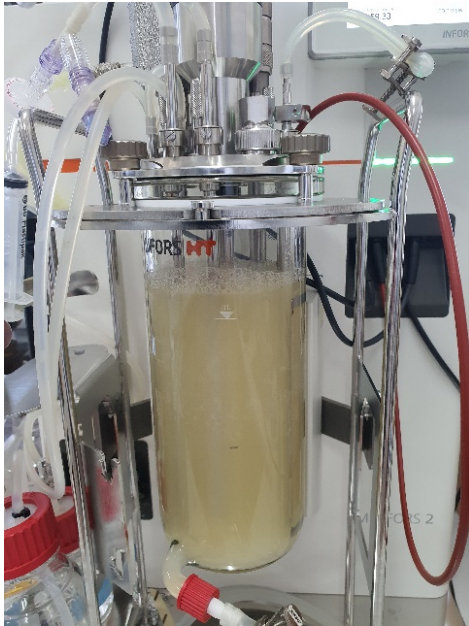
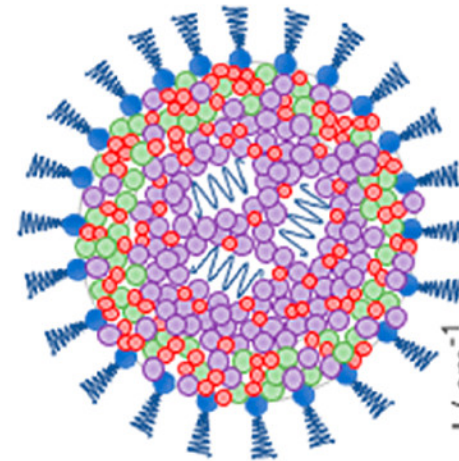
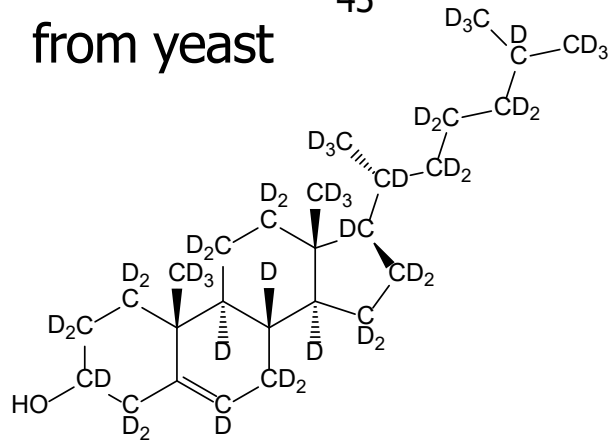


Deuterated (^2H) cholesterol

Modelling lipid nanoparticles for mRNA (COVID-like vaccine) delivery.



Cholesterol- D_{45} from yeast



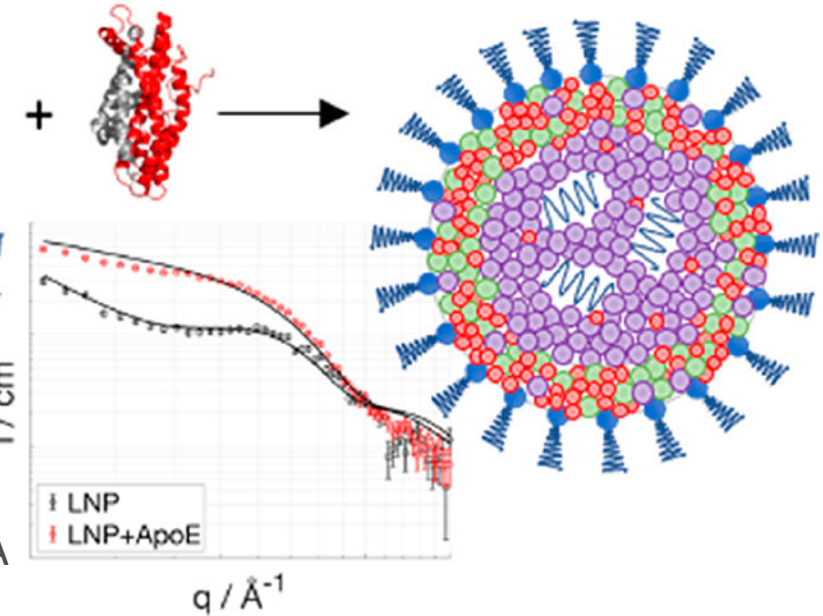
Lipid nanoparticle contains mRNA

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Protein changes the structure of the LNP membrane

- Cholesterol is an important component of lipid nanoparticles (LNPs), which can be used to transport mRNA vaccines into the body.
- Deuterated cholesterol from yeast was required for modelling the membranes of LNPs.
- Protein binding to LNPs is critical for cellular uptake and protein production in the liver.

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