Electronic Supplementary Information

Impact of Galactosylceramide on the nanomechanical properties lipid of bilayer models: AFM-force spectroscopy study

Berta Gumí-Audenis, Fausto Sanz and Marina I. Giannotti*

Institute for Bioengineering of Catalonia (IBEC). Baldiri Reixac 15-21, Barcelona, 08028, Spain
Physical Chemistry Department, Universitat de Barcelona, Barcelona, 08028, Spain
Networking Biomedical Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, 28029, Spain

^{*} Corresponding author: migiannotti@ub.edu

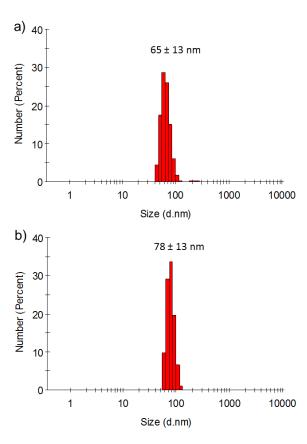


Figure S1. Number-weighted diameter distribution measured by DLS (Setasizer NanoS, Malvern Instruments) of: a) DLPC:GalCer (80:20 molar ratio) and b) DPPC:GalCer (80:20 molar ratio) vesicle suspensions, in 150 mM NaCl, 20 mM MgCl2, 20 mM Hepes (pH 7.4), obtained as described in the *Experimental section (Sample preparation. Liposome suspensions*).

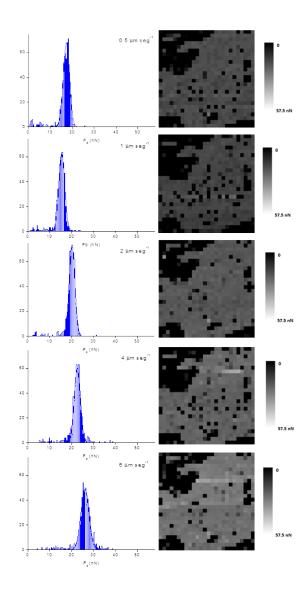


Figure S2. F_b distribution and map for AFM indentation on DPPC SLB (deposited on mica, in 150 mM NaCl, 20 mM MgCl2, 20 mM Hepes (pH 7.4)), obtained at different approaching velocities: 0.5, 1, 2, 4 and 6 μ m seg⁻¹.

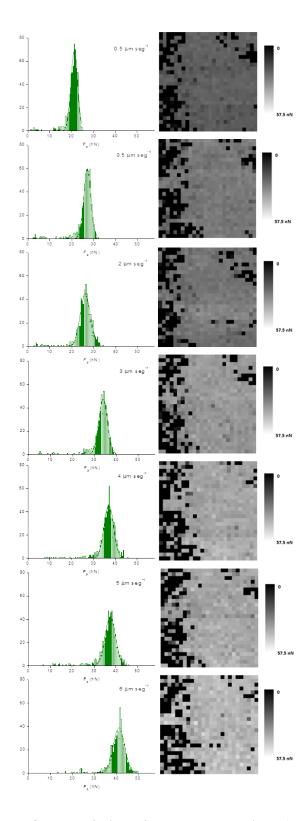


Figure S3. F_b distribution and map for AFM indentation on DPPC:GalCer (80:20) SLB (deposited on mica, in 150 mM NaCl, 20 mM MgCl2, 20 mM Hepes (pH 7.4)), obtained at different approaching velocities: 0.5, 1, 2, 4 and 6 μ m seg⁻¹.