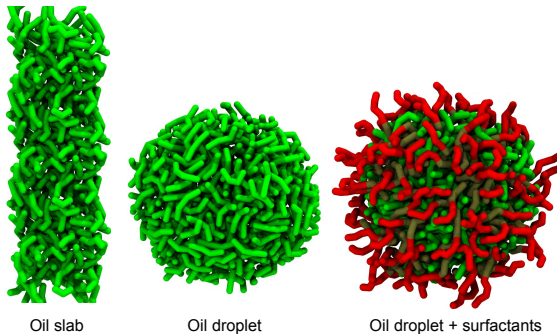




Simulation of droplet coalescence

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- Droplet coalescence is a ubiquitous phenomenon. In the oil industry it is important to separate oil from the water phase, therefore coalescence is desirable. In foods and cosmetics droplet coalescence is unwanted since it leads to macroscopic phase separation.



Your Challenges

- calculate coalescence rate for droplets of different radius: from small to large droplets (limiting case oil slabs)
- investigate the effect of surfactant molecules
- learn how to run MD simulations with GROMACS

What We Can Offer You

- guidance and help with the project
- access to supercomputer clusters

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