

Special issue: Synthesis and Medicinal Chemistry

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Editorial

Because Amino Acids play fundamental biological roles, the need for new chemical structures is a challenge in the field of Amino Acids research.

Medicinal chemists and biochemists must work together to better understand the interactions at the molecular level between the potential bioactive compound and the biochemical target to imagine new possible structures with increased bioactivity and selectivity and decreased toxicity.

Structures based on unusual amino acids are used to better understand interactions with ligands, receptors, proteins, and/or exhibiting potential bioactivity for specific therapeutic use.

Some of these structures are natural and can be isolated. But in most case, medicinal chemists must find chemo-

and stereoselective approaches for these original poly-functionalised compounds.

This volume contains a selection of reviews and original articles dedicated to the synthesis of such challenging unusual structures based on unsaturated amino acids, cyclic and heterocyclic amino acids, phosphorous and sulphur containing aminoacids, labeled amino acids and peptides containing them.

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