Chapter 18 – Amino Acid Oxidation and the Production of Urea

18.1 Metabolic Fates of Amino Groups

The following sub-sections are important:

* The Introduction
* Dietary Protein is Enzymatically Degraded to Amino Acids
* Pyridoxal Phosphate Participates in the Transfer of  -amino groups to -ketoglutarate
* Glutamate Releases its Amino Group as Ammonia in the Liver
* Glutamine Transports Ammonia in the Bloodstream
* Alanine Transports Ammonia from Skeletal Muscles to the Liver
* Ammonia is Toxic to Animals

18.2 Nitrogen Excretion and the Urea Cycle

The following sub-sections are important:

* The Introduction
* Urea is Produced from Ammonia in Five Enzymatic Steps
* The Citric Acid and Urea Cycle Can be Linked
* The Activity of the Urea Cycle is Regulated at Two Level