



Amino Acids Transport and Metabolism

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Message from the Guest Editors

A Special Issue on the hot topic "Amino Acids Transport and Metabolism" is being prepared for the journal IJMS. The idea moves from the basis that amino acid homeostasis is essential for life. A complex network of enzymes and transporters cooperate to maintain homeostasis. The network is regulated in response to both cell need and nutritional state. In this frame, transporters are major players since they mediate absorption of amino acids and distribution to the entire organism. Identification, functional studies and classification of many amino acid transporters have been performed over the years using different and complementary experimental tools from *ex vivo* to *in vitro* systems, as well as *in silico* methodologies. The few solved structures of amino acid transporters from prokaryotes or eukaryotes recently boosted investigations of molecular mechanisms and structure/function relationships. Altered function and expression of amino acid transporters underlie severe human pathologies.

Original manuscripts and reviews dealing with specific and/or systematic aspects of amino acid transport, metabolism and pathophysi





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Message from the Editor-in-Chief

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