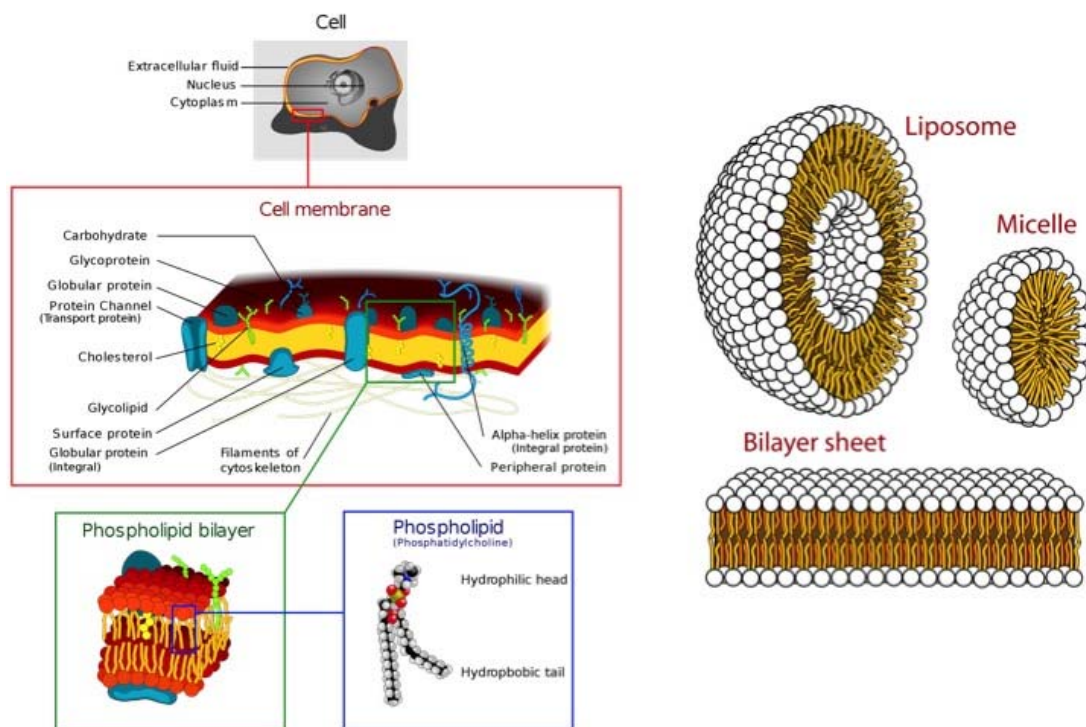


Cell membranes: Probing basic structures and mechanisms using lipid-water interfaces

Cell membranes consist of a lipid bilayer, separating the living cell from the exterior. This also serves many other functions, allowing controlled passage of ions and molecules in and out of the cell. Cell membranes are therefore quite complex, but different aspects of them can be studied using suitable model systems, for instance phospholipids forming liposomes micelles in water. There's strong interest for basic atomic-level studies of such "model cells", for instance in connection to the affinity of different ionic species to and transport through cell membranes, and the penetration of nano-particles into cells.



You would participate in the planning and carrying out of pilot measurements of these systems using synchrotron radiation, which will be done in collaboration with researchers from the BioMedical Center (BMC).

Interested? Contact Olle Björneholm (olle.bjorneholm@fysik.uu.se)!