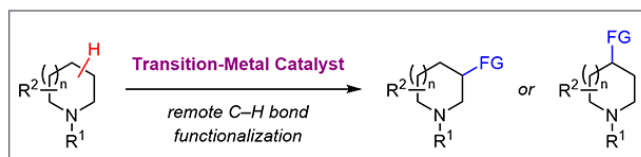


Transition-Metal-Catalyzed Remote C–H Bond Functionalization of Cyclic Amines

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The development of new synthetic methods to access differently substituted and functionalized cyclic amines is of great importance, because a large number of natural products and pharmaceuticals incorporate cyclic amines as key structural frameworks. Many of them contain single or multiple substituents on the ring at the α -position as well as at positions further away from the nitrogen atom. On the other hand, C–H bond functionalization of aza-heterocyclic substrates can be considered as one of the most direct and convenient strategies to access the title compounds, especially thanks to its effectiveness as a method for achieving the late-stage modification of parent cyclic amine structures in complex molecules.

This timely research topic has been recently covered by a Graphical Review in *SynOpen*, authored by the group of Dr. Weijie Chen (Tongji University, P. R. of China).



Scheme 1 Graphical abstract of the Chen group's *SynOpen* Graphical Review

Dr. Chen said: “In traditional review articles, it is not uncommon that explanatory texts are placed far away from the corresponding Schemes, readers thus easily get lost while searching for information between different pages. Moreover, review articles are usually quite long and plenty of readers only read Schemes carefully, since Schemes alone are often sufficient to provide the most important information about chemistry. Therefore, twenty or more pages of text are somewhat overwhelming and redundant. The new format of Graphical Review solves these problems well, demonstrating chemistry in a clearer and more efficient way without the distraction of text. The simplified format with dramatically reduced text and numbering also saves a lot of time for authors.”

Matthew Farah

About the authors



From left to right: W. Chen, X. Yang, X. Cao