

Special Issue

Amino Acid Metabolism and Disease

Message from the Guest Editor

Amino acids are better known as the building blocks of proteins, but their roles extend to the synthesis of other key compounds for the function of any organism and even the post-translational modification of proteins. Pathways of amino acid metabolism are interconnected to recycle essential amino acids, thus guaranteeing their supply under unfavorable conditions, but also with energy metabolism. Vitamins and cations are important for enzymes in these routes, further linking amino acid metabolism to nutrition, an aspect to be considered in pathological states where patients tend to change their habits or decrease their daily food ingestion. Moreover, human mutations in genes involved in amino acid metabolism are constantly being discovered, studied, and linked to a variety of outcomes, including major and rare diseases. This Special Issue is focused on these additional roles of amino acids, how pathological impairments of their metabolism impact cell function, and whether they can be prevented or ameliorated by drugs and/or nutritional interventions.

Guest Editor

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