

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 α -amino groups to α -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