Biological Chemistry*, **2012**, 287, 3009-18 | 5.4 | 26 |
| 234 | A novel lipid A from Halomonas magadiensis inhibits enteric LPS-induced human monocyte activation. *European Journal of Immunology*, **2006**, 36, 354-60 | 6.1 | 26 |
| 233 | Structural determination of the phytotoxic mannan exopolysaccharide from Pseudomonas syringae pv. ciccaronei. *Carbohydrate Research*, **2001**, 330, 271-7 | 2.9 | 26 |
| 232 | Chemical synthesis of glycans up to a 128-mer relevant to the O-antigen of Bacteroides vulgatus. *Nature Communications*, **2020**, 11, 4142 | 17.4 | 26 |
| 231 | N-Linked Glycans of Chloroviruses Sharing a Core Architecture without Precedent. *Angewandte Chemie - International Edition*, **2016**, 55, 654-8 | 16.4 | 26 |
| 230 | Detailed characterization of the lipid A fraction from the nonpathogen Acinetobacter radioresistens strain S13. *Journal of Lipid Research*, **2007**, 48, 1045-51 | 6.3 | 25 |
| 229 | Capsular Polysaccharide Interferes with Biofilm Formation by Serogroup A. *MBio*, **2017**, 8, | 7.8 | 24 |
| 228 | Full Structural Characterisation of the Lipooligosaccharide of a Burkholderia pyrrocinia Clinical Isolate. *European Journal of Organic Chemistry*, **2006**, 2006, 4874-4883 | 3.2 | 24 |
| 227 | A novel type of highly negatively charged lipooligosaccharide from Pseudomonas stutzeri OX1 possessing two 4,6-O-(1-carboxy)-ethylidene residues in the outer core region. *FEBS Journal*, **2004**, 271, 2691-704 | | 24 |
| 226 | A bioactive dihydrodibenzoxepin from Juncus effusus. *Phytochemistry*, **1993**, 34, 1182-1184 | 4 | 24 |
| 225 | Lipopolysaccharides **2010**, 133-153 | | 24 |
| 224 | Insulin-Driven PI3K-AKT Signaling in the Hepatocyte Is Mediated by Redundant PI3K□and PI3K□ Activities and Is Promoted by RAS. *Cell Metabolism*, **2019**, 29, 1400-1409.e5 | 24.6 | 23 |
| 223 | Comparative genomics of early-diverging Brucella strains reveals a novel lipopolysaccharide biosynthesis pathway. *MBio*, **2012**, 3, e00246-11 | 7.8 | 23 |
| 222 | Comparative genomics of early-diverging Brucella strains reveals a novel lipopolysaccharide biosynthesis pathway. *MBio*, **2012**, 3, e00246-12 | 7.8 | 23 |
| 221 | Pairing LPS Structure with Its Immunomodulatory Effects on Human Cellular Models. *ACS Central Science*, **2020**, 6, 1602-1616 | 16.8 | 23 |
| 220 | The structure of the lipooligosaccharide from Xanthomonas oryzae pv. Oryzae: the causal agent of the bacterial leaf blight in rice. *Carbohydrate Research*, **2016**, 427, 38-43 | 2.9 | 23 |
| 219 | Host-microbiota interaction induces bi-phasic inflammation and glucose intolerance in mice. *Molecular Metabolism*, **2017**, 6, 1371-1380 | 8.8 | 22 |

| | | | |
|---|---|---|---|
| 218 | Bifidobacterium bifidum presents on the cell surface a complex mixture of glucans and galactans with different immunological properties. *Carbohydrate Polymers*, **2019**, 218, 269-278 | 10.3 | 22 |
| 217 | The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. *Angewandte Chemie - International Edition*, **2019**, 58, 18697-18702 | 16.4 | 22 |
| 216 | Interaction of lipopolysaccharides at intermolecular sites of the periplasmic Lpt transport assembly. *Scientific Reports*, **2017**, 7, 9715 | 4.9 | 22 |
| 215 | Neutrophil elastase-mediated increase in airway temperature during inflammation. *Journal of Cystic Fibrosis*, **2014**, 13, 623-31 | 4.1 | 21 |
| 214 | NMR spectroscopic analysis reveals extensive binding interactions of complex xyloglucan oligosaccharides with the Cellvibrio japonicus glycoside hydrolase family 31 α-xylosidase. *Chemistry - A European Journal*, **2012**, 18, 13395-404 | 4.8 | 21 |
| 213 | The Structures of Lipopolysaccharides from Plant-Associated Gram-Negative Bacteria. *European Journal of Organic Chemistry*, **2009**, 2009, 5887-5896 | 3.2 | 21 |
| 212 | Persistent cystic fibrosis isolate Pseudomonas aeruginosa strain RP73 exhibits an under-acylated LPS structure responsible of its low inflammatory activity. *Molecular Immunology*, **2015**, 63, 166-75 | 4.3 | 20 |
| 211 | A unique bicyclic monosaccharide from the Bradyrhizobium lipopolysaccharide and its role in the molecular interaction with plants. *Angewandte Chemie - International Edition*, **2011**, 50, 12610-2 | 16.4 | 20 |
| 210 | The complete structure of the lipooligosaccharide from the halophilic bacterium Pseudoalteromonas issachenkonii KMM 3549T. *Carbohydrate Research*, **2004**, 339, 1985-93 | 2.9 | 20 |
| 209 | (20S)-4α-methyl-24-methylenecholest-7-en-3β-ol, an allelopathic sterol from Typha latifolia?. *Phytochemistry*, **1990**, 29, 1797-1798 | 4 | 20 |
| 208 | The Lipid A from Rhodopseudomonas palustris Strain BisA53 LPS Possesses a Unique Structure and Low Immunostimulant Properties. *Chemistry - A European Journal*, **2017**, 23, 3637-3647 | 4.8 | 19 |
| 207 | Review article: can bugs be drugs? The potential of probiotics and prebiotics as treatment for non-alcoholic fatty liver disease. *Alimentary Pharmacology and Therapeutics*, **2019**, 50, 628-639 | 6.1 | 19 |
| 206 | Improvement of nutritional status in malnourished cirrhotic patients one year after liver transplantation. *European E-journal of Clinical Nutrition and Metabolism*, **2011**, 6, e142-e147 | | 19 |
| 205 | Structural characterizations of lipids A by MS/MS of doubly charged ions on a hybrid linear ion trap/orbitrap mass spectrometer. *Journal of Mass Spectrometry*, **2008**, 43, 478-84 | 2.2 | 19 |
| 204 | Structural characterization of the carbohydrate backbone of the lipooligosaccharide of the marine bacterium Arenibacter certesii strain KMM 3941(T). *Carbohydrate Research*, **2005**, 340, 2540-9 | 2.9 | 19 |
| 203 | Complete Structural Elucidation of a Novel Lipooligosaccharide from the Outer Membrane of the Marine Bacterium Shewanella pacifica. *European Journal of Organic Chemistry*, **2005**, 2005, 2281-2291 | 3.2 | 19 |
| 202 | Synthesis of Bradyrhizose Oligosaccharides Relevant to the Bradyrhizobium O-Antigen. *Angewandte Chemie - International Edition*, **2017**, 56, 2092-2096 | 16.4 | 18 |
| 201 | Gram-Negative Extremophile Lipopolysaccharides: Promising Source of Inspiration for a New Generation of Endotoxin Antagonists. *European Journal of Organic Chemistry*, **2017**, 2017, 4055-4073 | 3.2 | 18 |

| | | | |
|---|---|---|---|
| 200 | Continuous degradation of maltose: improvement in stability and catalytic properties of maltase (β-glucosidase) through immobilization using agar-agar gel as a support. *Bioprocess and Biosystems Engineering*, **2015**, 38, 631-8 | 3.7 | 18 |
| 199 | Structural study and conformational behavior of the two different lipopolysaccharide O-antigens produced by the cystic fibrosis pathogen Burkholderia multivorans. *Chemistry - A European Journal*, **2009**, 15, 7156-66 | 4.8 | 18 |
| 198 | Full structural characterization of Shigella flexneri M90T serotype 5 wild-type R-LPS and its delta galU mutant: glycine residue location in the inner core of the lipopolysaccharide. *Glycobiology*, **2008** , 18, 260-9 | 5.8 | 18 |
| 197 | Structure of the chlorovirus PBCV-1 major capsid glycoprotein determined by combining crystallographic and carbohydrate molecular modeling approaches. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E44-E52 | 11.5 | 17 |
| 196 | Chemistry and biology of the potent endotoxin from a Burkholderia dolosa clinical isolate from a cystic fibrosis patient. *ChemBioChem*, **2013**, 14, 1105-15 | 3.8 | 17 |
| 195 | Mesoscopic and microstructural characterization of liposomes formed by the lipooligosaccharide from Salmonella minnesota strain 595 (Re mutant). *Physical Chemistry Chemical Physics*, **2009**, 11, 2314-22 | 3.6 | 17 |
| 194 | Structural elucidation of the core-lipid A backbone from the lipopolysaccharide of Acinetobacter radioresistens S13, an organic solvent tolerant Gram-negative bacterium. *Carbohydrate Research*, **2006**, 341, 582-90 | 2.9 | 17 |
| 193 | NMR and MS evidences for a random assembled O-specific chain structure in the LPS of the bacterium Xanthomonas campestris pv. Vitians. A case of unsystematic biosynthetic polymerization. *FEBS Journal*, **2002**, 269, 4185-93 | | 17 |
| 192 | The lipopolysaccharide core oligosaccharide of plays a critical role in maintaining a proper gut symbiosis with the bean bug. *Journal of Biological Chemistry*, **2017**, 292, 19226-19237 | 5.4 | 16 |
| 191 | A general protein glycosylation machinery conserved in species improves bacterial fitness and elicits glycan immunogenicity in humans. *Journal of Biological Chemistry*, **2019**, 294, 13248-13268 | 5.4 | 16 |
| 190 | The O-specific polysaccharide structure and gene cluster of serotype O:12 of the Yersinia pseudotuberculosis complex, and the identification of a novel L-quinovose biosynthesis gene. *Glycobiology*, **2013**, 23, 346-53 | 5.8 | 16 |
| 189 | Transcriptional responses of Burkholderia cenocepacia to polymyxin B in isogenic strains with diverse polymyxin B resistance phenotypes. *BMC Genomics*, **2011**, 12, 472 | 4.5 | 16 |
| 188 | Characterization of the specific O-polysaccharide structure and biosynthetic gene cluster of Yersinia pseudotuberculosis serotype O:15. *Innate Immunity*, **2009**, 15, 351-9 | 2.7 | 16 |
| 187 | The O-specific polysaccharide structure and biosynthetic gene cluster of Yersinia pseudotuberculosis serotype O:11. *Carbohydrate Research*, **2009**, 344, 1533-40 | 2.9 | 16 |
| 186 | Acetyl Substitution of the O-Specific Caryan from the Lipopolysaccharide of Pseudomonas (Burkholderia) caryophylli Leads to a Block Pattern. *Angewandte Chemie - International Edition*, **2000**, 39, 156-160 | 16.4 | 16 |
| 185 | Thermophiles as potential source of novel endotoxin antagonists: the full structure and bioactivity of the lipo-oligosaccharide from Thermomonas hydrothermalis. *ChemBioChem*, **2014**, 15, 2146-55 | 3.8 | 15 |
| 184 | First structural characterization of Burkholderia vietnamiensis lipooligosaccharide from cystic fibrosis-associated lung transplantation strains. *Glycobiology*, **2009**, 19, 1214-23 | 5.8 | 15 |
| 183 | The O-specific polysaccharide structure from the lipopolysaccharide of the Gram-negative bacterium Raoultella terrigena. *Carbohydrate Research*, **2007**, 342, 1514-8 | 2.9 | 15 |

| | | | |
|---|---|---|---|
| 182 | The O-chain structure from the LPS of the endophytic bacterium Burkholderia cepacia strain ASP B 2D. *Carbohydrate Research*, **2006**, 341, 2954-8 | 2.9 | 15 |
| 181 | Structural Analysis of the Deep Rough Lipopolysaccharide from Gram Negative Bacterium Alteromonas macleodii ATCC 27126T: The First Finding of Kdo in the Inner Core of Lipopolysaccharides. *European Journal of Organic Chemistry*, **2006**, 2006, 4710-4716 | 3.2 | 15 |
| 180 | Structural Determination of the O-Specific Chain of the Lipopolysaccharide Fraction from the Alkaliphilic Bacterium Halomonas magadii Strain 21 MI. *European Journal of Organic Chemistry*, **2003**, 2003, 1029-1034 | 3.2 | 15 |
| 179 | Structure and inflammatory activity of the LPS isolated from Acetobacter pasteurianus CIP103108. *International Journal of Biological Macromolecules*, **2018**, 119, 1027-1035 | 7.9 | 14 |
| 178 | Different sugar residues of the lipopolysaccharide outer core are required for early interactions of Salmonella enterica serovars Typhi and Typhimurium with epithelial cells. *Microbial Pathogenesis*, **2011**, 50, 70-80 | 3.8 | 14 |
| 177 | The lipid A of Burkholderia multivorans C1576 smooth-type lipopolysaccharide and its pro-inflammatory activity in a cystic fibrosis airways model. *Innate Immunity*, **2010**, 16, 354-65 | 2.7 | 14 |
| 176 | Synthesis of a GlcN-(1->4)-MurNAc building block en route to N-deacetylated peptidoglycan fragments. *Tetrahedron Letters*, **2010**, 51, 1117-1120 | 2 | 14 |
| 175 | The structure of the phosphorylated carbohydrate backbone of the lipopolysaccharide of the phytopathogen bacterium Pseudomonas tolaasii. *Carbohydrate Research*, **2004**, 339, 2241-8 | 2.9 | 14 |
| 174 | Structural determination of lipid A of the lipopolysaccharide from Pseudomonas reactans. A pathogen of cultivated mushrooms. *FEBS Journal*, **2002**, 269, 2498-505 | | 14 |
| 173 | O-Specific chain structure from the lipopolysaccharide fraction of Pseudomonas reactans: a pathogen of the cultivated mushrooms. *Carbohydrate Research*, **2002**, 337, 467-71 | 2.9 | 14 |
| 172 | Structural elucidation of a novel core oligosaccharide backbone of the lipopolysaccharide from the new bacterial species Agrobacterium larrymoorei. *Carbohydrate Research*, **2003**, 338, 2721-30 | 2.9 | 14 |
| 171 | The O-chain structure from the LPS of marine halophilic bacterium Pseudoalteromonas carrageenovora-type strain IAM 12662T. *Carbohydrate Research*, **2005**, 340, 2693-7 | 2.9 | 14 |
| 170 | Structure elucidation of the O-chain from the major lipopolysaccharide of the Xanthomonas campestris strain 642. *Carbohydrate Research*, **2000**, 325, 222-9 | 2.9 | 14 |
| 169 | Hydroperoxysterols in Arum italicum. *Natural Product Research*, **1994**, 5, 7-14 | | 14 |
| 168 | Enzymatic and acidic degradation of high molecular weight dextran into low molecular weight and its characterizations using novel Diffusion-ordered NMR spectroscopy. *International Journal of Biological Macromolecules*, **2017**, 103, 744-750 | 7.9 | 13 |
| 167 | Giant virus Megavirus chilensis encodes the biosynthetic pathway for uncommon acetamido sugars. *Journal of Biological Chemistry*, **2014**, 289, 24428-39 | 5.4 | 13 |
| 166 | Full Structural Characterization of an Extracellular Polysaccharide Produced by the Freshwater Cyanobacterium Oscillatoria planktothrix FP1. *European Journal of Organic Chemistry*, **2010**, 2010, 5594-5600 | 3.2 | 13 |
| 165 | An Unusual Galactofuranose Lipopolysaccharide That Ensures the Intracellular Survival of Toxin-Producing Bacteria in Their Fungal Host. *Angewandte Chemie*, **2010**, 122, 7638-7642 | 3.6 | 13 |

| | | | |
|---|---|---|---|
| 164 | Acylglycosyl sterols from Pistia stratiotes. *Phytochemistry*, **1991**, 30, 2422-2424 | 4 | 13 |
| 163 | Unveiling Molecular Recognition of Sialoglycans by Human Siglec-10. *IScience*, **2020**, 23, 101231 | 6.1 | 13 |
| 162 | Lipopolysaccharide from Gut-Associated Lymphoid-Tissue-Resident Alcaligenes faecalis: Complete Structure Determination and Chemical Synthesis of Its Lipid A. *Angewandte Chemie - International Edition*, **2021**, 60, 10023-10031 | 16.4 | 13 |
| 161 | A Journey from Structure to Function of Bacterial Lipopolysaccharides. *Chemical Reviews*, **2021**, | 68.1 | 13 |
| 160 | Chapter 3:Lipopolysaccharides as Microbe-associated Molecular Patterns: A Structural Perspective. *RSC Drug Discovery Series*, **2015**, 38-63 | 0.6 | 12 |
| 159 | Zymomonas mobilis exopolysaccharide structure and role in high ethanol tolerance. *Carbohydrate Polymers*, **2018**, 201, 293-299 | 10.3 | 12 |
| 158 | Structure, genetics and function of an exopolysaccharide produced by a bacterium living within fungal hyphae. *ChemBioChem*, **2015**, 16, 387-92 | 3.8 | 12 |
| 157 | Plasma fatty acid lipidome is associated with cirrhosis prognosis and graft damage in liver transplantation. *American Journal of Clinical Nutrition*, **2014**, 100, 600-8 | 7 | 12 |
| 156 | The genetics and structure of the O-specific polysaccharide of Yersinia pseudotuberculosis serotype O:10 and its relationship with Escherichia coli O111 and Salmonella enterica O35. *Glycobiology*, **2011**, 21, 1131-9 | 5.8 | 12 |
| 155 | Genetic characterisation and structural analysis of the O-specific polysaccharide of Yersinia pseudotuberculosis serotype O:1c. *Innate Immunity*, **2011**, 17, 183-90 | 2.7 | 12 |
| 154 | Bacterial lipopolysaccharides in plant and mammalian innate immunity. *Protein and Peptide Letters*, **2012**, 19, 1040-4 | 1.9 | 12 |
| 153 | The Outer Membrane of the Marine Gram-Negative Bacterium Alteromonas addita is Composed of a Very Short-Chain Lipopolysaccharide with a High Negative Charge Density. *European Journal of Organic Chemistry*, **2007**, 2007, 1113-1122 | 3.2 | 12 |
| 152 | Structural elucidation of the capsular polysaccharide isolated from Kaistella flava. *Carbohydrate Research*, **2008**, 343, 2401-5 | 2.9 | 12 |
| 151 | Structural determination of the O-chain polysaccharide from Agrobacterium tumefaciens, strain DSM 30205. *FEBS Journal*, **2002**, 269, 2885-8 | | 12 |
| 150 | The structure of the O-polysaccharide from Pseudomonas stutzeri OX1 containing two different 4-acylamido-4,6-dideoxy-residues, tomosamine and perosamine. *Carbohydrate Research*, **2005**, 340, 651-6 | 2.9 | 12 |
| 149 | The complete structure of the core carbohydrate backbone from the LPS of marine halophilic bacterium Pseudoalteromonas carrageenovora type strain IAM 12662T. *Carbohydrate Research*, **2005**, 340, 1475-82 | 2.9 | 12 |
| 148 | Solvent effect on the isomeric equilibrium of carbohydrates: the superior ability of 2,2,2-trifluoroethanol for intramolecular hydrogen bond stabilization. *Journal of the American Chemical Society*, **2001**, 123, 12605-10 | 16.4 | 12 |
| 147 | Two New Lignan Glucosides from Arum italicum. *Heterocycles*, **1993**, 36, 2081 | 0.8 | 12 |

| | | | |
|---|---|---|---|
| 146 | Characterisation of the Dynamic Interactions between Complex N-Glycans and Human CD22. *ChemBioChem*, **2020**, 21, 129-140 | 3.8 | 12 |
| 145 | Structural features and immunological perception of the cell surface glycans of Lactobacillus plantarum: a novel rhamnose-rich polysaccharide and teichoic acids. *Carbohydrate Polymers*, **2020**, 233, 115857 | 10.3 | 11 |
| 144 | The Deep-Sea Polyextremophile Halobacteroides lacunaris TB21 Rough-Type LPS: Structure and Inhibitory Activity towards Toxic LPS. *Marine Drugs*, **2017**, 15, | 6 | 11 |
| 143 | Convergent Synthesis of a Bisecting N-Acetylglucosamine (GlcNAc)-Containing N-Glycan. *Chemistry - an Asian Journal*, **2018**, 13, 1544-1551 | 4.5 | 11 |
| 142 | The structural elucidation of the Salmonella enterica subsp. enterica, reveals that it contains both O-factors 4 and 5 on the LPS antigen. *Carbohydrate Research*, **2013**, 370, 9-12 | 2.9 | 11 |
| 141 | Why Doesn‚ Primary Biliary Cholangitis Respond to Immunosuppressive Medications?. *Current Hepatology Reports*, **2017**, 16, 119-123 | 1 | 11 |
| 140 | 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. *Frontiers in Microbiology*, **2017**, 8, 1821 | 5.7 | 11 |
| 139 | Structural characterization of two lipopolysaccharide O-antigens produced by the endofungal bacterium Burkholderia sp. HKI-402 (B4). *Carbohydrate Research*, **2012**, 347, 95-8 | 2.9 | 11 |
| 138 | Lipid A Structure **2011**, 1-20 | | 11 |
| 137 | The structure of the O-specific polysaccharide from the lipopolysaccharide of Burkholderia anthina. *Carbohydrate Research*, **2009**, 344, 1697-700 | 2.9 | 11 |
| 136 | The biofilm matrix of Pseudomonas sp. OX1 grown on phenol is mainly constituted by alginate oligosaccharides. *Carbohydrate Research*, **2006**, 341, 2456-61 | 2.9 | 11 |
| 135 | Structural Analysis of a Novel Polysaccharide of the Lipopolysaccharide-Deficient Extremophile Gram-Negative Bacterium Thermus thermophilus HB8. *European Journal of Organic Chemistry*, **2004** , 2004, 5047-5054 | 3.2 | 11 |
| 134 | Determination of the Structure of the Lipid A Fraction from the Lipopolysaccharide of Pseudomonas Cichorii by Means of NMR and MALDI-TOF Mass Spectrometry. *European Journal of Organic Chemistry*, **2002**, 2002, 3119-3125 | 3.2 | 11 |
| 133 | The O-specific chain structure of the major component from the lipopolysaccharide fraction of Halomonas magadii strain 21 MI (NCIMB 13595). *Carbohydrate Research*, **2003**, 338, 567-70 | 2.9 | 11 |
| 132 | Structural determination of the O-specific chain of the lipopolysaccharide from the mushrooms pathogenic bacterium Pseudomonas tolaasii. *Carbohydrate Research*, **2003**, 338, 1251-7 | 2.9 | 11 |
| 131 | Immunostimulant (1 --> 3)-D-glucans from the cell wall of Cryphonectria parasitica (Murr.) Barr strain 263. *Carbohydrate Research*, **2000**, 329, 441-5 | 2.9 | 11 |
| 130 | Isolation and characterisation of the lipopolysaccharide from Xanthomonas hortorum pv. vitians. *FEMS Microbiology Letters*, **1999**, 181, 49-53 | 2.9 | 11 |
| 129 | Structural basis for Glycan-receptor binding by mumps virus hemagglutinin-neuraminidase. *Scientific Reports*, **2020**, 10, 1589 | 4.9 | 11 |

| | | | |
|---|---|---|---|
| 128 | Adaptive defence-related changes in the metabolome of Sorghum bicolor cells in response to lipopolysaccharides of the pathogen Burkholderia andropogonis. *Scientific Reports*, **2020**, 10, 7626 | 4.9 | 10 |
| 127 | D-Lactic acidosis 25 years after bariatric surgery due to Salmonella enteritidis. *Nutrition*, **2012**, 28, 108-11 | 4.8 | 10 |
| 126 | Structural and conformational study of the O-polysaccharide produced by the metabolically versatile photosynthetic bacterium Rhodopseudomonas palustris strain BisA53. *Carbohydrate Polymers*, **2014**, 114, 384-391 | 10.3 | 10 |
| 125 | Against the rules: a marine bacterium, Loktanella rosea, possesses a unique lipopolysaccharide. *Glycobiology*, **2010**, 20, 586-93 | 5.8 | 10 |
| 124 | Recipient interleukin-28B Rs12979860 C/T polymorphism and acute cellular rejection after liver transplantation: role of the calcineurin inhibitor used. *Transplantation*, **2012**, 93, 1038-44 | 1.8 | 10 |
| 123 | The structure of the carbohydrate backbone of the lipooligosaccharide from the halophilic bacterium Arcobacter halophilus. *Carbohydrate Research*, **2010**, 345, 850-3 | 2.9 | 10 |
| 122 | Core oligosaccharide structure from the highly phytopathogenic Agrobacterium tumefaciens TT111 and conformational analysis of the putative rhamnan epitope. *Glycobiology*, **2006**, 16, 1272-80 | 5.8 | 10 |
| 121 | Structural Determination of the O-Specific Chain of the Lipopolysaccharide from Pseudomonas cichorii. *European Journal of Organic Chemistry*, **2002**, 2002, 1770-1775 | 3.2 | 10 |
| 120 | The linkage between O-specific caryan and core region in the lipopolysaccharide of Burkholderia caryophylli is furnished by a primer monosaccharide. *Carbohydrate Research*, **2005**, 340, 1802-7 | 2.9 | 10 |
| 119 | Acetyl substitution of the O-specific polysaccharide caryophyllan from the phenol phase of Pseudomonas (Burkholderia) caryophylli. *Carbohydrate Research*, **2001**, 335, 205-11 | 2.9 | 10 |
| 118 | Carbohydrate-based adjuvants. *Drug Discovery Today: Technologies*, **2020**, 35-36, 57-68 | 7.1 | 10 |
| 117 | Structural identification of the O-antigen fraction from the lipopolysaccharide of the Burkholderia ambifaria strain 19182. *Carbohydrate Research*, **2013**, 379, 95-9 | 2.9 | 9 |
| 116 | A Comprehensive Study of the Interaction between Peptidoglycan Fragments and the Extracellular Domain of Mycobacterium tuberculosis Ser/Thr Kinase PknB. *ChemBioChem*, **2017**, 18, 2094-2098 | 3.8 | 9 |
| 115 | Structure of the Lipopolysaccharide from the sp. ORS285 Mutant Strain. *ChemistryOpen*, **2017**, 6, 541-553 | 3.3 | 9 |
| 114 | Structure of O-Antigen and Hybrid Biosynthetic Locus in Clonal Variants Recovered from a Cystic Fibrosis Patient. *Frontiers in Microbiology*, **2017**, 8, 1027 | 5.7 | 9 |
| 113 | Vibrio vulnificus MO6-24/O lipopolysaccharide stimulates superoxide anion, thromboxane B matrix metalloproteinase-9, cytokine and chemokine release by rat brain microglia in vitro. *Marine Drugs*, **2014**, 12, 1732-56 | 6 | 9 |
| 112 | Differential vascular endothelial growth factor A protein expression between small hepatocellular carcinoma and cirrhosis correlates with serum vascular endothelial growth factor A and alpha-fetoprotein. *Liver International*, **2009**, 29, 103-12 | 7.9 | 9 |
| 111 | Absolute configuration of 8-Amino-3,8-dideoxyoct-2-ulosonic acid, the chemical hallmark of lipopolysaccharides of the genus Shewanella. *Journal of Natural Products*, **2007**, 70, 1624-7 | 4.9 | 9 |

| | | | |
|---|---|---|---|
| 110 | The Structure of the O-Chain Polysaccharide from the Gram-Negative Endophytic Bacterium Burkholderia phytofirmans Strain PsJN. *European Journal of Organic Chemistry*, **2008**, 2008, 2303-2308 | 3.2 | 9 |
| 109 | The structure of the O-specific polysaccharide from the lipopolysaccharide of Pseudomonas sp. OX1 cultivated in the presence of the azo dye Orange II. *Carbohydrate Research*, **2008**, 343, 674-84 | 2.9 | 9 |
| 108 | The Structures of the Lipid A Moieties from the Lipopolysaccharides of Two Phytopathogenic Bacteria, Xanthomonas campestris pv. pruni and Xanthomonas fragariae. *European Journal of Organic Chemistry*, **2004**, 2004, 1336-1343 | 3.2 | 9 |
| 107 | Chiral induction based on carbohydrate ligands in olefin platinum(0) complexes. *Carbohydrate Research*, **2002**, 337, 651-6 | 2.9 | 9 |
| 106 | 9,10-Dihydrophenanthrene Glucosides from Juncus effusus. *Natural Product Research*, **1995**, 6, 111-117 | | 9 |
| 105 | Dimeric phenalene metabolites from Eichhornia crassipes. *Tetrahedron*, **1992**, 48, 3971-3976 | 2.4 | 9 |
| 104 | Investigation of protein-ligand complexes by ligand-based NMR methods. *Carbohydrate Research*, **2021**, 503, 108313 | 2.9 | 9 |
| 103 | Structural specificities of cell surface -glucan polysaccharides determine commensal yeast mediated immuno-modulatory activities. *Nature Communications*, **2021**, 12, 3611 | 17.4 | 9 |
| 102 | A Convergent Route to Enantiomers of the Bicyclic Monosaccharide Bradyrhizose Leads to Insight into the Bioactivity of an Immunologically Silent Lipopolysaccharide. *Journal of Organic Chemistry*, **2019**, 84, 14-41 | 4.2 | 9 |
| 101 | Solid State NMR Studies of Intact Lipopolysaccharide Endotoxin. *ACS Chemical Biology*, **2018**, 13, 2106-2113 | 4.9 | 9 |
| 100 | Xanthomonas citri pv. citri Pathotypes: LPS Structure and Function as Microbe-Associated Molecular Patterns. *ChemBioChem*, **2017**, 18, 772-781 | 3.8 | 8 |
| 99 | The -glycan structures of the antigenic variants of chlorovirus PBCV-1 major capsid protein help to identify the virus-encoded glycosyltransferases. *Journal of Biological Chemistry*, **2019**, 294, 5688-5699 | 5.4 | 8 |
| 98 | Structure of the unusual HH103 lipopolysaccharide and its role in symbiosis. *Journal of Biological Chemistry*, **2020**, 295, 10969-10987 | 5.4 | 8 |
| 97 | Innate immunity probed by lipopolysaccharides affinity strategy and proteomics. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 775-84 | 4.4 | 8 |
| 96 | Unraveling the interaction between the LPS O-antigen of Burkholderia anthina and the 5D8 monoclonal antibody by using a multidisciplinary chemical approach, with synthesis, NMR, and molecular modeling methods. *ChemBioChem*, **2013**, 14, 1485-93 | 3.8 | 8 |
| 95 | The structure of the carbohydrate backbone of the lipooligosaccharide from an alkaliphilic Halomonas sp. *Carbohydrate Research*, **2010**, 345, 1971-5 | 2.9 | 8 |
| 94 | Presence of glycosyl linkages in caryophyllan: the main polysaccharide from the Pseudomonas caryophylli LPS fraction. *Carbohydrate Research*, **1998**, 307, 167-172 | 2.9 | 8 |
| 93 | Transition metals and carbohydrates: the methyl-4,6-O-benzylidene-2,3-diazo-2,3-dideoxy-alpha-D-mannopyranoside skeleton as building block for new chiral nitrogen chelates. *Carbohydrate Research*, **2001**, 331, 209-12 | 2.9 | 8 |

| | | | |
|---|---|---|---|
| 92 | Role of a fluid-phase PRR in fighting an intracellular pathogen: PTX3 in Shigella infection. *PLoS Pathogens*, **2018**, 14, e1007469 | 7.6 | 8 |
| 91 | Gut microbiota depletion exacerbates cholestatic liver injury via loss of FXR signalling. *Nature Metabolism*, **2021**, 3, 1228-1241 | 14.6 | 8 |
| 90 | A two gene-based risk score predicts alcoholic cirrhosis development in males with at-risk alcohol consumption. *The Application of Clinical Genetics*, **2019**, 12, 1-10 | 3.1 | 7 |
| 89 | Hepatic expression of lipopolysaccharide-binding protein (Lbp) is induced by the gut microbiota through Myd88 and impairs glucose tolerance in mice independent of obesity. *Molecular Metabolism*, **2020**, 37, 100997 | 8.8 | 7 |
| 88 | Occurrence and structure of cyclic Enterobacterial Common Antigen in Escherichia coli O157:H?. *Carbohydrate Research*, **2012**, 363, 29-32 | 2.9 | 7 |
| 87 | Structural Study of the Lipopolysaccharide O-Antigen Produced by the Emerging Cystic Fibrosis Pathogen Pandoraea pulmonicola. *European Journal of Organic Chemistry*, **2012**, 2012, 2243-2249 | 3.2 | 7 |
| 86 | A Unique Bicyclic Monosaccharide from the Bradyrhizobium Lipopolysaccharide and Its Role in the Molecular Interaction with Plants. *Angewandte Chemie*, **2011**, 123, 12818-12820 | 3.6 | 7 |
| 85 | An antagonist of lipid A action in mammals has complex effects on lipid A induction of defence responses in the model plant Arabidopsis thaliana. *Microbes and Infection*, **2008**, 10, 571-4 | 9.3 | 7 |
| 84 | Structure of minor oligosaccharides from the lipopolysaccharide fraction from Pseudomonas stutzeri OX1. *Carbohydrate Research*, **2004**, 339, 2657-65 | 2.9 | 7 |
| 83 | O-specific polysaccharide structure of the aqueous lipopolysaccharide fraction from Xanthomonas campestris pv. vitians strain 1839. *Carbohydrate Research*, **2000**, 328, 435-9 | 2.9 | 7 |
| 82 | Analysis of Synthetic Monodisperse Polysaccharides by Wide Mass Range Ultrahigh-Resolution MALDI Mass Spectrometry. *Analytical Chemistry*, **2021**, 93, 4666-4675 | 7.8 | 7 |
| 81 | Donor Small-Droplet Macrovesicular Steatosis Affects Liver Transplant Outcome in HCV-Negative Recipients. *Canadian Journal of Gastroenterology and Hepatology*, **2019**, 2019, 5862985 | 2.8 | 6 |
| 80 | Synthesis of the tetrasaccharide outer core fragment of Burkholderia multivorans lipooligosaccharide. *Carbohydrate Research*, **2015**, 403, 182-91 | 2.9 | 6 |
| 79 | Structure of the lipopolysaccharide isolated from the novel species Uruburuella suis. *Carbohydrate Research*, **2012**, 357, 75-82 | 2.9 | 6 |
| 78 | Core region and lipid A components of lipopolysaccharides **2010**, 29-55 | | 6 |
| 77 | Lipopolysaccharide structure and biological activity from the cystic fibrosis pathogens Burkholderia cepacia complex. *Carbohydrate Chemistry*, **2012**, 13-39 | 3 | 6 |
| 76 | Structural Elucidation of a Novel B. cenocepacia ET-12 Lipooligosaccharide Isolated from a Cystic Fibrosis Patient after Lung Transplantation. *European Journal of Organic Chemistry*, **2010**, 2010, 1299-1306 | 3.2 | 6 |
| 75 | Structural Determination of a Novel O-Chain Polysaccharide of the Lipopolysaccharide from the Bacterium Xanthomonas campestris pv. pruni. *European Journal of Organic Chemistry*, **2003**, 2003, 2254-2259 | 3.2 | 6 |

| | | | |
|---|---|---|---|
| 74 | Chlorovirus PBCV-1 protein A064R has three of the transferase activities necessary to synthesize its capsid protein N-linked glycans. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 28735-28742 | 11.5 | 6 |
| 73 | Determination of the structure of the O-antigen and the lipid A from the entomopathogenic bacterium Pseudomonas entomophila lipopolysaccharide along with its immunological properties. *Carbohydrate Research*, **2015**, 412, 20-7 | 2.9 | 5 |
| 72 | Lipid A Structure and Immunoinhibitory Effect of the Marine Bacterium Cobetia pacifica KMM 3879T. *European Journal of Organic Chemistry*, **2018**, 2018, 2707-2716 | 3.2 | 5 |
| 71 | NMR analysis of the binding mode of two fungal endo-β1,4-mannanases from GH5 and GH26 families. *Organic and Biomolecular Chemistry*, **2016**, 14, 314-22 | 3.9 | 5 |
| 70 | Synthesis of Forsythenethoside A, a Neuroprotective Macrocyclic Phenylethanoid Glycoside, and NMR Analysis of Conformers. *Journal of Organic Chemistry*, **2019**, 84, 13733-13743 | 4.2 | 5 |
| 69 | Efficient synthesis of O-antigen fragments expressed by Burkholderia anthina by modular synthesis approach. *Carbohydrate Research*, **2015**, 404, 98-107 | 2.9 | 5 |
| 68 | Synthesis of Partially N-Acetylated Chitooligosaccharides and Muropeptides. *Synlett*, **2014**, 25, 365-370 | 2.2 | 5 |
| 67 | Elucidation of the structure of the oligosaccharide from wild type Moraxella bovis Epp63 lipooligosaccharide. *Carbohydrate Research*, **2014**, 388, 81-6 | 2.9 | 5 |
| 66 | A Novel Core Region, Lacking Heptose and Phosphate, of the Lipopolysaccharide from the Gram-Negative Bacterium Pseudomonas cichorii (Pseudomonadaceae RNA Group 1). *European Journal of Organic Chemistry*, **2004**, 2004, 2427-2435 | 3.2 | 5 |
| 65 | Structural Determination of the O-Specific Polysaccharide from the Xanthomonas fragariae Lipopolysaccharide Fraction. *European Journal of Organic Chemistry*, **2001**, 2001, 927-931 | 3.2 | 5 |
| 64 | Die Acetylierung des O-spezifischen Caryans des Lipopolysaccharids aus Pseudomonas (Burkholderia) caryophylli führt zu Blockmustern. *Angewandte Chemie*, **2000**, 112, 160-165 | 3.6 | 5 |
| 63 | Liquid-state NMR spectroscopy for complex carbohydrate structural analysis: A hitchhiker's guide. *Carbohydrate Polymers*, **2022**, 277, 118885 | 10.3 | 5 |
| 62 | Prevotella denticola Lipopolysaccharide from a Cystic Fibrosis Isolate Possesses a Unique Chemical Structure. *European Journal of Organic Chemistry*, **2016**, 2016, 1732-1738 | 3.2 | 5 |
| 61 | The 35-year odyssey of beta blockers in cirrhosis: any gender difference in sight?. *Pharmacological Research*, **2017**, 119, 20-26 | 10.2 | 4 |
| 60 | Synthesis of Bradyrhizose Oligosaccharides Relevant to the Bradyrhizobium O-Antigen. *Angewandte Chemie*, **2017**, 129, 2124-2128 | 3.6 | 4 |
| 59 | Biopolymer Skeleton Produced by Rhizobium radiobacter: Stoichiometric Alternation of Glycosidic and Amidic Bonds in the Lipopolysaccharide O-Antigen. *Angewandte Chemie - International Edition*, **2020**, 59, 6368-6374 | 16.4 | 4 |
| 58 | The Structure of the Lipid A from the Halophilic Bacterium Spiribacter salinus M19-40. *Marine Drugs* , **2018**, 16, | 6 | 4 |
| 57 | Matrix Production, Pigment Synthesis, and Sporulation in a Marine Isolated Strain of Bacillus pumilus. *Marine Drugs*, **2015**, 13, 6472-88 | 6 | 4 |

| | | | |
|---|---|---|---|
| 56 | Structural Study of Binding of Mannosides to Mannan-Binding Lectins. *European Journal of Organic Chemistry*, **2012**, 2012, 5275-5281 | 3.2 | 4 |
| 55 | The properties of chitosan complexes with smooth and rough forms of lipopolysaccharides on CHO-K1 cells. *Carbohydrate Polymers*, **2013**, 97, 284-92 | 10.3 | 4 |
| 54 | Structural analysis of a novel putative capsular polysaccharide from Pseudomonas (Burkholderia) caryophylli strain 2151. *FEBS Journal*, **1999**, 259, 887-91 | | 4 |
| 53 | Structural investigation of the lipopolysaccharide O-chain isolated from Burkholderia fungorum strain DSM 17061. *Carbohydrate Research*, **2016**, 433, 31-5 | 2.9 | 4 |
| 52 | N-Linked Glycans of Chloroviruses Sharing a Core Architecture without Precedent. *Angewandte Chemie*, **2016**, 128, 664-668 | 3.6 | 4 |
| 51 | Multivalent ligand mimetics of LecA from P. aeruginosa: synthesis and NMR studies. *Carbohydrate Research*, **2016**, 429, 23-8 | 2.9 | 4 |
| 50 | Lipopolysaccharide lipid A: A promising molecule for new immunity-based therapies and antibiotics. *Pharmacology & Therapeutics*, **2021**, 230, 107970 | 13.9 | 4 |
| 49 | Behavior of glycolylated sialoglycans in the binding pockets of murine and human CD22. *IScience*, **2021**, 24, 101998 | 6.1 | 4 |
| 48 | Liver-specific ROR deletion does not affect the metabolic susceptibility to western style diet feeding. *Molecular Metabolism*, **2019**, 23, 82-87 | 8.8 | 3 |
| 47 | Bacterial Lipopolysaccharides: An Overview of Their Structure, Biosynthesis and Immunological Activity **2015**, 57-89 | | 3 |
| 46 | Synthesis and biological evaluation of 5Pglycyl derivatives of uridine as inhibitors of 1,4- galactosyltransferase. *Bioorganic Chemistry*, **2015**, 58, 18-25 | 5.1 | 3 |
| 45 | Structural and Conformational Study of the O-Antigenic Portion of the Lipopolysaccharide Isolated from Burkholderia gladioli pv. cocovenenans. *European Journal of Organic Chemistry*, **2016**, 2016, 748-753 | 3.2 | 3 |
| 44 | Recipient perioperative cholesterolaemia and graft cholesterol metabolism gene expression predict liver transplant outcome. *Liver International*, **2014**, 34, e290-301 | 7.9 | 3 |
| 43 | Structure and Immunological Activity of the Lipopolysaccharide Isolated from the Species Alkalimonas delamerensis. *European Journal of Organic Chemistry*, **2013**, 2013, 2653-2665 | 3.2 | 3 |
| 42 | Rhizobium rubi(T): a gram-negative phytopathogenic bacterium expressing the Lewis B epitope on the outer core of its lipooligosaccharide fraction. *ChemBioChem*, **2008**, 9, 1830-5 | 3.8 | 3 |
| 41 | The structures of the cell wall teichoic acids from the thermophilic microorganism Geobacillus thermoleovorans strain Fango. *Carbohydrate Research*, **2006**, 341, 2613-8 | 2.9 | 3 |
| 40 | In vitro allelopathic properties of wild rocket (Diplotaxis tenuifolia DC) extract and of its potential allelochemical S-glucopyranosyl thiohydroximate. *Journal of Plant Interactions*, **2005**, 1, 51-60 | 3.8 | 3 |
| 39 | Molecular recognition of sialoglycans by streptococcal Siglec-like adhesins: toward the shape of specific inhibitors.. *RSC Chemical Biology*, **2021**, 2, 1618-1630 | 3 | 3 |

| | | | |
|---|---|---|---|
| 38 | Rational Vaccine Design in Times of Emerging Diseases: The Critical Choices of Immunological Correlates of Protection, Vaccine Antigen and Immunomodulation. *Pharmaceutics*, **2021**, 13, | 6.4 | 3 |
| 37 | Solving the structural puzzle of bacterial glycome. *Current Opinion in Structural Biology*, **2021**, 68, 74-83 | 8.1 | 3 |
| 36 | The LPS O-Antigen in Photosynthetic Bradyrhizobium Strains Is Dispensable for the Establishment of a Successful Symbiosis with Aeschynomene Legumes. *PLoS ONE*, **2016**, 11, e0148884 | 3.7 | 3 |
| 35 | Serotype O:8 isolates in the Yersinia pseudotuberculosis complex have different O-antigen gene clusters and produce various forms of rough LPS. *Innate Immunity*, **2016**, 22, 205-17 | 2.7 | 3 |
| 34 | Overexpression of Gene in Inhibits Cell Division and Causes Envelope Defects without Changing the Overall Phosphorylation Level of Lipid A. *Microorganisms*, **2020**, 8, | 4.9 | 2 |
| 33 | Biopolymer Skeleton Produced by Rhizobium radiobacter: Stoichiometric Alternation of Glycosidic and Amidic Bonds in the Lipopolysaccharide O-Antigen. *Angewandte Chemie*, **2020**, 132, 6430-6436 | 3.6 | 2 |
| 32 | Expression, purification, crystallization and preliminary X-ray crystallographic analysis of the peptidoglycan binding region of the Ser/Thr kinase PrkC from Staphylococcus aureus. *Protein and Peptide Letters*, **2010**, 17, 1296-9 | 1.9 | 2 |
| 31 | The Propensity of the Human Liver to Form Large Lipid Droplets Is Associated with PNPLA3 Polymorphism, Reduced INSIG1 and NPC1L1 Expression and Increased Fibrogenetic Capacity. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 2 |
| 30 | Structure of the O-Antigen and the Lipid A from the Lipopolysaccharide of Fusobacterium nucleatum ATCC 51191. *ChemBioChem*, **2021**, 22, 1252-1260 | 3.8 | 2 |
| 29 | Covalently bonded hopanoid-Lipid A from Bradyrhizobium: The role of unusual molecular structure and calcium ions in regulating the lipid bilayers organization. *Journal of Colloid and Interface Science* , **2021**, 594, 891-901 | 9.3 | 2 |
| 28 | Bile acid metabolism and FXR-mediated effects in human cholestatic liver disorders.. *Biochemical Society Transactions*, **2022**, | 5.1 | 2 |
| 27 | Novosphingobium sp. PP1Y as a novel source of outer membrane vesicles. *Journal of Microbiology*, **2019**, 57, 498-508 | 3 | 1 |
| 26 | Chapter 2:NMR as a Tool to Unveil the Molecular Basis of Glycan-mediated Host–Pathogen Interactions. *RSC Drug Discovery Series*, **2015**, 21-37 | 0.6 | 1 |
| 25 | Modification biological activity of S and R forms of Proteus mirabilis and Burkholderia cepacia lipopolysaccharides by carrageenans. *Carbohydrate Polymers*, **2016**, 149, 408-14 | 10.3 | 1 |
| 24 | Rhodopseudomonas palustris Strain CGA009 Produces an O-Antigen Built up by a C-4-Branched Monosaccharide: Structural and Conformational Studies. *Organic Letters*, **2018**, 20, 3656-3660 | 6.2 | 1 |
| 23 | The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. *Angewandte Chemie*, **2019**, 131, 18870-18875 | 3.6 | 1 |
| 22 | Microbial glycosylated components in plant disease **2010**, 803-820 | | 1 |
| 21 | Lipopolysaccharides from three phytopathogenic pseudomonads. *Phytochemistry*, **1997**, 46, 289-92 | 4 | 1 |

| | | | |
|---|---|---|---|
| 20 | The O-chain structure from the LPS of the bacterium Naxibacter alkalitolerans YIM 31775T. *Carbohydrate Research*, **2007**, 342, 757-61 | 2.9 | 1 |
| 19 | Applicability of the Mosher MPTA-Ester Methodology to Monosaccharides. *Journal of Carbohydrate Chemistry*, **1998**, 17, 987-992 | 1.7 | 1 |
| 18 | Lipopolysaccharide O-antigen molecular and supramolecular modifications of plant root microbiota are pivotal for host recognition. *Carbohydrate Polymers*, **2022**, 277, 118839 | 10.3 | 1 |
| 17 | Propranolol-induced hallucinations mimicking encephalopathy in a patient with liver cirrhosis. *Scandinavian Journal of Gastroenterology*, **2021**, 56, 829-831 | 2.4 | 1 |
| 16 | The Lipid A Structure from the Marine Sponge Symbiont Endozoicomonas sp. HEX 311. *ChemBioChem*, **2019**, 20, 230-236 | 3.8 | 1 |
| 15 | A chronic strain of the cystic fibrosis pathogen Pandoraea pulmonicola expresses a heterogenous hypo-acylated lipid A. *Glycoconjugate Journal*, **2021**, 38, 135-144 | 3 | 1 |
| 14 | Glycans in Bacterial Infections: Gram-Negative Infections in the Respiratory Tract **2021**, 233-249 | | 1 |
| 13 | Biophysical Approaches to Solve the Structures of the Complex Glycan Shield of Chloroviruses. *Advances in Experimental Medicine and Biology*, **2018**, 1104, 237-257 | 3.6 | 1 |
| 12 | Expanding the Occurrence of Polysaccharides to the Viral World: The Case of Mimivirus. *Angewandte Chemie - International Edition*, **2021**, 60, 19897-19904 | 16.4 | 1 |
| 11 | Chemical Synthesis of Sialyl N-Glycans and Analysis of Their Recognition by Neuraminidase. *Angewandte Chemie - International Edition*, **2021**, 60, 24686-24693 | 16.4 | 1 |
| 10 | Chemistry of Lipid A: At the Heart of Innate Immunity. *Chemistry - A European Journal*, **2015**, 21, 477-477 | 4.8 | 0 |
| 9 | Cyclic enterobacterial common antigens from Escherichia coli O157 as microbe-associated molecular patterns. *Canadian Journal of Microbiology*, **2014**, 60, 173-6 | 3.2 | 0 |
| 8 | Structural characterisation of the oligosaccharide from Moraxella bovoculi type strain 237 (ATCC BAA-1259) lipooligosaccharide. *Carbohydrate Research*, **2021**, 503, 108293 | 2.9 | 0 |
| 7 | Expanding the Occurrence of Polysaccharides to the Viral World: The Case of Mimivirus. *Angewandte Chemie*, **2021**, 133, 20050-20057 | 3.6 | 0 |
| 6 | Molecular Modeling Study of the Carbohydrate Region of the Endotoxin from Burkholderia cenocepacia ET-12. *European Journal of Organic Chemistry*, **2011**, 2011, 5114-5122 | 3.2 | |
| 5 | Structure and Conformation Study of the O-Antigen from the Lipopolysaccharide of Cupriavidus Metallidurans CH34. *Polysaccharides*, **2022**, 3, 188-199 | 3 | |
| 4 | Characterization of Natural and Synthetic Sialoglycans Targeting the Hemagglutinin-Neuraminidase of Mumps Virus. *Frontiers in Chemistry*, **2021**, 9, 711346 | 5 | |
| 3 | Lipopolysaccharide from Gut-Associated Lymphoid-Tissue-Resident Alcaligenes faecalis: Complete Structure Determination and Chemical Synthesis of Its Lipid A. *Angewandte Chemie*, **2021**, 133, 10111-10119 | 3.6 | |

| | | |
|---|---|---|
| 2 | The Peculiar Structure of Acetobacter pasteurianus CIP103108 LPS Core Oligosaccharide. *ChemBioChem*, **2021**, 22, 147-150 | 3.8 |
| 1 | Chemical Synthesis of Sialyl N-Glycans and Analysis of Their Recognition by Neuraminidase. *Angewandte Chemie*, **2021**, 133, 24891 | 3.6 |