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The protein components are specific for each type of membrane and determine their predominant physiological functions. The lipid component, apart from its critical barrier function, is for the most part physiologically silent, although derivatives of certain membrane lipids can serve as intracellular messengers.

Lipid - Lipids in biological membranes | Britannica

Lipids help to store energy, cushion and protect organs, insulate the body, and form cell membranes. Proteins: biomolecules capable of forming complex structures. Proteins are composed of amino acid monomers and have a wide variety of functions including transportation of molecules and muscle movement.

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Non-polar molecules are hydrophobic ("water fearing"), or insoluble in water. Lipids perform many different functions in a cell. Cells store energy for long-term use in the form of fats. Lipids also provide insulation from the environment for plants and animals (Figure 1).

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Different types of lipids have a variety of biological roles. The main function of triglycerides is similar to carbohydrates. They serve as fuel molecules that provide energy to the cellular metabolism. Phospholipids are components of plasma membranes.

Lipid Biological Functions - News-Medical.net

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