

Special Issue

Advances in Research of D-Amino Acids

Message from the Guest Editor

D-amino acids are found in all kingdoms of life like their chemical siblings, the proteinogenic L-amino acids. L-amino acids fulfill essential functions as building blocks of proteins and primary metabolites, but their enantiomers are found in other cellular contexts, which range from bacterial cell wall synthesis, to composition of antibiotics and neurotransmission, to plant nitrogen utilization and bacterial colonization of the soil. In the last decade, novel functions for D-amino acids have been found in different organisms, and many more are expected to be found in the future. In this Special Issue of *IJMS*, all aspects of D-amino acids from biosynthesis, metabolism, regulation, and transport to molecular and physiological functions will be focused on. Manuscripts such as short communications, original research papers, and reviews from researchers in this field are welcome to provide an overview of the newest findings and the future of D-amino acid research.

Guest Editor

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