## **Protein Metabolism**

Amino acids from ingested protein

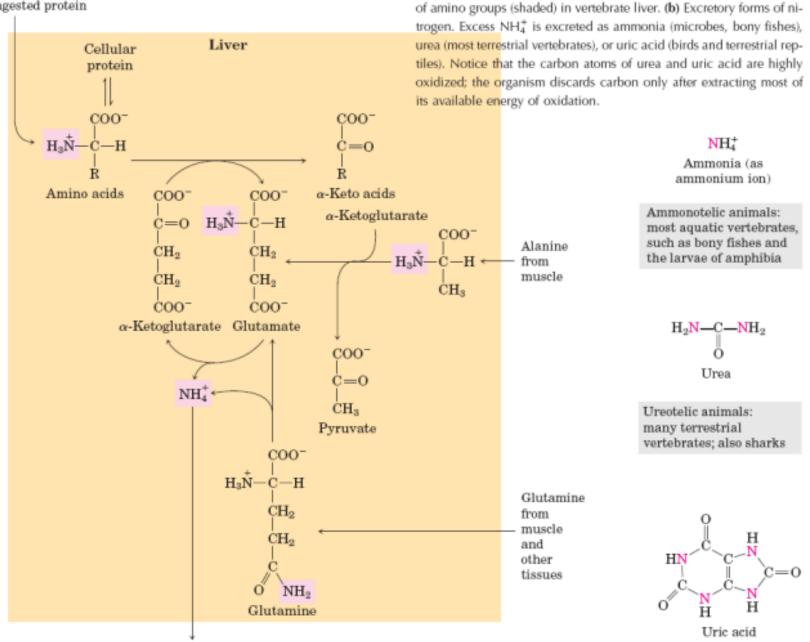
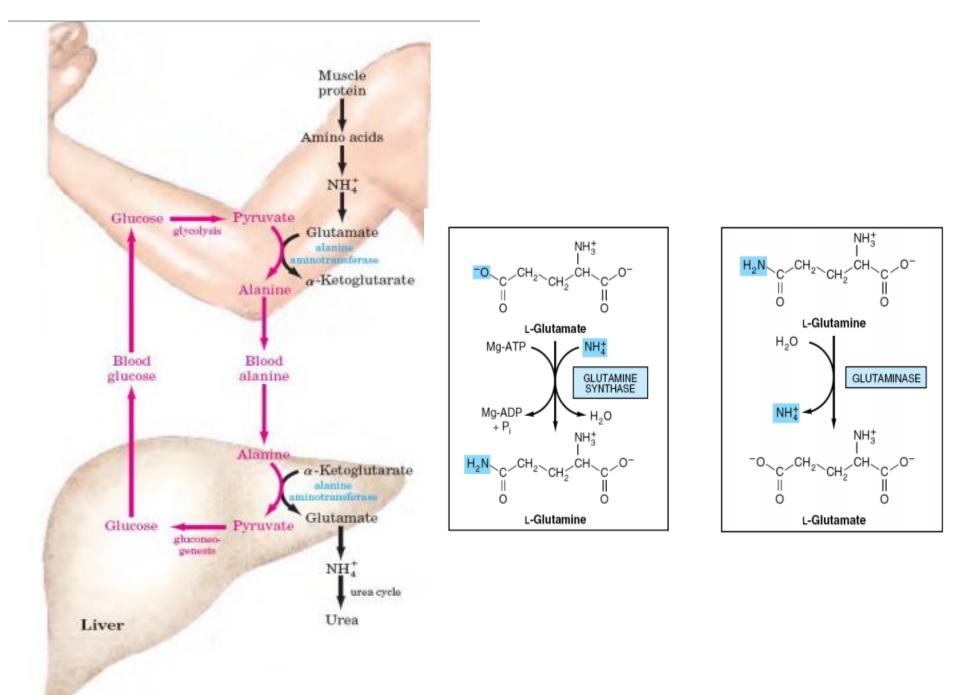
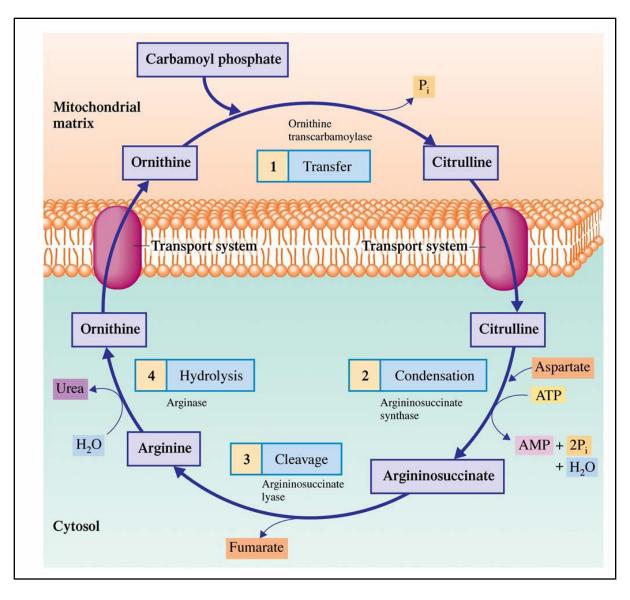


FIGURE 18-2 Amino group catabolism. (a) Overview of catabolism

NH4, urea, or uric acid



## The **four-step** <u>urea cycle</u> in which **carbamoyl phosphate** is converted to **urea**.



## F ates of C skeletons of 20 amino acids.

