

**PLANT PHYSIOLOGY Lecture 14 - Nitrogen and Sulfur Metabolism**

**I. Importance of nitrogen and sulfur metabolism**

**A. Nitrogen and sulfur are abundant in plants**

1. Nitrogen is the fourth most abundant after C, H, and O
  - a) Present as protein (amino acids) and chlorophyll
  - b) Present in amides, nucleotides, and nucleoproteins
2. Sulfur is pretty important too
  - a) Present as part of protein (in cystine, cysteine, and methionine)
  - b) Present in glutathione, coenzyme A, and some vitamins

**II. Example of metabolic trace - nitrogen metabolism**

**III. Example of integrated metabolism - nitrogen metabolism**

