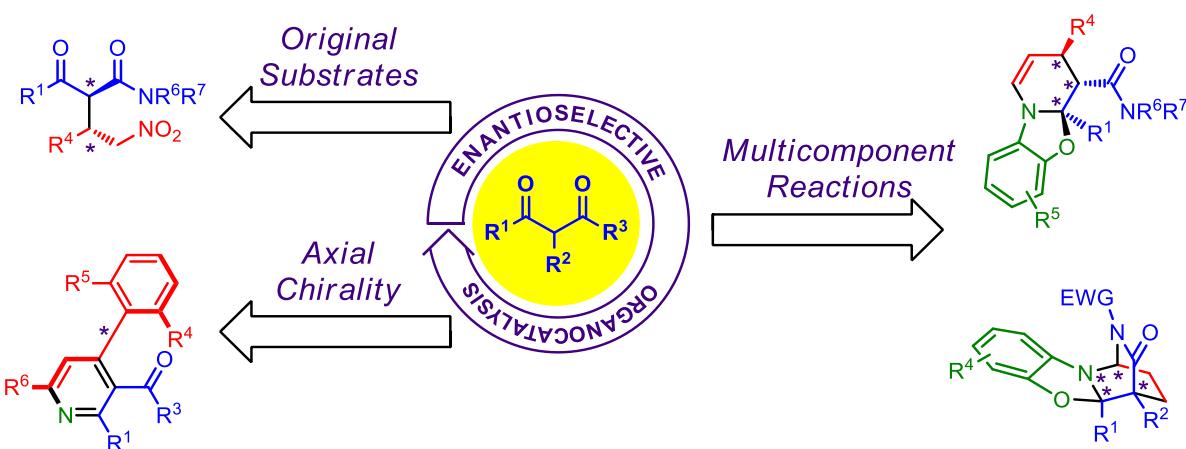


# Original Stereochemical Scenarios for Selective Organocatalysis

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Over the past years, our group has devoted efforts towards the development of new applications of enantioselective organocatalytic Michael additions with  $\beta$ -dicarbonyl substrates. The results obtained following three different research directions will be discussed: (i) the preparation and use of original substrates such as  $\beta$ -ketoaldehydes<sup>[1]</sup> and  $\beta$ -ketoamides;<sup>[2]</sup> (ii) the high synthetic potential of multicomponent reactions to assemble enantioenriched polyheterocyclic products;<sup>[3]</sup> (iii) the preparation of 4-arylpyridine atropisomers through a conversion of chirality strategy.<sup>[4]</sup>



## Literature:

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- [4] O. Quinonero, M. Jean, N. Vanthuyne, C. Roussel, D. Bonne, T. Constantieux, C. Bressy, X. Bugaut, J. Rodriguez, *Angew. Chem. Int. Ed.* **2016**, 55, 1401-1405.