

## CHEMOENZYMATIC AND MICROBIAL DYNAMIC KINETIC RESOLUTIONS

### **Abstract**

This review tracks a decade of dynamic kinetic resolution developments with a biocatalytic inclination using enzymatic/microbial means for the resolution part followed by the racemization reactions either by means of enzymatic or chemocatalyst. These fast developments are due to the ability of the biocatalysts to significantly reduce the number of synthetic steps which are common for conventional synthesis. Future developments in novel reactions and products of dynamic kinetic resolutions should consider factors that are needed to be extracted at the early synthetic stage to avoid inhibition at scale-up stage have been highlighted.

**Keywords:** dynamic kinetic resolution • biocatalysts • chemocatalysts • chiral resolution