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Diverse and versatile synthesis of bioactive heterocyclic compounds from keto acids

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Keto acids or ketoacids are also called oxoacids that can be identified as organic compounds containing a ketone group and a carboxylic acid group. Keto acids are employed to be bifunctional starting material in multicomponent reactions MCR. Keto acids are key components for preparing new heterocyclic using MCR. Multicomponent Reactions (MCRs) are reactions that combine at least three starting materials in a one-pot reaction to produce a new product. MCR are more beneficial due to their tremendous atom efficiency and they have played a significant role in the synthesis of heterocyclic compounds. It has been observed that high diversity and complexity can be obtained by using post-multicomponent reactions. This approach is suitable to provide high functionalized compounds such as lactams involving sequential reactions with further post-transformation reactions for instance cyclization and nucleophilic addition. The lactams feature privileged moieties in medicinal chemistry, therefore a flexible synthetic methods are in high demand.

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