<T #flo #ref #disorganized #incomplete

1 | Lipids

#toexpand

1.1 | Self assembly

1.2 | Construction

1.3 | Fatty acids

- · caboxylic acid
- · fatty part is a hydrocarbon
- · connected to the head by an ester linkage using a dehydration synthesis reaction
- · energy storage molecule

1.3.1 | Saturation vs unsaturated

- · If it's saturated, then everything lines up nicely
- unsaturated fatty acids have a kink (carbon doublebond)
 - harder to pack and flow more smoothly

1.4 | Phospholipids

- · like normal lipids but with a mmore polar head
- · one saturated tail and one unsaturated tail
- · bilayers separate water from outside and inside

1.4.1 | Assembly

- · Liposome: bilayer, hydrophilic inside, layer of hydrophobic tails
- Micelle: one layer, hydrophobic inside
- 1. Assembly structure depends on pH
 - High pH = low protons available
 - thus, the charged head is negatively ionized
 - Thus, the hydrophobic tails attract eachother by water exclusion and charged heads repel eachother
 - pH around 8.5 means half and half, which means that charged heads are likely to attract eachother

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2 | Voltage in Cells

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