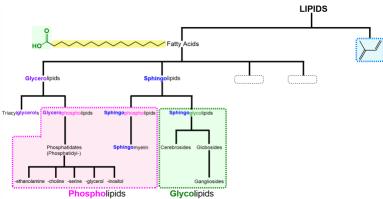
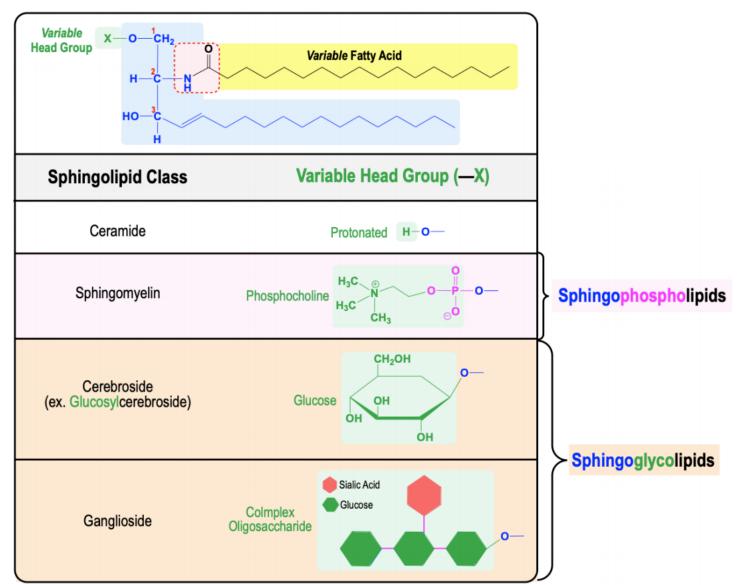
CONCEPT: SPHINGOLIPID RECAP



Reviewing Classes of Sphingolipids

- •Sphingolipids are ______ according to their variable head group (-X).
 - □ Different *variable head groups* dictate the structure & _____ of the sphingolipid.
 - □ Fatty acid chain *length* & *degree of saturation* can also _____ among molecules in each class.



CONCEPT: SPHINGOLIPID RECAP

PRACTICE: Which of the following is TRUE of sphingolipids?

- a) They always contain glycerol and fatty acids.
- b) They may be charged, but are never amphipathic.
- c) Phosphatidylcholine is a typical sphingolipid.
- d) They contain only one esterified variable fatty acid.
- e) Cerebrosides, globosides and gangliosides are sphingolipids.

EXAMPLE: Appropriately match each of the following six lipid molecules with one of the listed types of lipids:

Cerebroside, Phosphatidylserine, Triacylglycerol, Sphingomyelin, Linoleate, Phosphatidylglycerol.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

CONCEPT: SPHINGOLIPID RECAP

PRACTICE: Match the following lipid types with the correct description.

a)	Fatty acid	Membrane lipids with a glycerol backbone.
b)	Triacylglycerol	2. Phospholipid especially common in nerve cells.
c)	Phospholipid	3. One of the simplest forms of a glycolipid.
d)	Sphingosine	4. Lipids covalently attached to carbohydrate groups.
e)	Glycerophospholipid	5. Chains of hydrogen-bearing carbon atoms with a carboxylic acid.
f)	Sphingomyelin	6. Complex glycolipids with a sialic acid residue.
g)	Glycolipid	7. A complex amino alcohol backbone for membrane lipids.
h)	Cerebroside	8. Major class of membrane lipids.
i)	Ganglioside	9. Long-term storage form of fatty acids.