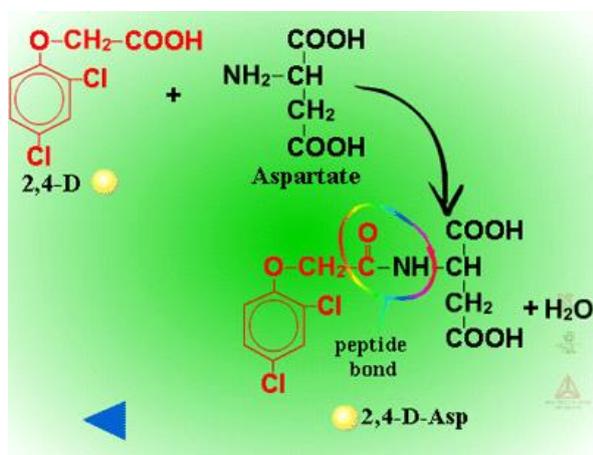


Question:

Please explain the General reaction of the Conjugation with Glycine, Gluthamine, and Other Amino Acids.

Answer:

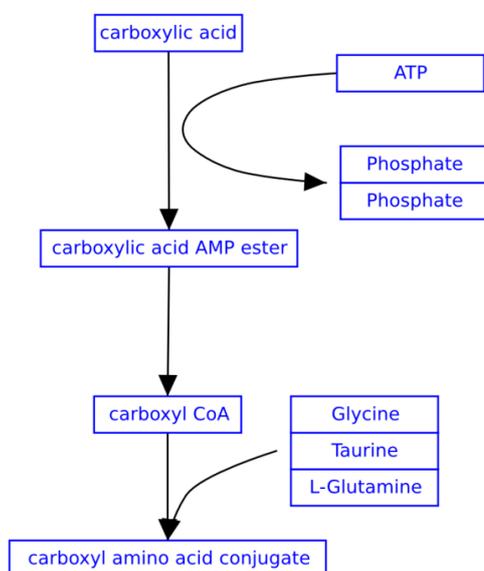
Conjugation reactions represent probably the most important xenobiotic biotransformation reaction. Conjugation with amino acid includes interaction between amine group of amino acid and carboxylic group of conjugated substance. For example, conjugation with amino acids is particularly common with the phenoxyacetic acid herbicides like 2,4-D. A peptide bond is formed between the herbicide's carboxylic acid residue and the amino acid's amino group. Some of the first evidence of amino acid conjugation with a herbicide was 2,4-D conjugation to aspartic acid:



Also conjugation reaction plays an important role in human organism as a part of a metabolic pathway:

Title: Amino acid conjugation

Organism: Homo sapiens



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