



#### ACROSS

- 2** \_\_\_\_\_ is the triterpene which is the biochemical precursor to the whole family of steroids
- 3** A \_\_\_\_\_ is a terpenoid lipid characterized by a carbon skeleton with four fused rings generally arranged in a 6-6-6-5 fashion.
- 7** \_\_\_\_\_ is a phospholipid which is a major constituent of cell membranes. This lipid is such a major component of lecithin that in some contexts the terms are used as synonyms.
- 8** A \_\_\_\_\_ is any member of a group of lipid compounds having 20 carbon atoms, including a 5-carbon ring which are derived enzymatically from fatty acids, having important functions in the animal body especially in immunity.
- 12** \_\_\_\_\_ fats are fatty acids having more than

- one double bond present in the fatty acid chain.
- 13** \_\_\_\_\_s or phosphoglycerides are glycerol-based phospholipids. They are the main component of biological membranes.
- 15** A \_\_\_\_\_ fat is a fat that consists of triglycerides containing fatty acids with no double bonds between the carbon atoms of the fatty acid chain
- 16** \_\_\_\_\_ is mostly a mixture of glycolipids, triglycerides, and phospholipids. However, in biochemistry, the term is usually used as a synonym for pure phosphatidylcholine.
- 17** \_\_\_\_\_s are a class of lipids which are a major component of all biological membranes, along with glycolipids, cholesterol and proteins.
- 18** A \_\_\_\_\_ acid is a carboxylic acid often with a long unbranched aliphatic tail, which is either saturated or unsaturated

- 19** A \_\_\_\_\_, more formally known as a diacylglycerol, is a glyceride consisting of two fatty acid chains covalently bonded to a glycerol molecule through ester linkages.
- 20** \_\_\_\_\_ fatty acids are a family of polyunsaturated fatty acids which have in common a double bond in the third carbon-carbon bond from the terminal end.

#### DOWN

- 1** \_\_\_\_\_ is a common synonym for the chemical compound 2-methylbuta-1,3-diene. It is an important biological material, being a precursor for many important classes such as the terpenes and steroids.
- 4** Including the essential oils of many plants, \_\_\_\_\_s are a large and varied class of hydrocarbons which are derived biosynthetically from units of isoprene.
- 5** \_\_\_\_\_ fats are fatty acids having a single double bond present in the fatty acid chain, with all of the carbons in the chain single bonded
- 6** \_\_\_\_\_ is a sterol found in the cell membranes of all physiological tissues and transported in the blood plasma of all animals.
- 9** A \_\_\_\_\_ consists of glycerol esterified with three fatty acids, although slightly more formally, the form is known as triacylglycerol or triacylglyceride.
- 10** \_\_\_\_\_s can be broadly defined as any fat-soluble (hydrophobic), naturally-occurring molecules.
- 11** A wide group of molecules, \_\_\_\_\_ are generally triesters of glycerol and fatty acids.
- 14** \_\_\_\_\_s, or steroid alcohols are a subgroup of steroids with a hydroxyl group in the 3-position of the A-ring.