

Publication list for Marité Cárdenas Gómez, ResearcherID O-4669-2014

Referee reviewed research articles:

1. A Laurentin, M Cárdenas, J Ruales, E Pérez, J Tovar. Indigestible pyrodextrin production from different starch sources. *J. Agric. Food Chem.* 2003, **51**, 5510-5515.
2. M Cárdenas, K Schillén, T Nylander, J Jansson, B Lindman, DNA Compaction by Cationic Surfactant in Solution and at Polystyrene Particle Solution Interfaces: A Dynamic Light Scattering Study. *Phys. Chem. Chem. Phys.*, 2004, **6**, 1603-1607.
3. M Cárdenas, J Campos-Terán, T Nylander, B Lindman, DNA and Cationic Surfactant Complexes at Hydrophilic Surfaces. An Ellipsometry and Surface Force Study. *Langmuir.* 2004, **20**, 8597-8603.
4. M Cárdenas, K Schillén, D Pebalk, T Nylander, B Lindman, Interactions between DNA and charged colloids could be hydrophobically driven. *Biomacromolecules*, 2005, **6**, 832-837.
5. M Cárdenas, CA Dreiss, T Nylander, CP Chan, T Cosgrove, B Lindman, SANS Study of the Interaction among DNA, a Cationic Surfactant, and Polystyrene Latex Particles. *Langmuir*, 2005, **21**, 3478-3483.
6. D McLoughlin, R Dias, B Lindman, M Cárdenas, T Nylander, K Dawson, M Miguel, D Langevin, Surface Complexation of DNA with Insoluble Monolayers. Influence of Divalent Counterions. *Langmuir.*, 2005, **21**, 1900-1907.
7. M Cárdenas, T Nylander, RK Thomas, Björn Lindman, DNA Compaction onto Hydrophobic Surfaces by Different Cationic Surfactants. *Langmuir*, 2005, **21**, 6495-6502.
8. M Cárdenas, B Jönsson, T Nylander, B Lindman, The interaction between DNA and Cationic Lipid Films at the Air-Water Interface. *J. Colloids Interface Sci.*, 2005, **286**, 166-175.
9. M Cárdenas, J Barauskas, K Schillén, JL Brennan, M Brust, T Nylander, Thiol-Specific and Non-Specific Interactions Between DNA and Gold Nanoparticles. *Langmuir*, 2006, **22**, 3294-3299.
10. O Svensson, L Lindh, M Cárdenas, T Arnebrant, Layer by layer assembly of mucin and chitosan – Influence of surface properties, concentration and type of mucin. *J. Colloid Interface Sci.*, 2006, **299**, 608-616.
11. M Cárdenas, T Arnebrant, RK Thomas, G Fragneto, A Rennie, L Lindh, Human Saliva Forms a Complex Film Structure on Alumina Surfaces, *Biomacromolecules*, 2007, **8**, 65-69.
12. L Lindh, IE Svendsen, O Svensson, M Cárdenas, T Arnebrant, The Salivary Mucin MUC5B and Lactoperoxidase can be used for Layer-by-Layer Film Formation, *J Colloid Interface Sci*, **310**, 74-82.
13. M. Cárdenas, U. Elofsson, L. Lindh. The Salivary Mucin MUC5B Could be an Important Component of *in vitro* Pellicles of Human Saliva - An *in situ* Ellipsometry and AFM Study. *Biomacromolecules*, 2007, **8**, 1149-1156.
14. M. Cárdenas, J.J. Valle-Delgado, J. Hamit, M.W. Rutland, T. Arnebrant, Interactions of hydroxyapatite surfaces: conditioning films of human whole saliva. *Langmuir*, 2008, **8**, 7262-7268.
15. M Cárdenas, K Schillen, V Alfredsson, R-D. Duang, L Nyberg, T Arnebrant. Solubilization of Sphingomyelin Vesicles by Addition of a Bile Salt. *Chemistry and Physics of Lipids*, 2008, **151**, 10-17.
16. A Åkesson, K Moss Bendtsen, MA Beherens, J Skov Pedersen, V Alfredsson, M Cárdenas Gómez. The effect of PAMAM G6 dendrimers on the structure of lipid vesicles, *Phys. Chem. Chem. Phys.*, 2010, **12**, 12267-12272.

17. M. Cárdenas, H. Wacklin, R. Campbell, T. Nylander. The structure of DNA and surfactant films at hydrophilic and hydrophobic surfaces by Neutron Reflection. *Langmuir*, 2011, **27**, 12506-12514.
18. M. Wadsäter, J. Simonsen, T. Lauridsen, E. Tveten, P. Naur, T. Bjørnholm, H. Wacklin, K. Mortensen, L. Arleth, R. Feidenhans'l, M. Cárdenas. Aligning Nanodiscs at the Air-Water Interface, a Neutron Reflectivity Study. *Langmuir*. 2011. **27**, 15065-15073.
- 19*. A. J. Svagan, A. Åkesson, M. Cárdenas, S. Bulut, J. Knudsen, J. Risbo, D. Plackett. Transparent films based on PLA and montmorillonite with tunable oxygen barrier properties. *Biomacromolecules*. 2012, **13**, 397-405.
20. A. Åkesson, T. Lind, N. Erlich, D. Stamou, H. Wacklin, M. Cárdenas. Structure and Composition of Supported Lipid Bilayers made of POPC and DPPC mixtures. *Soft Matter*, 2012, **8**, 5658-5665.
21. A. Åkesson, C. V. Lundgaard, N. Ehrlich, T. Günther-Pomorski, D. Stamou, M. Cárdenas. Induced Dye Leakage by PAMAM G6 Does Not Imply Dendrimer Entry into Vesicle Lumen. *Soft Matter*, 2012, **8**, 8972-8980.
22. A. Åkesson, T. Lind, R. Barker, A. Hughes, M. Cárdenas. Unraveling Dendrimer Translocation across Cell Membrane Mimics. *Langmuir*, 2012. **28**, 13025-13033.
- 23*. M. Wadsäter, T. Laursen, A. Singha, N. S. Hatzakis, D. Stamou, R. Barker, K. Mortensen, R. Feidenhans'l, B. Lindberg Møller, M. Cárdenas. Monitoring Shifts in the Conformation Equilibrium of the Membrane Protein Cytochrome P450 Reductase (POR) in Nanodiscs. *Journal of Biological Chemistry*. 2012, **287**, 34596-34603
24. A. Åkesson, M. Cárdenas, E. Giuliano, M. Monopoli, K. Dawson. The Protein Corona of Dendrimers: PAMAM Binds and Activates Complement Proteins in Human Plasma in a Generation Dependent Manner. *RSC Advances*. 2012,**2**, 11245-11248
25. M. Wadsäter, S. Maric, J.B. Simonsen, K. Mortensen, M. Cárdenas. The Effect of Using Binary Mixtures of Zwitterionic and Charged Lipids on the Nanodisc Formation and Stability. *Soft Matter*, 2013, **9**, 2329 – 2337
26. M. Wadsäter, R. Barker, K. Mortensen, R. Feidenhans'l, M. Cárdenas. The Effect of Phospholipid Composition and Phase on Nanodisc films at the Solid-Liquid Interface as studied by Neutron Reflectivity. *Langmuir*, 2013, **29**, 2871 – 2880.
27. F. Ruggeri, F. Zhang, T. Lind, B. Lau, E. Bruce, M. Cárdenas. Non-Specific Interactions between Soluble Proteins and Lipids Induce Irreversible Changes in the Properties of Lipid Bilayers. *Soft Matter*, 2013, **9**, 4219-4226.
- 28*. F. Ruggeri, A. Åkesson, P. Y. Chapuis, C. A. Skrzynski, M. Monopoli, K. Dawson, T. Günther-Pomorski and M. Cárdenas. Dendrimer Impact on Vesicles can be Tuned Based on the Lipid Bilayer Charge and the Presence of Albumin. *Soft Matter*, 2013, **9**, 8862-8870.
29. W. F. Hogendorf, V. Jagalski, T. Günther-Pomorski, M. Bols, M. Cárdenas, C.M. Pedersen. Synthesis and Physicochemical Characterization of Glycoglycerophospholipids by Differential Scanning Calorimetry and Confocal Scanning Fluorescence Microscopy. *Molecules*. 2013. **18**, 13546-13573.
30. T.K. Lind, P. Zielińska, H. Wacklin, Z. Urbanczyk-Lipkowska, and M. Cárdenas. Continuous flow AFM imaging reveals fluidity and time dependent interactions of antimicrobial dendrimer with model lipid membranes. *ACS Nano*. 2014, **8**, 396-408
- 31*. R.A. Campbell, E. Watkins, V. Jagalski, A. Åkesson-Runnsjo and M. Cárdenas. Key factors regulating the mass delivery of macromolecules to model cell membranes: gravity and electrostatics. *ACS Macro Letters* 2014, **3**, 121-125

32. D. Shiu, C. Schwall, G. Sfintes, E. Thyraug, P. Hammershoj, M. Cárdenas, J.B. Simonsen, B.W. Laursen. Counterions control whether self-assembly leads to formation of stable and well-defined unilamellar nanotubes or nanoribbons and nanorods. *Chem. Eur. J.* 2014, **20**, 6853-6856.
33. T.K Lind, M. Cárdenas, H.P. Wacklin. Formation of Supported Lipid Bilayers by Vesicle Fusion: Effect of Deposition Temperature. *Langmuir*, 2014, **30**, 7259-7263.
34. S. Mølgaard, M. Henrikson, M. Cárdenas, A. Svagan. Cellulose-nanofiber/polygalacturonic acid coatings with high oxygen barrier and targeted release properties. *Carbohydrate Polymers* 2014, **114**, 179-182.
35. S.J. Kapp, I. Larsson, M. van de Weert, M. Cárdenas, L Jorgensen. Competitive adsorption of monoclonal antibodies and nonionic surfactants at solid hydrophobic surfaces. *J Pharmaceutical Sciences*. 2014. DOI: 10.1002/jps.24265.
36. T.K Lind, P. Polcyn, P. Zielinska, M. Cárdenas, Z. Urbanczyk-Lipkowska. On the antimicrobial activity of various peptide-based dendrimers of similar architecture. *Molecules*. 2015, **20**, 738-753; doi:10.3390/molecules20010738

Referee reviewed conference contributions

37. M Cárdenas, A Braem, T Nylander, B Lindman, DNA Compaction at Hydrophobic Surfaces Induced by a Cationic Amphiphile. *Langmuir*, 2003, **19**, 7712-7719.

Reviews

38. B Lindman, M Cárdenas, T Nylander, DNA Compaction at Interfaces, an application of I colloid systems, *Anales de la Real Sociedad Española de Química*, 2004, **100**, 27-33.
39. M Cárdenas, T Nylander, B Lindman, DNA and Cationic Surfactants at Solid Surfaces. *Colloids and Surfaces A*, 2005, **270**, 33-43.
40. T Nylander, RA Campbell, P Vandoolaeghe, M Cárdenas, P Linse, A Rennie. Neutron reflectometry to investigate the delivery of lipids and DNA to interfaces, *Biointerphases* 2009, **3**, FB64.
- 41*. T. Günther-Pomorski, T. Nylander, M. Cárdenas. Model Cell Membranes: Discerning Lipid and Protein Contributions in Shaping the Cell. *Adv Colloid Interface Sci.* 2014. **205**, 207-220.

Contributions to books

1. M. Cárdenas and T Nylander, Chapter 11: DNA and DNA-Surfactants Complexes at Solid Surfaces. *In: DNA Interactions with Polymer and Surfactants*. R Dias and B Lindman. 2008 John Wiley & Sons, Inc. p 291-316

Three manuscripts are currently under preparation for publication.