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Áreas de interés científico:

Biofísica de membranas, esfingolípidos y esfingomielinasas, surfactantes, fusión de membranas, relaciones estructura-función en proteínas de membrana, proteómica de membranas, interacciones lípido-proteína.

Publicaciones:

1: Urbina P, Alonso A, Contreras FX, Goni FM, Lopez DJ, Montes LR, Sot J. Alkanes are not innocuous vehicles for hydrophobic reagents in membrane studies. *Chem Phys Lipids*. 2006 Feb;139(2):107-14. Epub 2005 Dec 12.

2: Sanchez-Magraner L, Cortajarena AL, Goni FM, Ostolaza H. Membrane insertion of escherichia coli alpha -haemolysin is independent from membrane lysis. *J Biol Chem*. 2005 Dec 22

3: Bonilla JB, Cid MB, Contreras FX, Goni FM, Martin-Lomas M. Phospholipase Cleavage of D- and L-chiro-Glycosylphosphoinositides Asymmetrically Incorporated into Liposomal Membranes. *Chemistry*. 2006 Feb 1;12(5):1513-1528.

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5: Ahyayauch H, Villar AV, Alonso A, Goni FM. Modulation of PI-specific phospholipase C by membrane curvature and molecular order. *Biochemistry*. 2005 Aug 30;44(34):11592-600

6: Lichtenberg D, Goni FM, Heerklotz H. Detergent-resistant membranes should not be identified with membrane rafts. *Trends Biochem Sci*. 2005 Aug;30(8):430-6.

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- 12: Jones DR, Paneda C, Villar AV, Alonso A, Goni FM, Butikofer P, Brodbeck U, Shepherd PR, Varela-Nieto I. Phosphorylation of glycosyl-phosphatidylinositol by phosphatidylinositol 3-kinase changes its properties as a substrate for phospholipases. *FEBS Lett.* 2005 Jan 3;579(1):59-65.
- 13: Williams RJ, Spencer JP, Goni FM, Rice-Evans CA. Zinc-histidine complex protects cultured cortical neurons against oxidative stress-induced damage. *Neurosci Lett.* 2004 Nov 23;371(2-3):106-10.
- 14: Contreras FX, Basanez G, Alonso A, Herrmann A, Goni FM. Asymmetric addition of ceramides but not dihydroceramides promotes transbilayer (flip-flop) lipid motion in membranes. *Biophys J.* 2005 Jan;88(1):348-59.
- 15: Ahyayauch H, Goni FM, Bennouna M. Interaction of electrically neutral and cationic forms of imipramine with liposome and erythrocyte membranes. *Int J Pharm.* 2004 Jul 26;279(1-2):51-8.
- 16: Iloro I, Chehin R, Goni FM, Pajares MA, Arrondo JL. Methionine adenosyltransferase alpha-helix structure unfolds at lower temperatures than beta-sheet: a 2D-IR study. *Biophys J.* 2004 Jun;86(6):3951-8.
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