

Back to the cell:

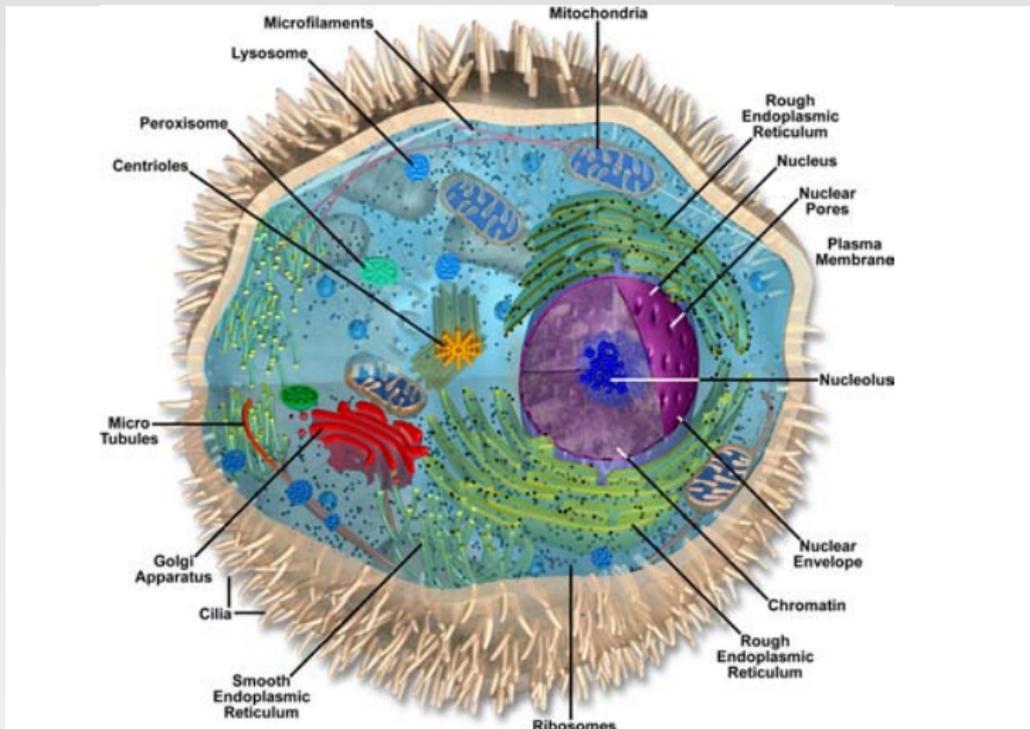
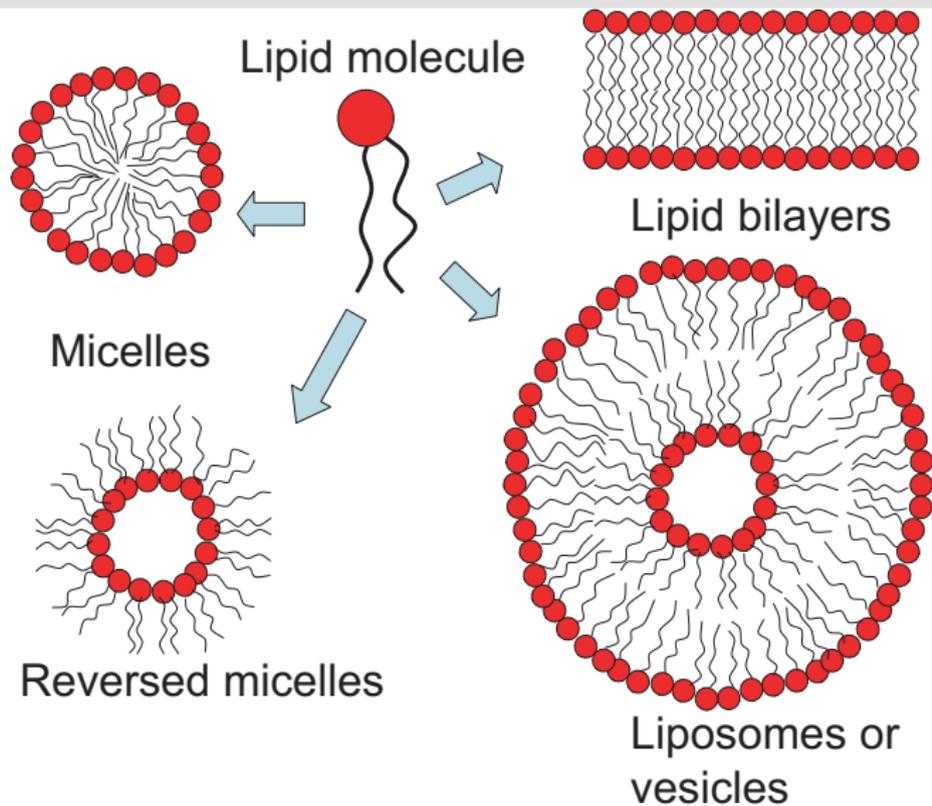


FIGURE 1.3 ■ A schematic picture of an animal cell showing sub-cellular structures, such as nucleus, membrane systems (ER), mitochondrion, etc. (Made by Michael W. Davidson, Florida State University.)

Lipids self-assemble...



Lipid phase diagrams

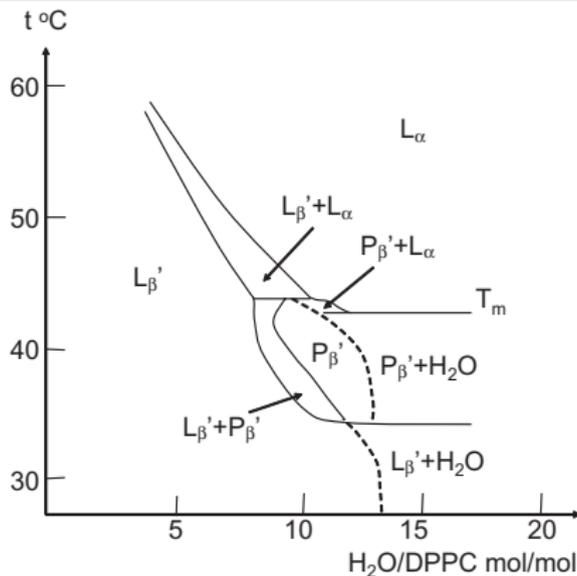
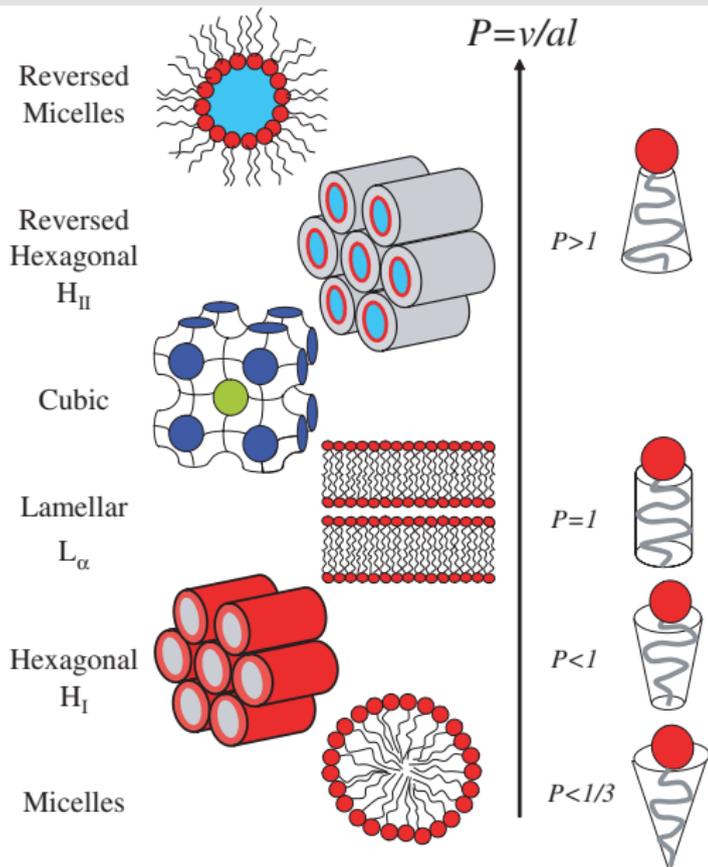
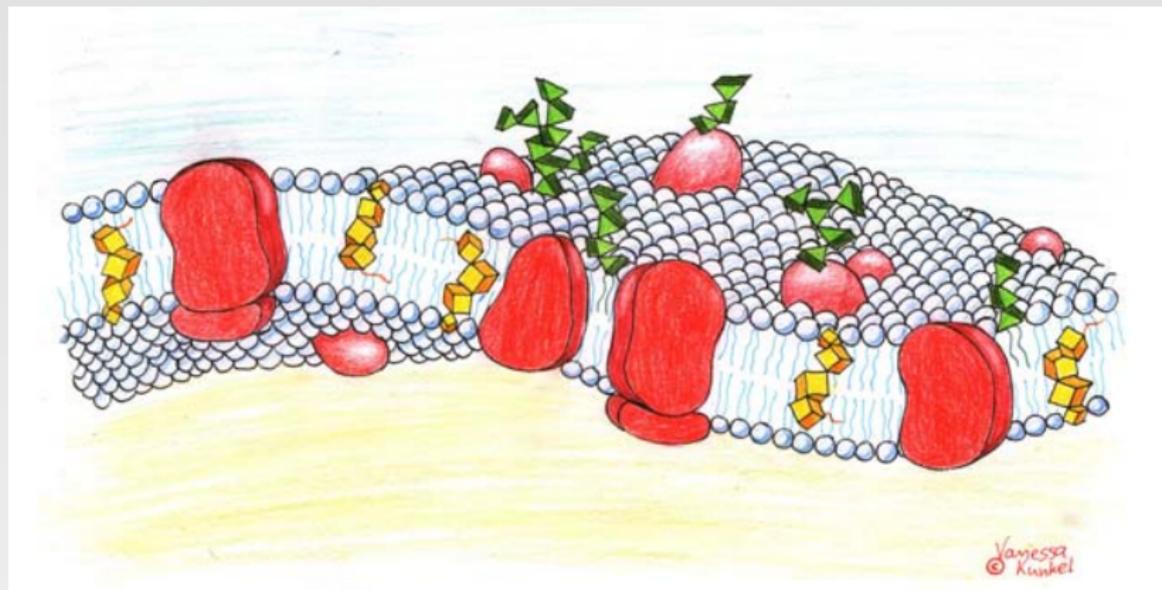


FIGURE 4.7 ■ A partial phase diagram of DPPC and water. At low temperature the gel, L_{β}' , phase is formed and at high temperature and relatively high water content, a lamellar liquid crystalline, L_{α} , phase is stable. In the middle of the phase diagram the ripple P_{β}' phase is stable in a narrow region of temperature and water content. (Adapted with permission from Ulmius J, Wennerström H, Lindblom G, Arvidson G. (1977) Deuteron NMR studies of phase equilibria in a lecithin-water system. *Biochemistry* **16**: 5742–5745. Copyright (1997) American Chemical Society.)

Types of structures



Lipid domains and rafts



Pumps, transporters, and channels

