

# BIOL 1110- 3.5.1 #1



	Fats	Oils
Similarities	Triglycerides made up of one glycerol molecule and three fatty acid molecules	Triglycerides made up of one glycerol molecule and three fatty acid molecules
Differences	Saturated / no C=C bonds	Unsaturated / one or more C=C bonds
	Saturated chains packed closely together	Unsaturated chains packed less closely
	Van der Waal's forces between molecules are stronger	Van der Waal's forces between molecules are weaker

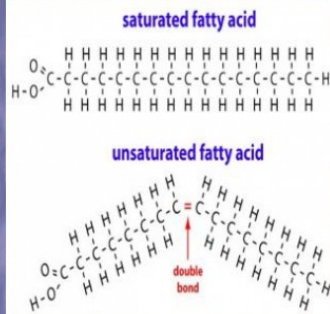
[Ch.3&5]

ATK/1700 DEF/1500

68558095

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# BIOL 1110- 3.5.1 #2



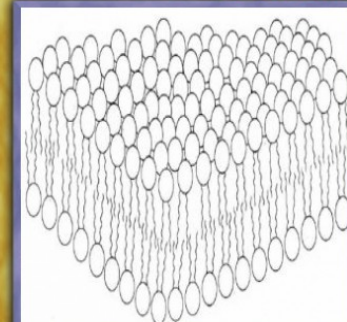
[Ch.3&5]

ATK/1600 DEF/1750

11639796

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# BIOL 1110- 3.5.2 #1



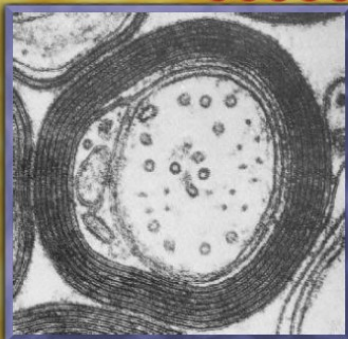
[Ch.3&5]  
Lipid Bilayer forms spontaneously to avoid getting water in the inside.

ATK/1800 DEF/1700

09709826

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# BIOL 1110- 3.5.2 #2



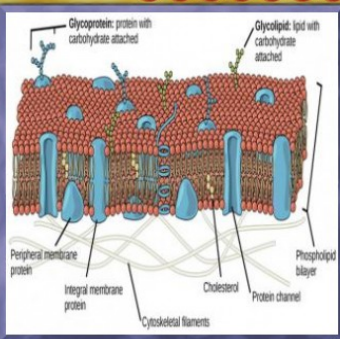
[Ch.3&5]  
Hydrophilic side of Bilayer Lipids are on the outside, Hydrophobic side is on the inside

ATK/2000 DEF/1700

53659160

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# BIOL 1110- 5.1.1



[Ch.3&5]  
Protein float on Bilayer like boats on a pond

ATK/2800 DEF/2500

43285694

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# BIOL 1110- 5.1.2



## Membrane Structure

Cellular membranes have 4 components:

1. phospholipid bilayer
2. transmembrane proteins
3. interior protein network
4. cell surface markers

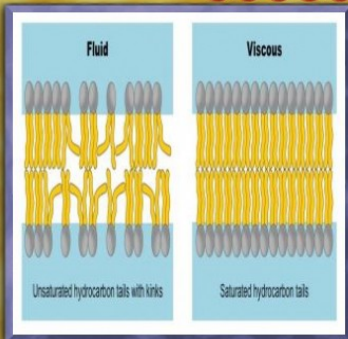
[Ch.3&5]  
1. Is the barrier to large polar molecules  
2. Are like a transport and communication system of the outside and inside  
3. Determines shape and for communication  
4. Self and foreign recognition

ATK/2000 DEF/2100

99778182

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# BIOL 1110- 5.2.1



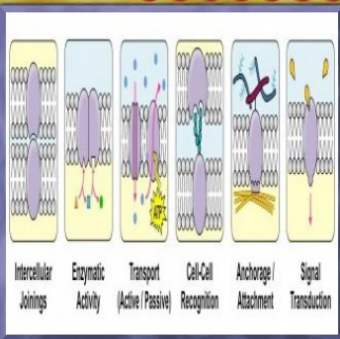
[Ch.3&5]  
Unsaturated Fats makes Kinks, Saturated makes stable  
High temp makes more fluidity, low temp makes less fluidity

ATK/1800 DEF/1950

79276250

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# BIOL 1110- 5.3.1



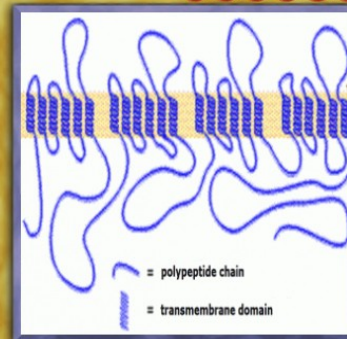
[Ch.3&5]  
1. Transporters 2. Enzymes 3. Cell-Surface Receptors 4. Cell-Surface Identity Markers 5. Cell-to-cell Adhesion Proteins 6. Cytoskeleton Anchors

ATK/2400 DEF/1900

53885946

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# BIOL 1110- 5.3.2



[Ch.3&5]  
Transmembrane Domain is where nonpolar proteins are connected into or onto the Bilayer; allows transport for polar molecules

ATK/2100 DEF/1800

24528290

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