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Lipid

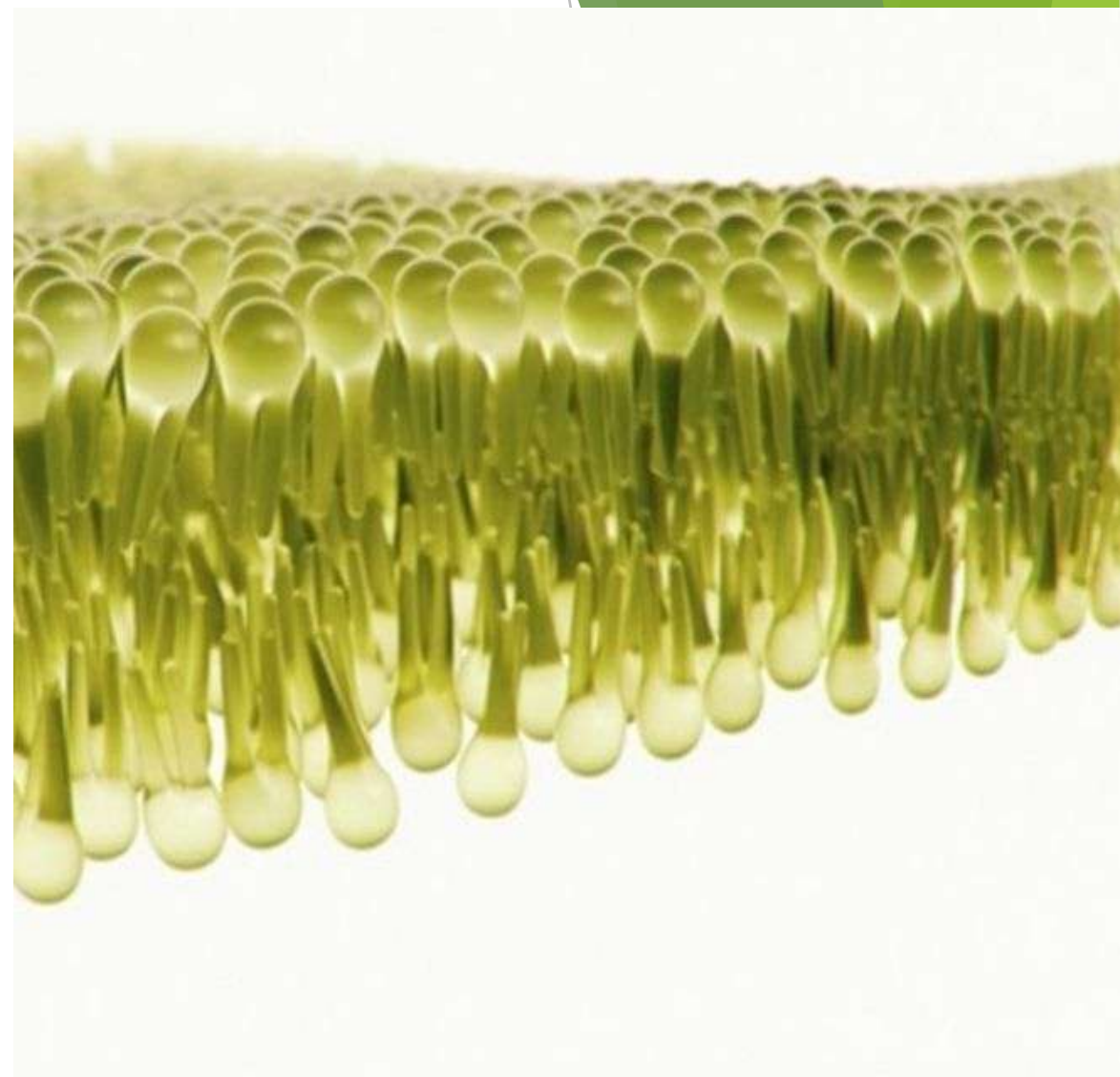
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Introduction:

A lipid is chemically defined as a substance that is insoluble in water and soluble in alcohol, ether and chloroform.

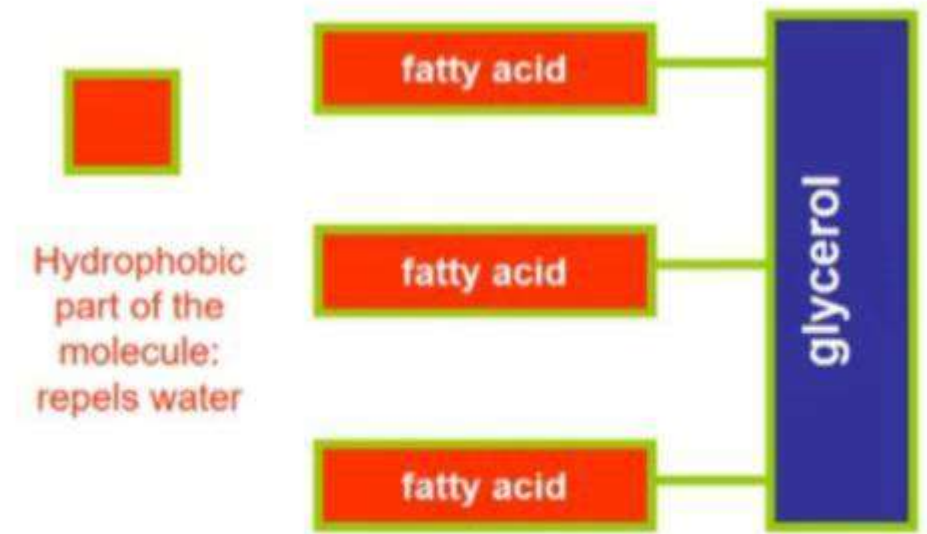
And lipid are an important component of living cells , the main constituent of plant and animal cells ,and they serve as a source of fuel



➤ structure of lipid:

A fat molecule consist of two main component :
Glycerol and 3 fatty acid

Joining three fatty acids to a glycerol backbone in dehydration reaction
Form triacylglycerol



where do lipid come from:

Excess carbohydrates in the diet are converted into triglycerides, which involves the synthesis of fatty acids from acetyl-CoA in a process known as lipogenesis



➤ **metabolism of lipid**

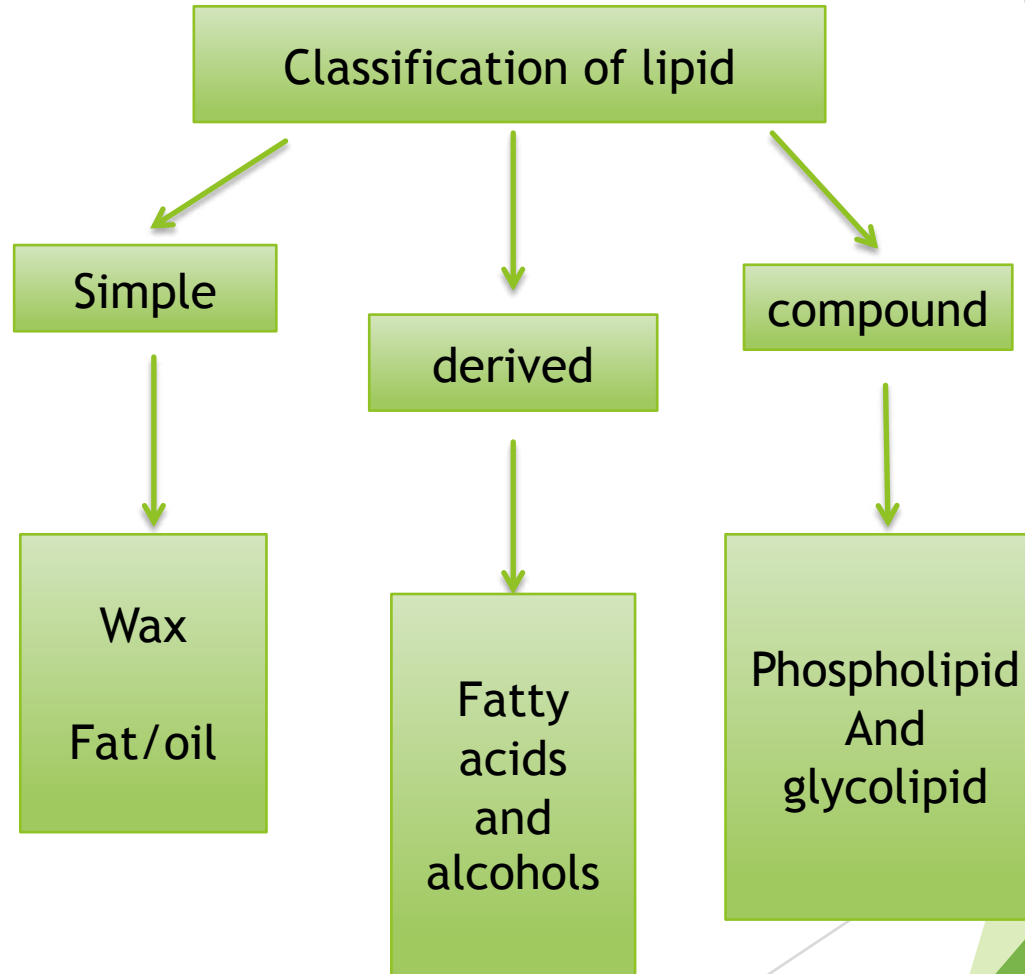
Lipid metabolism begins in the intestine where ingested triglycerides are broken down into smaller chain fatty acids and subsequently into monoglyceride molecules by pancreatic lipases

➤ importance of lipid

Fats are important for heat insulation . Marine mammals , such as seals , dolphins and whales , offer a perfect example of how fats can provide insulation . In order to prevent themselves from freezing to death in water

Fats also provide a protective layer around important organs in animals such as our liver and kidneys

Classification of lipid :



Summary

- ❖ Lipid is the most important part in our body That inter in our cell structure and make many function like save the sensitive organs like kidney
- ❖ Lipid consist of 3 fatty acid with glycerol And breakdown to small unite of monoglycride to give energy by metabolism way.

Reference:

- ❖ <https://www.healthline.com/health/how-many-muscles-are-in-the-human-body>.
- ❖ <https://biologydictionary.net/wp-content/uploads/2017/02/Muscular-System-Diagram.jpg>

thank
you