

Special Issue

Decoding the Complex Crossroad of Tryptophan Metabolic Pathways

Message from the Guest Editors

Tryptophan (Trp) is an essential aromatic amino acid obtained from the dietary intake in humans. It acts as a building block for protein synthesis and represents a crossroad of different metabolic pathways, generating a plethora of metabolites. Trp metabolites are not mere byproducts, but they play relevant physiologic functions, ranging from the neurological to the immunological functions. Overall, the central role of the Trp metabolism in health and human disease requires further advances. Interestingly, deciphering the complex cross-talk between the metabolic pathways active in the host and in the microbiota will improve the understanding of the pathogenesis of several human diseases and thus open innovative therapeutic opportunities. The current Special Issue offers the opportunity of collecting high-quality publications on various aspects of the Trp metabolism, to provide an interdisciplinary view of the topic that overarches from the methodologic procedure for the specific and quantitative identification of Trp metabolites in different biological samples to experimental observations in different disease models to highlight potential drug targets and therapeutic approaches.

Guest Editors

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