

Why don't organisms collapse into blobs of GOO?

non polar + nonpolar = mix

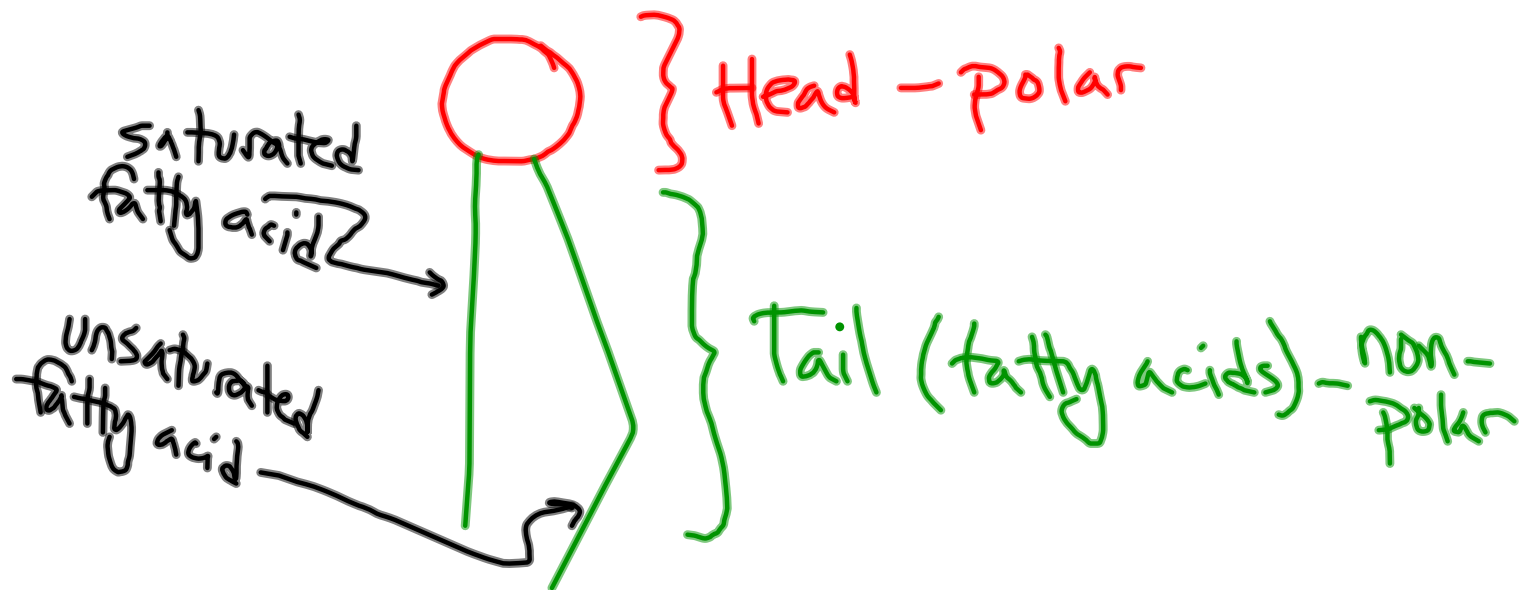
polar/ionic + polar/ionic = mix



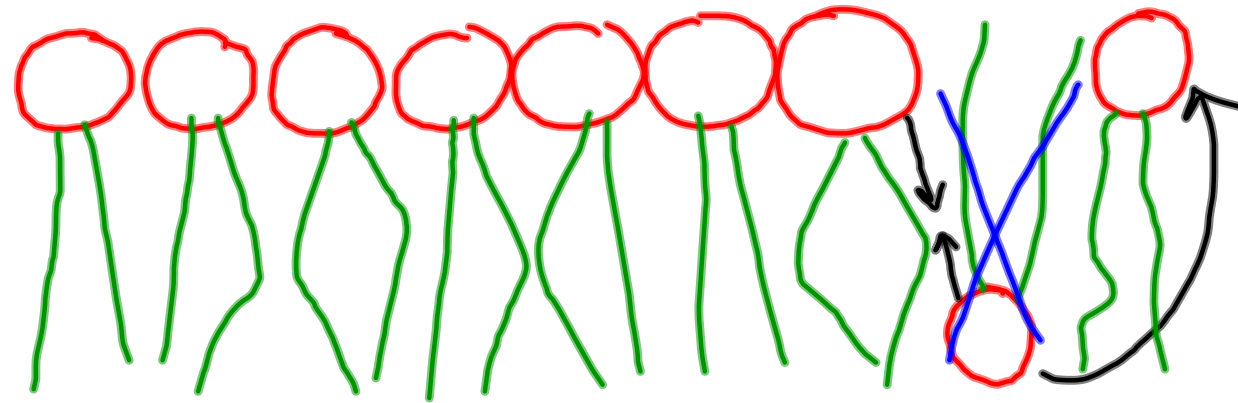
SOME substances
have a polar part
& a non-polar part

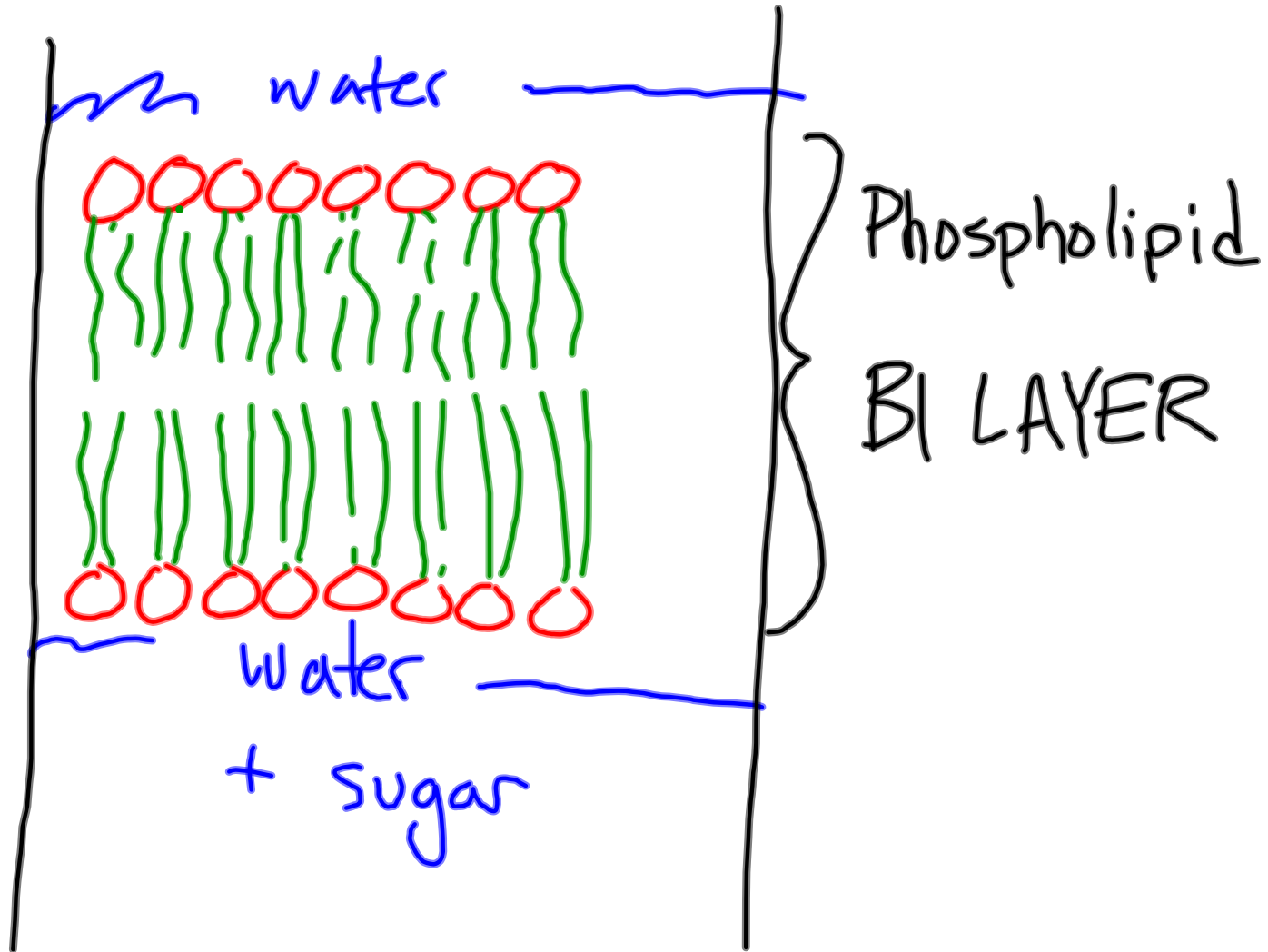
PHOSPHOLIPIDS

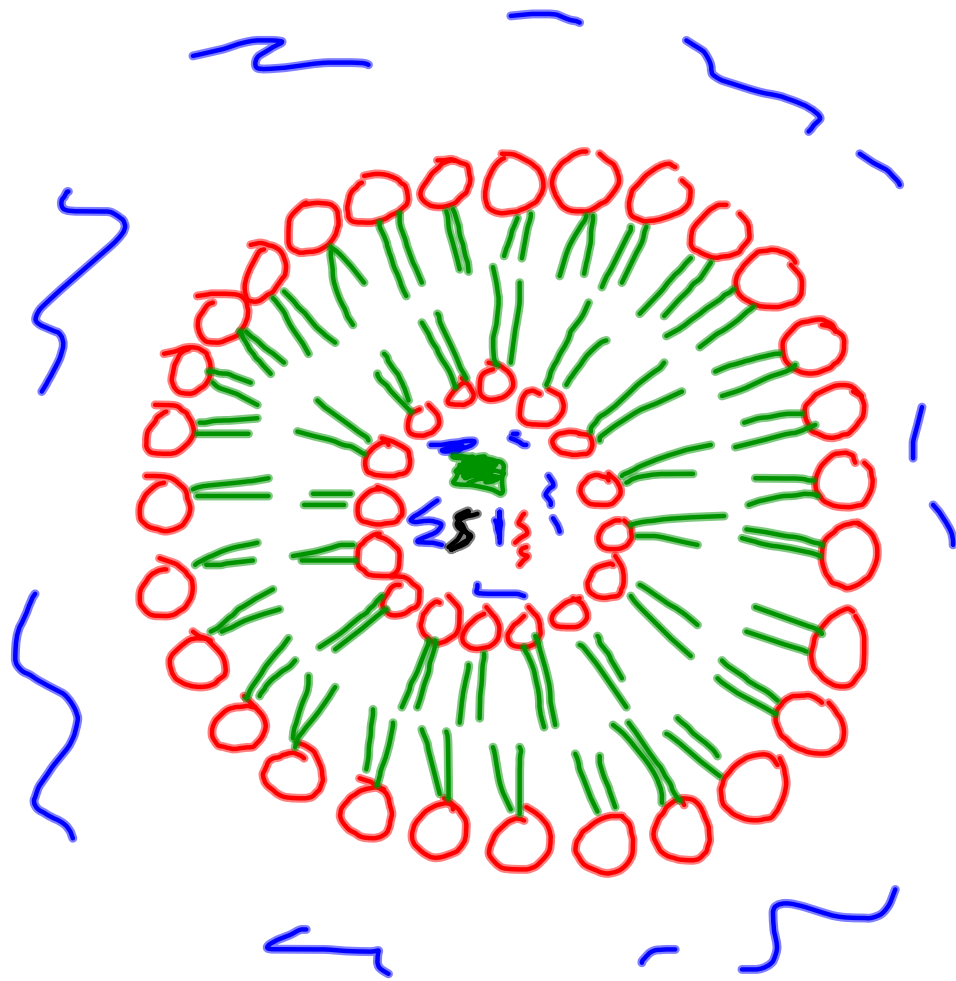
- Are a type of lipid (like fats)
- Part of a phospholipid is polar and part is non-polar



When phospholipids are mixed together, the polar parts tend to mix & the non-polar parts tend to mix - but the polar & non-polar parts stay separated:





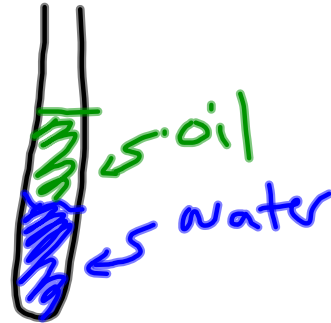


phospholipid bilayer
in spherical form:

VESICLE

Vesicles with
nucleic acids,
carbohydrates,
proteins, lipids =
basis for cells

Oil + water = bubbles that collapsed (2 piles of goo)



oil + water + phospholipids (egg) = bubbles that won't collapse

