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incorporation of inorganic nitrogen into amino acids, the book then details other major nitrogenous compounds in micro-organisms, plants and animals.

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## The Role of Microbial Amino Acid Metabolism in Host Metabolism

Amino Acid Metabolism, 3rd Edition covers all aspects of the biochemistry and nutritional biochemistry of the amino acids. Starting with an overview of nitrogen fixation and the incorporation of inorganic nitrogen into amino acids, the book then details other major nitrogenous compounds in micro-organisms, plants and animals. Contents include a discussion of the catabolism of amino acids and other

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nitrogenous compounds in animals, and the microbiological reactions involved in release of ...

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Amino Acid Metabolism, 3rd Edition | Wiley

The healthy liver is a hub for amino acid metabolism in the human body, and the metabolic capabilities of the healthy liver are likely carried over to malignant cells since a strong correlation exists between the molecular signatures of cancers and their tissues of origin (20, 21). In the healthy liver, the role of amino acid metabolism is affected by the nutritional status of the body as the liver also plays an important role in whole-body glucose homeostasis.



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Quantitative analysis of amino acid metabolism in liver ...  
Metabolism of Amino Acids — General Aspects: The amino acids undergo certain common reactions like transamination followed by deamination for the liberation of ammonia. The amino group of the amino acids is utilized for the formation of urea which is an excretory end product of protein metabolism. The carbon skeleton of the amino acids is first converted to keto acids (by transamination) which meet one or more of the following fates: 1. Utilized to generate energy.

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Each amino acid is further broken down into ammonia, carbon dioxide, and water. Disorders that affect the metabolism of amino acids include phenylketonuria, tyrosinemia, homocystinuria, non-ketotic hyperglycinemia, and maple syrup urine disease. These disorders are autosomal recessive, and all may be diagnosed by analyzing amino acid concentrations in body fluids. (Maple syrup urine disease also features the production of organic acids and is discussed in the section Organic acidemias.)

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Metabolic disease - Disorders of amino acid metabolism ...  
Amino acids have various prominent functions in plants.  
Besides their usage during protein biosynthesis, they also

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represent building blocks for several other biosynthesis pathways and play pivotal roles during signaling processes as well as in plant stress response. In general, pool sizes of the 20 ...

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## Amino Acid Catabolism in Plants - PubMed

There are 4 amino acids and their keto acids that can be described as the central hub of the amino acid metabolism because they are of special significance and the most important metabolic pathways take place via these amino acids: Glutamate and alpha-ketoglutarate; Glutamine and alpha-ketoglutarate; Alanine and pyruvate; Aspartate and oxaloacetate

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## Metabolism of Amino Acids – Lecturio Online Medical Library

Protein metabolism denotes the various biochemical processes responsible for the synthesis of proteins and amino acids, and the breakdown of proteins by catabolism. The steps of protein synthesis include transcription, translation, and post translational modifications. During transcription, RNA polymerase transcribes a coding region of the DNA in a cell producing a sequence of RNA, specifically messenger RNA. This mRNA sequence contains codons: 3 nucleotide long segments that code for a specific

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## Protein metabolism - Wikipedia

Amino acids are organic compounds that contain amine ( $-NH_2$ ) and carboxyl ( $-COOH$ ) functional groups, along with a side chain (R group) specific to each amino acid. The key elements of an amino acid are carbon (C), hydrogen (H), oxygen (O), and nitrogen (N), although other elements are found in the side chains of certain amino acids. About 500 naturally occurring amino acids are known ...