Chapter 17 – Fatty Acid Catabolism

17.1 Digestion, Mobilization, and Transport of Fats

The following sub-sections are important:

* The Introduction
* Dietary Fats are Absorbed in the Small Intestine
* Hormones Trigger Mobilization of Stored Triacylglycerols
* Fatty Acids are Activated and Transported into Mitochondria

17.2 Oxidation of Fatty Acids

The following sub-sections are important:

* The Introduction
* The β-Oxidation of Saturated Fatty Acids Has Four Basic Steps
* The Four β-Oxidation Steps Are Repeated to Yield Acetyl-CoA and ATP
* Acetyl-CoA Can Br Further Oxidized in the Citric Acid Cycle
* Oxidation of Unsaturated Fatty Acids Requires Two Additional Reactions
* Complete Oxidation of Odd-Number Fatty Acids Requires Three Extra Reactions
* Fatty Acids is Tightly Regulated