SEMINARIO
DEPARTAMENTO DE QUÍMICA FÍSICA

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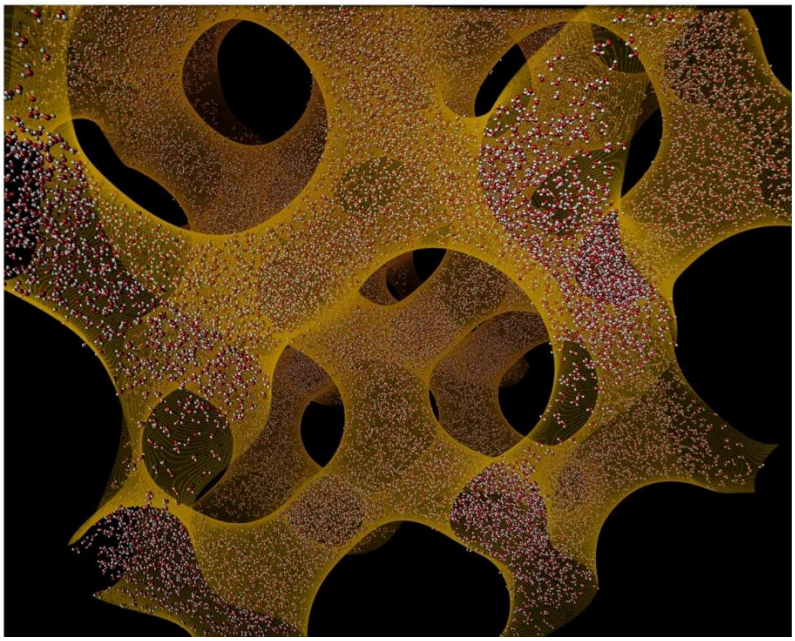
MOLECULAR TRANSPORT IN LIPID MESOPHASES: A CHALLENGE AT MULTIPLE SCALES



Lipid mesophases are aggregates formed by lipid-water mixtures in various contexts, appearing for instance in vivo during digestion and in various applications for drug delivery, protein crystallization and cryo-enzymatic reactions. These objects are characterized by peculiar topological and geometrical features at the nanoscale, which regulate the diffusion of molecules therein and have therefore a major impact on the applications based on mass transport. In this talk, I will illustrate our efforts to understand how the nanoscopic properties of lipid mesophases determine transport at the macroscopic scales relevant for the practical applications of these fascinating systems.