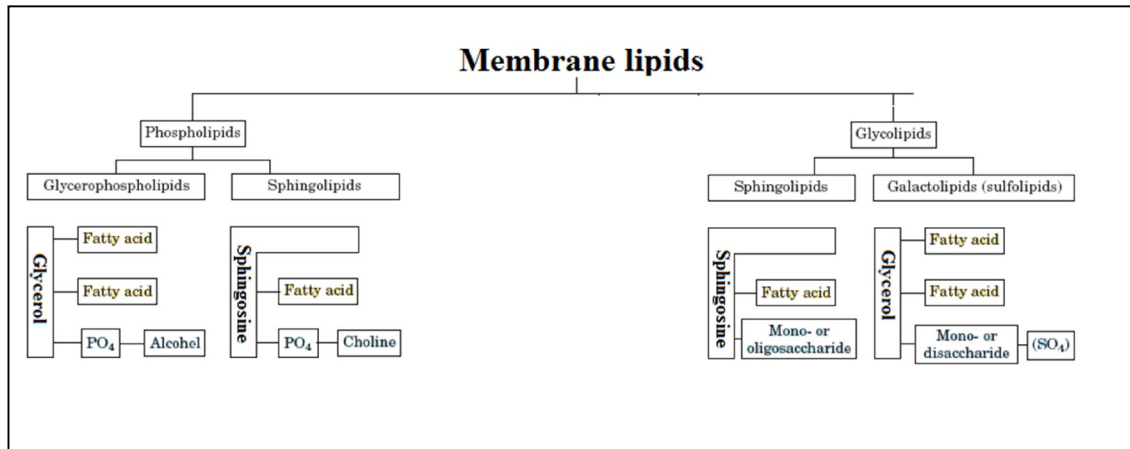
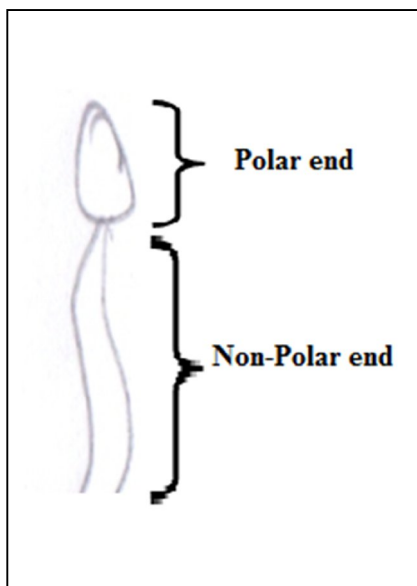




The biological membranes are double layer membrane (called membrane bi-layer). The membrane acts as barrier to polar molecules and ions.

The membrane lipids are amphipathic, that is one end of lipid is polar (Hydrophilic) and one end is non-polar (Hydrophobic). Their hydrophobic interactions with each other and their hydrophilic interactions with water direct their packing into sheets called membrane bilayers. The single layer of biological membrane is not possible as in single layer one end (polar) will interact with water while the non-polar end also will be interacting with water that is not favourable. While in bilayers, the non-polar ends will be inside and polar ends will be exposed outside and inside (towards the cytoplasm) the cell.



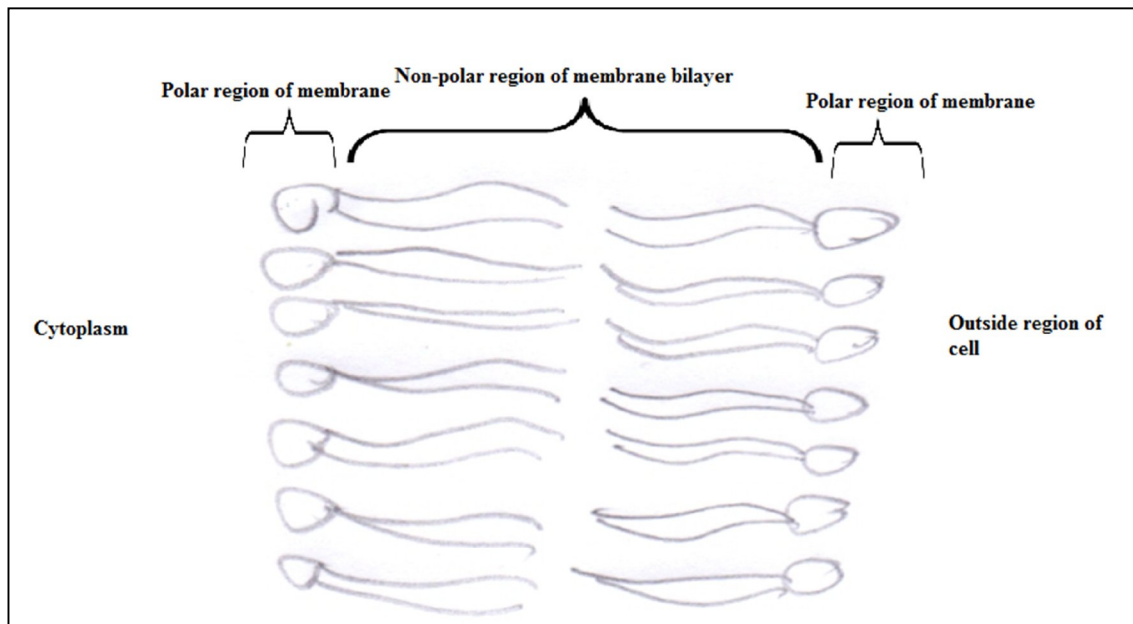


Fig: Biological Membrane Bilayer.