Catalysis in action: from simple ideas to complex scaffolds

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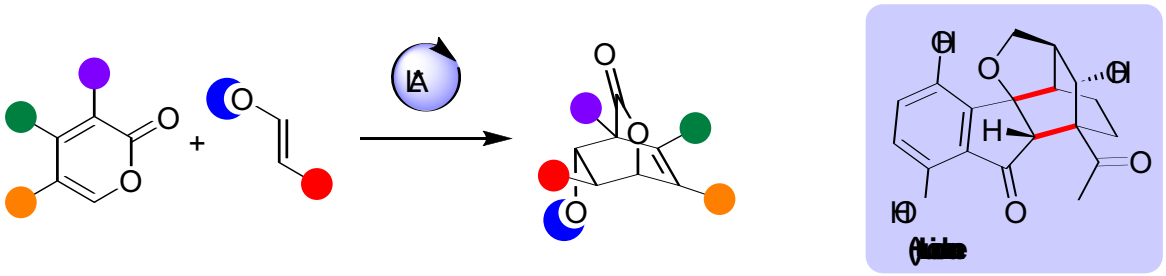
Asymmetric catalysis is a key topic in organic synthesis, as it allows the formation of new bonds while controlling stereogenic centers, which are inherent to natural products and biologically active substances. On the other hand, dual catalysis is an efficient approach to operate multiple chemical operations through a one-pot process. In this presentation, we will discuss our recent developments in asymmetric catalysis[1] and dual catalysis,[2] as well as their application to a concrete total synthesis problem.[3]



References

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[3] Huang, G.; Kouklovsky, C.; de la Torre, A. *J. Am. Chem. Soc.* **2022**, *144*, 17803–17807.