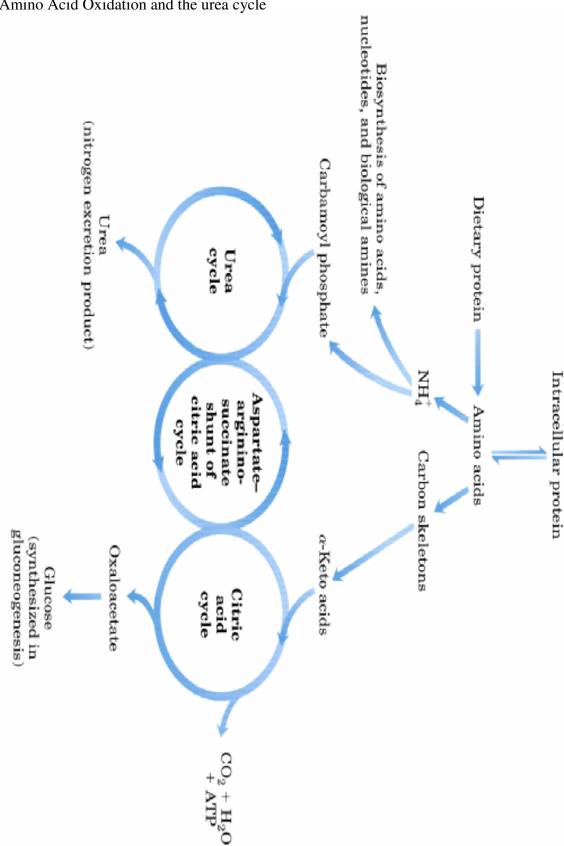
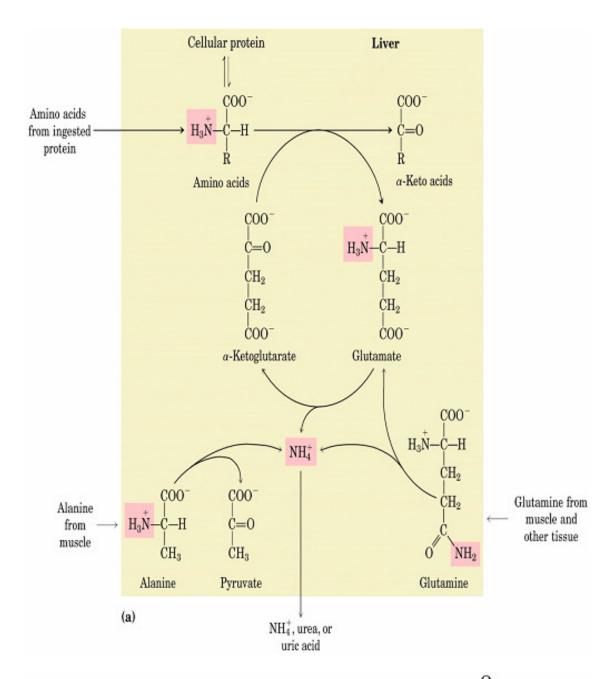
Amino Acid Oxidation and the urea cycle



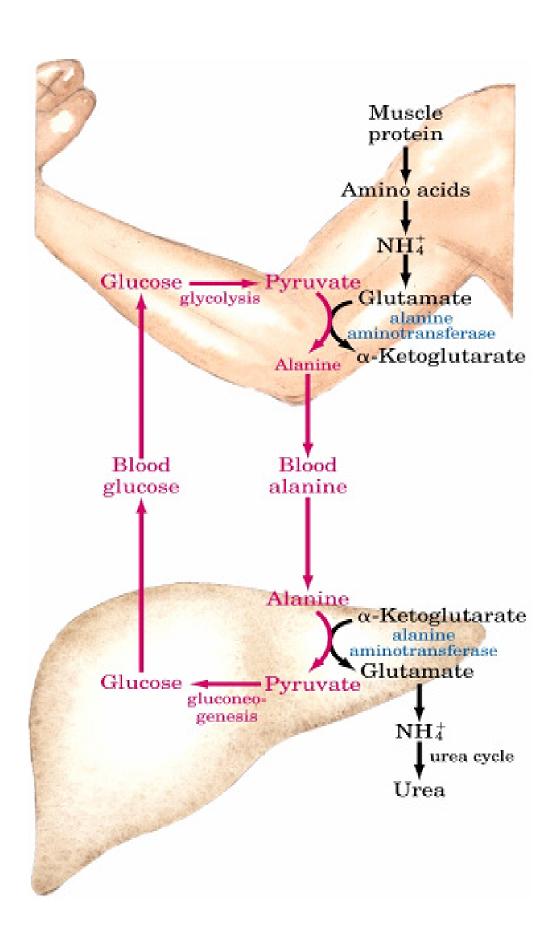


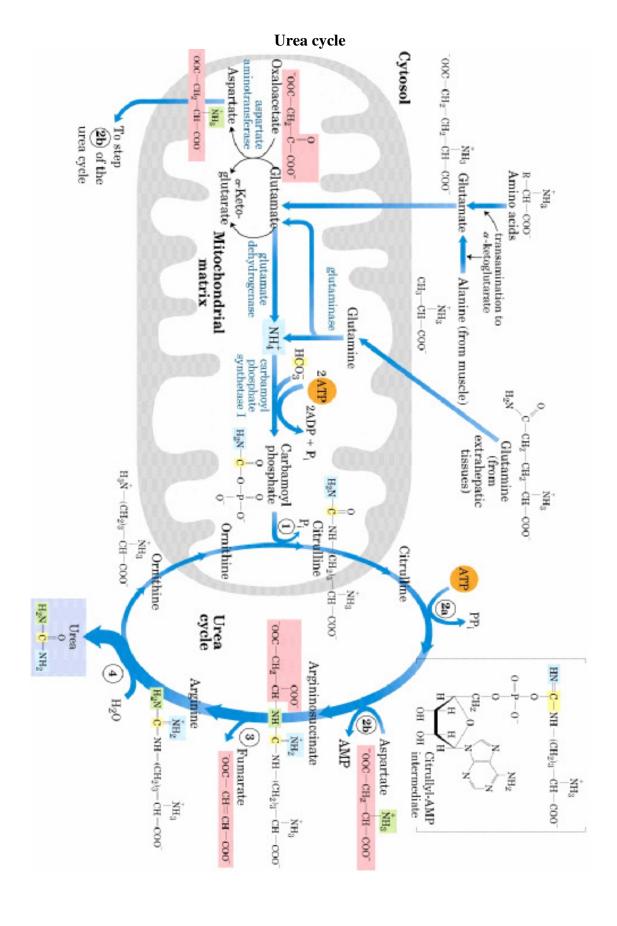
Ammonotelic animals: most aquatic vertebrates, such as bony fishes and the larvae of amphibia

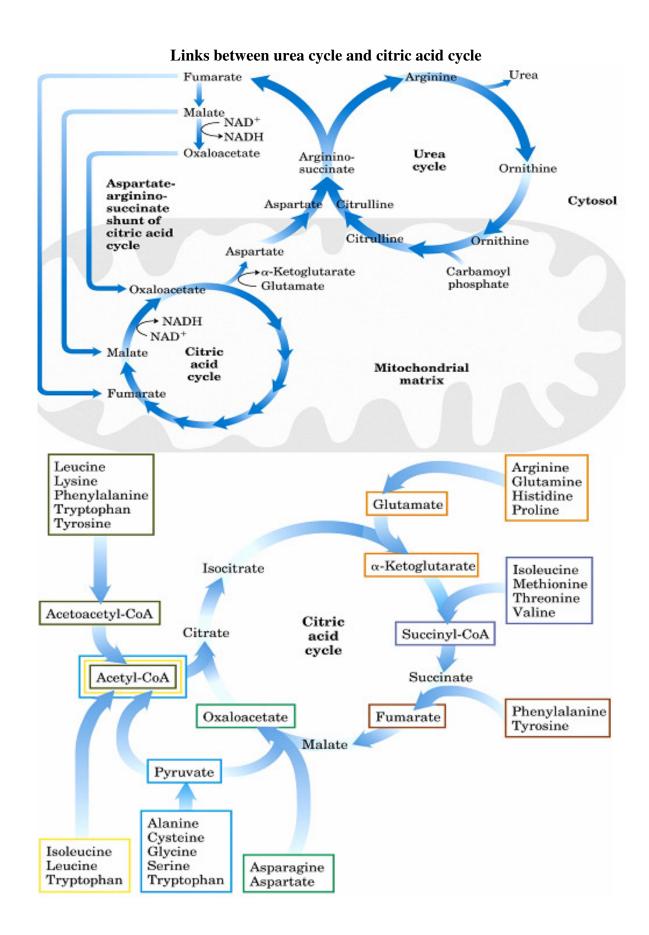
$$\begin{array}{c} \mathbf{H_2N-C-NH_2} \\ \mathbf{O} \\ \mathbf{Urea} \end{array}$$

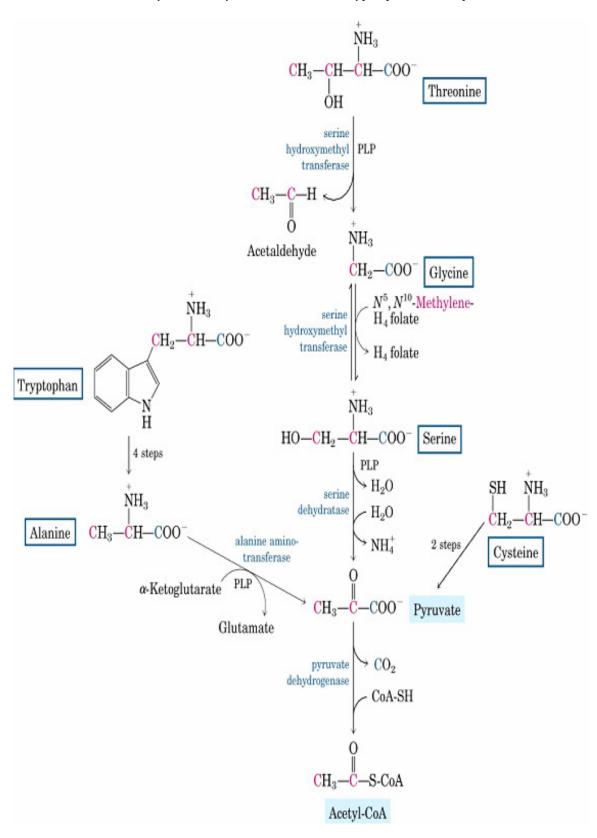
Ureotelic animals: many terrestrial vertebrates; also sharks

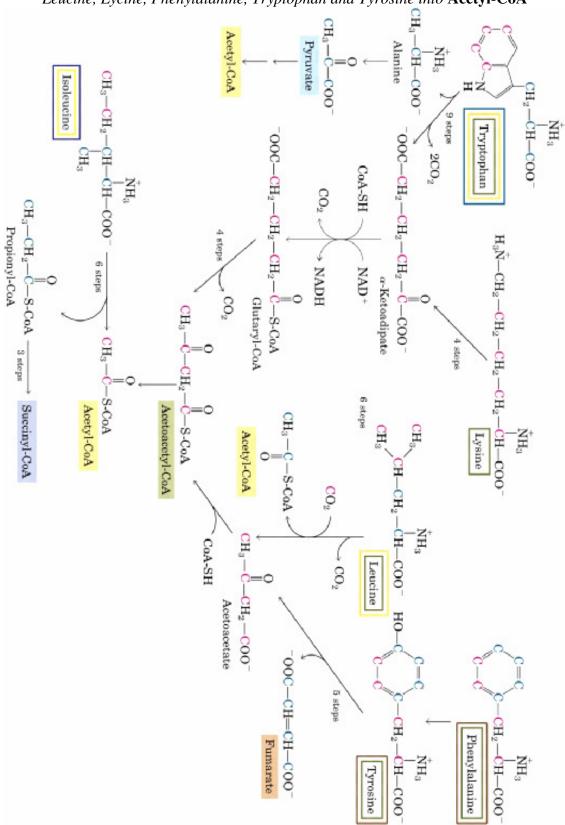
Uricotelic animals: birds, reptiles





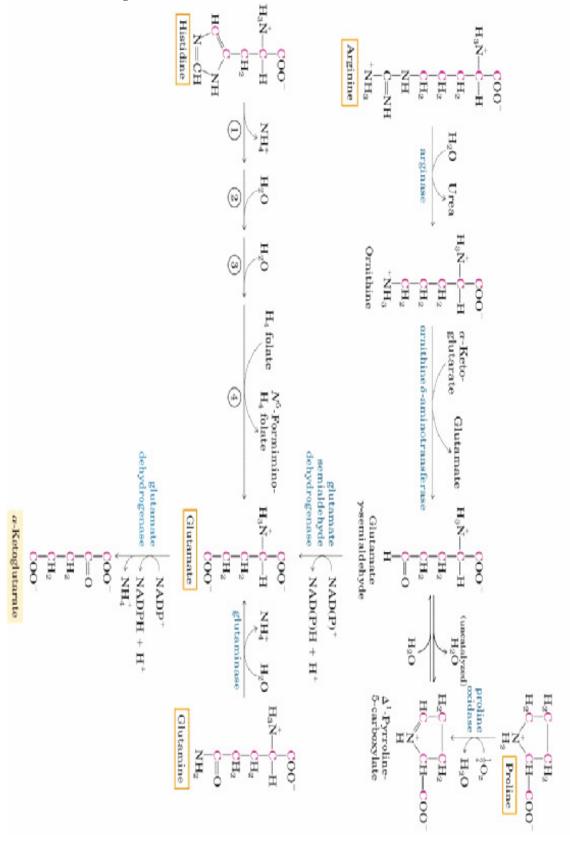




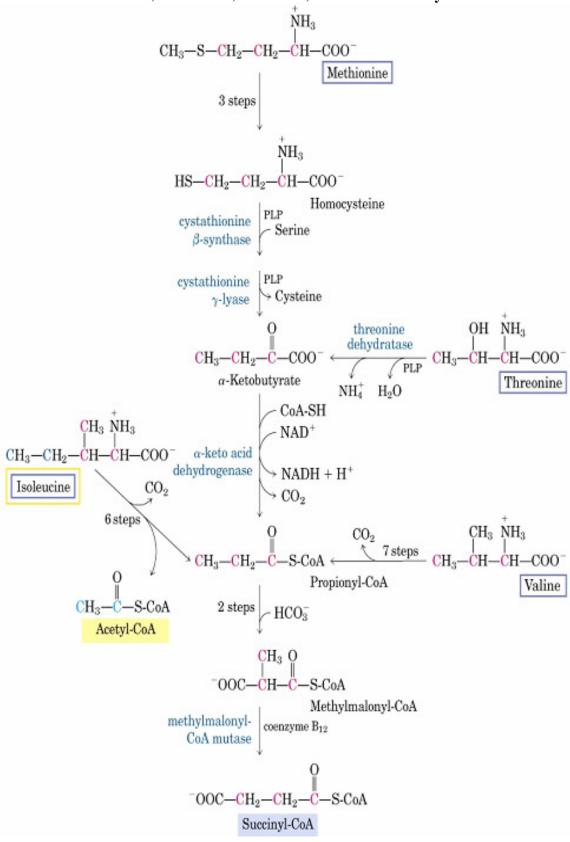


Phenylalanine and Tyrosine into Fumarate

Argenine, Glutamine, Histidine, Proline into Glutamate



Isoleucine, Methionine, Threonine, Valine into Succinyl-CoA



Asparagine and Aspartate into Oxaloacetate

