

New Dearomative Strategies in Stereocontrolled Organic Synthesis

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Identification of new reactivity pathways constitutes one of the most significant tasks in the contemporary organic chemistry. In particular, the development of enantioselective reactions where prochiral substrates are converted into enantiomerically enriched products in the presence of chiral catalyst are of great importance [1]. Recently, asymmetric organocatalysis, where simple organic molecules are used as catalysts of various enantiodifferentiating reactions, has become a highly useful synthetic tool enabling for the efficient asymmetric induction based on diverse activation modes [2]. Within this research area, the application of dearomative strategies created new synthetic opportunities for the functionalization of (hetero)aromatic compounds [3]. Herein, we report our studies on organocatalytic, enantioselective dearomative strategies for the synthesis and functionalization of biologically relevant heteroaromatic compounds [4].

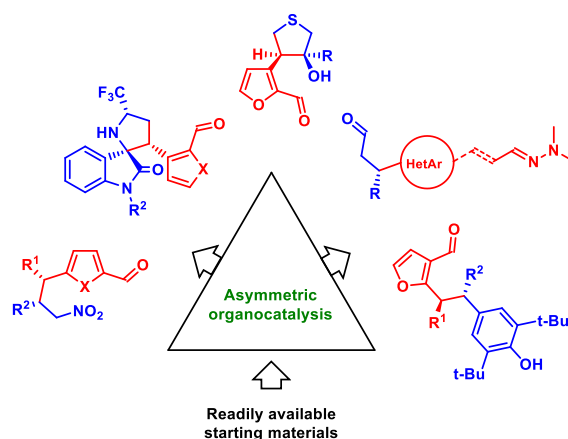


Figure 1. Organocatalytic dearomative strategies for the functionalization of heteroaromatic frameworks.

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