Special Issue

Non-Natural Multi-Heteroatom Heterocycles: New Chemical Space

Message from the Guest Editors

Owing to the ever-increasing competitiveness within the chemical industries, there is a need to discover and develop new chemical space. New chemical structures offer competitive advantages for securing intellectual property (IP) rights. Many new and potentially useful chemicals are regularly discovered from natural sources, which is a rich pool of unusual chemical structures. Nevertheless, chemical structures that arise from nature can lead to difficulties in securing and upholding IP as these can be the subject of counter claims of 'bio-piracy'. A complementary source of new chemical space comes from the exploration of unusual heterocyclic systems that are rich in heteroatoms. Many such systems are not available from natural sources but are man-made. Often, chemical techniques that are alien to nature's own synthetic tool box are needed to create and develop these heterocycles. This Special Issue focuses on the synthesis, chemistry, applications and theoretical studies of such multi-heteroatom heterocycles whose core heterocyclic structure has not yet been reported in any structure derived from natural sources.

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