

List of publications from our group

68. *Clostridium difficile* carbohydrates: glucan in spores, PSI and PSII in cells, immunogenicity of PSII in swine and synthesis of a dual *C. difficile*-ETEC conjugate vaccine. Lisa Bertolo, Alexander G. Boncheff, Zuchao Ma, Yu-Han Chen, Terra Wakeford, Robert M. Friendship, Joyce Rosseau, J. Scott Weese, Michele Chu, Michael Mallozzi, Gayatri Vedantam, Mario A. Monteiro. *Carbohydr. Res.* (2012) in press.
67. Review: *Campylobacter* Polysaccharide Capsules: Virulence and Vaccines. P. Guerry, F. Poly, M. Riddle, A. C. Maue, Y.-H. Chen and M. A. Monteiro. *Front. Cell. Inf. Microbio.* (2012) 2:7. doi: 10.3389/fcimb.2012.00007.
66. Book Chapter: *Helicobacter pylori* cell surface structural features: role in gastric colonization, pathogenesis, and carbohydrate-based vaccines. J. A. Ferreira, L. Silva, M. A. Monteiro, M. A. Coimbra. *Carbohydrate Chemistry*, Editor: Pilar Rauter (2011) Volume 37; ISBN: 978-1-84973-154-6
65. Studies of the genetics, function and kinetic mechanism of TagE - the wall teichoic acid glycosyltransferase in *Bacillus subtilis* 168. Allison S.E., D'Elia M.A., Arar S., Monteiro M.A., Brown E.D. *J. Biol. Chem.* 286 (2011) 23708-23716.
64. Synthesis and immunogenicity of a *Helicobacter pylori* lipopolysaccharide-based conjugate. Mario A. Monteiro, Stacey Britton, Lisa A. Applebee, Shahida Baqar. *Vaccine* 29 (2011) 3098-3102.
63. The lipopolysaccharide core of *Actinobacillus suis* and its relationship to those of *Actinobacillus pleuropneumoniae*. Jeyabarathy Ganeshapillai, Alexander G. Boncheff, Durda Slavic, Janet MacInnes and Mario A. Monteiro. *Biochem. Cell. Bio.* 89 (2011) 351-358.
62. Aldobiouronic acid domains in *Helicobacter pylori*. J. A. Ferreira, M. R. M. Domingues, A. Reis, C. Figueiredo, M. A. Monteiro, and M. A. Coimbra. *Carbohydr. Res.* 346 (2011) 638-648.
61. The Detection of Ruthenium Chloride Clusters by Laser Desorption Ionization-Mass Spectrometry of $\text{RuCl}_3 \cdot 3\text{H}_2\text{O}$. A. G. Boncheff and M. A. Monteiro. *Can. J. Chem.* 89 (2011) 511-516.
60. Discovery and characterization of a fructosylated capsule polysaccharide and sialylated lipopolysaccharide in a virulent strain of *Actinobacillus suis*. R. Deutschmann, A. G. Boncheff, J. I. MacInnes, and M. A. Monteiro. *Biochem. Cell. Bio.* 89 (2011) 325-331.
59. TEMPO-mediated glycoconjugation: a scheme for the controlled synthesis of polysaccharide conjugates. Z. Ma, L. Bertolo, S. Arar, and M. A. Monteiro. *Carbohydr. Res.* 346 (2011) 343-347.
58. Common sialylated glycan in *Actinobacillus suis*. R. Deutschmann, A. G. Boncheff, L. Doraban, J. I. MacInnes and M. A. Monteiro. *Glycobiology* 20 (2010) 1227-1232.
57. Identification of cell-surface mannans in a virulent *Helicobacter pylori* strain. J.A. Ferreira, N. F. Azevedo, M. J. Vieira, C. Figueiredo, B. J. Goodfellow, M. A. Monteiro, M. A. Coimbra. *Carbohydr. Res.* 345 (2010) 830-838.
56. Differentiation of isomeric Lewis blood groups by positive ion electrospray tandem mass spectrometry. J. A. Ferreira, R. Domingues, A. Reis, M.A. Monteiro, M.A. Coimbra. *Anal. Biochem.* 397 (2010) 186-196.

55. Identification of (1→6)-β-D-glucan as the major carbohydrate component of the *Malassezia sympodialis* cell wall. Michael D. Kruppa, Douglas W. Lowman, Yu-Han Chen, Christine Selander, Annika Scheynius, Mario A. Monteiro and David L. Williams. *Carbohydr. Res.* 344 (2009) 2474-2479.
54. Bioaccumulation of amylose-like glycans by *Helicobacter pylori*. José A. Ferreira, Cristiana Pires, Marina Paulo, Nuno F. Azevedo, M. Rosário Domingues, Maria João Vieira, Mario A. Monteiro, Manuel A. Coimbra. *Helicobacter* 14 (2009) 559-570.
53. The *Candida albicans* histidine kinase Chk1p: signaling and cell wall mannan. Dongmei Li, David Williams, Douglas Lowman, Mario A. Monteiro, Xuan Tan, Michael Kruppa, William Fonzi, Elvira Roman, and Richard Calderone. *Fungal Genet. Biol.* 46 (2009) 731-741.
52. *Gerald O. Aspinall*.
Robin Ferrier and Mario A. Monteiro. *Adv. Carbohydr. Chem. Biochem.* 62 (2009) 2-10.
51. A capsule polysaccharide conjugate vaccine against diarrheal disease caused by *Campylobacter jejuni*. Mario A. Monteiro, Shahida Baqar, Eric R. Hall, Yu-Han Chen, Chad K. Porter, David E. Bentzel, Lisa Applebee, and Patricia Guerry. *Infect. Immun.* 77 (2009) 1128-1136.
This publication was *Spotlighted*.
50. Characterization of two *Campylobacter jejuni* strains for use in volunteer experimental infection studies. Frédéric Poly, Timothy D. Read, Yu-Han Chen, Mario A. Monteiro, Oralak Serichantalergs, Piyarat Pootong, Ladaporn Bodhidatta, Carl J. Mason, Shahida Baqar, David Rockabrand, David Tribble, Michael Darsley, and Patricia Guerry. *Infect. Immun.* 76 (2008) 5655-5667.
49. Hydrolysis of bacterial wall carbohydrates in the microwave using trifluoroacetic acid. Jianqiang Zhao and Mario A. Monteiro. *Carbohydr. Res.* 343 (2008) 2498-2503.
48. The chemical structure and genetic locus of *Campylobacter jejuni* CG8486 (serotype HS:4) capsular polysaccharide: The identification of 6-deoxy-D-ido-heptopyranose. Yu-Han Chen, Frédéric Poly, Zbigniew Pakulski, Patricia Guerry, and Mario A. Monteiro. *Carbohydr. Res.* 343 (2008) 1034-1040
47. Differential high affinity interaction of Dectin-1 with natural or synthetic glucans is dependent upon primary structure and is influenced by polymer chain length and side chain branching. Elizabeth L. Adams, Peter J. Rice, Bridget Graves, Harry E. Ensley, Hai Yu, Gordon D. Brown, Siamon Gordon, Mario A. Monteiro, Erzsebet Papp-Szabo, Douglas W. Lowman, Trevor D. Power, Michael F. Wempe, David L. Williams. *J. Pharmacol. Exp. Ther.* 325 (2008) 115-123.
46. A polysaccharide of *Alloicoccus otitidis*, a new pathogen of otitis media: chemical structure and synthesis of a neoglycoconjugate thereof. Sharif Arar, Evgenii Vinogradov, P. Lynn Shewmaker and Mario A. Monteiro. *Carbohydr. Res.* 343 (2008) 1079-1090
45. *Clostridium difficile* cell-surface polysaccharides composed of pentaglycosyl or hexaglycosyl phosphate repeating units. Jeyabarathy Ganeshapillai, Evgenii Vinogradov, Joyce Rousseau, J. Scott Weese and Mario A. Monteiro. *Carbohydr. Res.* 343 (2008) 703-710.
44. Genetic Analysis of Lipo-oligosaccharide Core Biosynthesis in *Campylobacter jejuni* 81-176. Margaret I. Kanipes, Xuan Tan, Aurel Akelaitis, Jiajun Li, David Rockabrand, Patricia Guerry and Mario A. Monteiro. *J. Bacteriol.* 190 (2008) 1568-1574.

43. Desialylation of core type 1 O-glycan in the equine embryonic capsule coincides with immobilization of the conceptus in the uterus. Sharif Arar, Kenneth H. Chan, Bette A. Quinn, Rudolf O. Waelchli, M. Anthony Hayes, Keith J. Betteridge and Mario A. Monteiro. *Carbohydr. Res.* 342 (2007) 1110-1115.
42. The Distribution of Two Major Iridoids in Different Organs of *Antirrhinum majus* L. at Selected Stages of Development. Clifford W. Beninger, Renée R. Cloutier, Mario A. Monteiro and Bernard Grodzinski. *J. Chem. Ecol.* 33 (2007) 731-747.
41. Mutation of heptosyltransferase in *Campylobacter jejuni* affects the structure of both lipooligosaccharide and capsular carbohydrate. Margaret I. Kanipes, Erzsebet Papp-Szabo, Patricia Guerry and Mario A. Monteiro. *J. Bacteriol.* 188 (2006) 3273-3279.
40. The structural basis for the serospecificity of *Actinobacillus suis* serogroup O:2. Anthony Rullo, Erzsebet Papp-Szabo, Frank St. Michael, Janet MacInnes and Mario A. Monteiro. *Biochem. Cell Biol.* 84 (2006) 184-190.
39. Cell-surface alpha-glucan in *Campylobacter jejuni* 81-176. Erzsébet Papp-Szabó, Margaret I. Kanipes, Patricia Guerry and Mario A. Monteiro. *Carbohydr. Res.* 340 (2005) 2218-2221.
38. A Novel *Helicobacter pylori* Cell-Surface Polysaccharide. Stacey Britton, Erzsebet Papp-Szabo, Joanna Simala-Grant, Lisa Morrison, Diane E. Taylor and Mario A. Monteiro. *Carbohydr. Res.* 340 (2005) 1605-1611.