Chapter 10 – Lipids

10.1 Storage Lipid

The following sub-sections are important:

* The Introduction
* Fatty Acid are Hydrocarbon Derivatives
* Triacylglycerols are Fatty Acid Esters of Glycerol
* Triacylglycerols Provide Stored Energy and Insulation
* Partial Hydrogenation of Cooking Oils Improves Their Stability but Creates Fatty Acids with Harmful Health Effects
* Waxes Serve as Energy Stores and Water Repellents

10.2 Structural Lipids in Membranes

The following sub-sections are important:

* The Introduction
* Glycerophospholipids Are Derivatives of Phosphatidic Acid
* Sterols Have Four Fused Carbon Rings

10.3 Lipids as Signals, Cofactors and Pigments

The following sub-sections are important:

* The Introduction
* Eicosanoids Carry Messages to Nearby Cells
* Steroid Hormones Carry Messages Between Tissues
* Vitamins A and D Are Hormone Precursors
* Vitamins E and K and the Lipid Quinones Are Oxidation Cofactors