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Membranes

Fatty acids commonly occur with an _____ number of carbons.

- (●) even
- ( ) odd

In higher plants and animals, what are the most common fatty acid chain lengths?

16 and 18

Unsaturated fatty acids always have a double bond on C9.

- ( ) True
- (●) False

Unsaturated fatty acids usually have a double bond on the _____ carbon from the end.

- ○ 8
- ◉ 9
- ○ 10
- ○ 11
- ○ 12

Polyunsaturated fatty acids typically have double bonds every _____ carbons.

- ○ 1
- ○ 2
- ◉ 3
- ○ 4

Saturated fatty acids usually occur on _____ of glycerol in glycerophospholipids.

- ◉ C1
- ○ C2
- ○ C3

What is the role of triacylglycerides in vivo?

energy storage in adipose tissue

Which carbon on glycerol is the polar head group attached to?

- ○ C1
- ○ C2
- ◉ C3

Which amino acid is commonly found as part of the polar head group of phospholipids?

serine

Which carbon on glycerol is not the target of one of the main phospholipases listed in Fig. 9-5?

- ○ C1
- ○ C2
- ○ C3
- ◉ They are all targets

What is the most abundant steroid in animals?

cholesterol

Which vitamin is a steroid derivative?

Vitamin D

What are three additional vitamins that can be classified as lipids?

Vitamin A, Vitamin K, and Vitamin E

Remember CHEM 106? Arachadonic acid gets converted to what type of hormone?

prostaglandins

Lipid bilayer formation is driven by entropy.

- (●) True
- ( ) False
- ( ) Entropy, what is this entropy thing that you speak of?

Match each modification with how it would change the properties of a lipid bilayer.

	More fluid	Less fluid	No change
addition of cholesterol	( )	(●)	( )
increased amount of polyunsaturated fatty acids	(●)	( )	( )
shorter carbon chains	(●)	( )	( )

Lipid bilayers are rigid structures that don't allow for lateral diffusion of biomolecules.

- ( ) True
- (●) False

What is a membrane skeleton?

proteins that coat the intracellular side of

What are the the main proteins that compose the human erythrocyte membrane skeleton?

actin, tropomyosin, Bankd 4.1, Ankyrin, Band 4.2, Spectrin

Integral membrane proteins always made of primarily alpha helices.

- ○ True
- ◉ False

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