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Organocatalysis and New Chemical Concepts Tetrahedron Young Investigator Award David MacMillan

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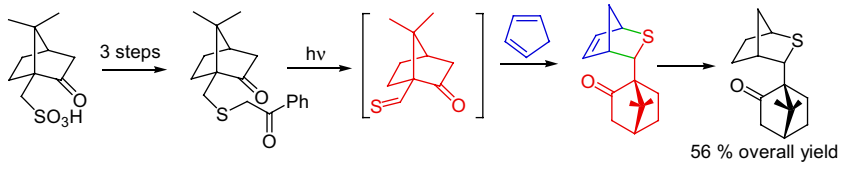
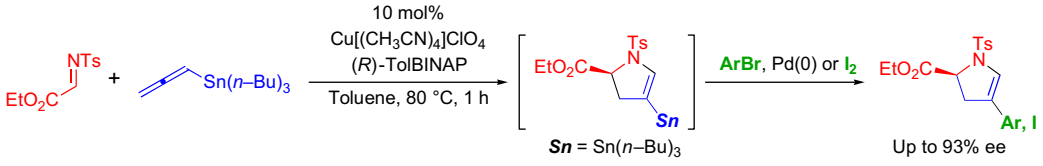
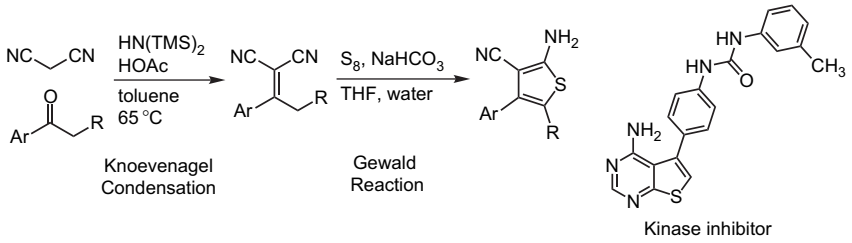
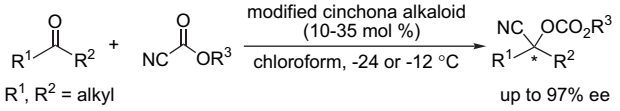
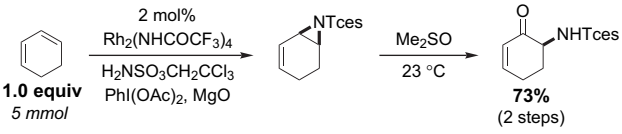
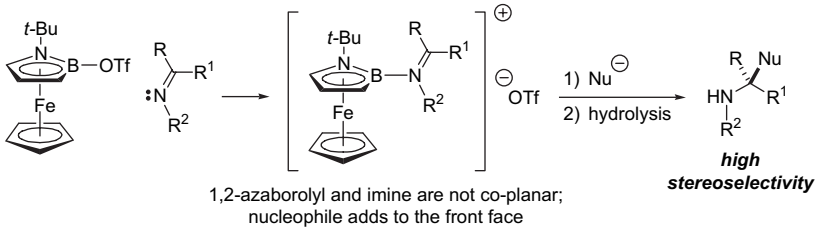


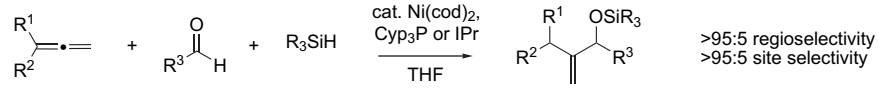


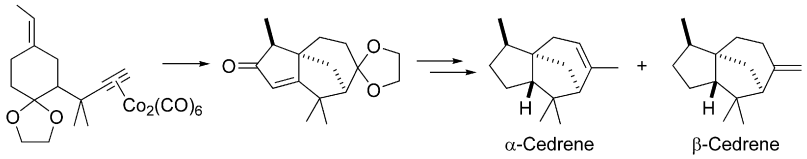


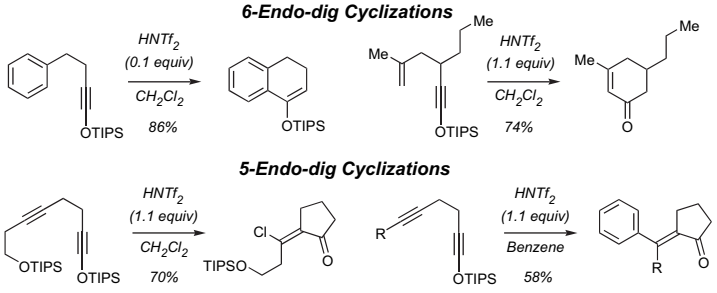


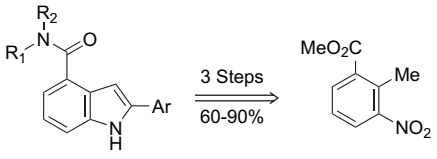


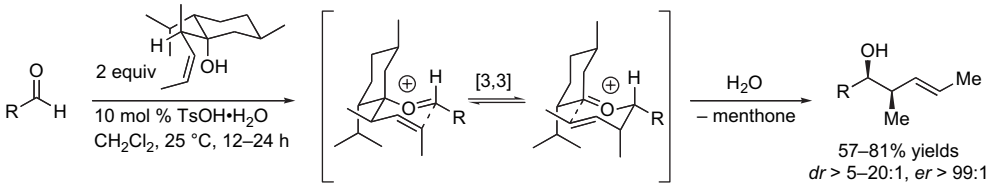


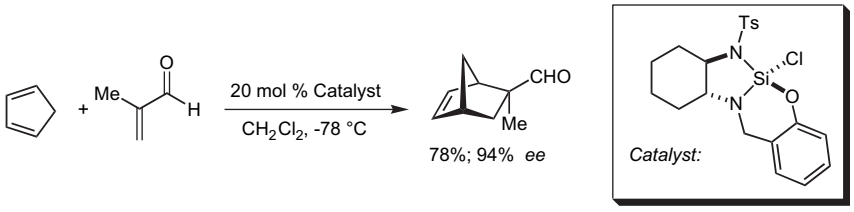


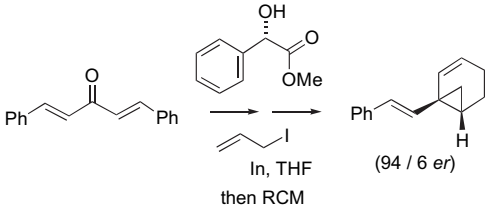




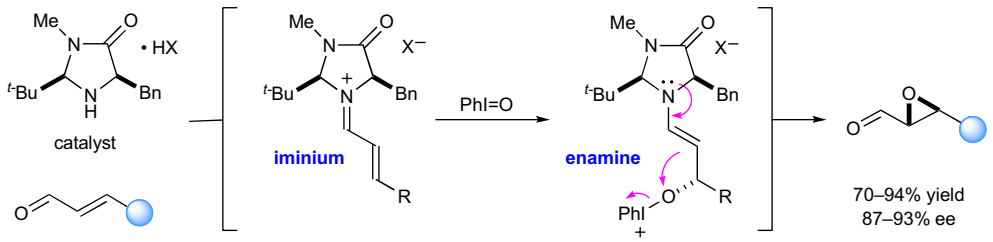


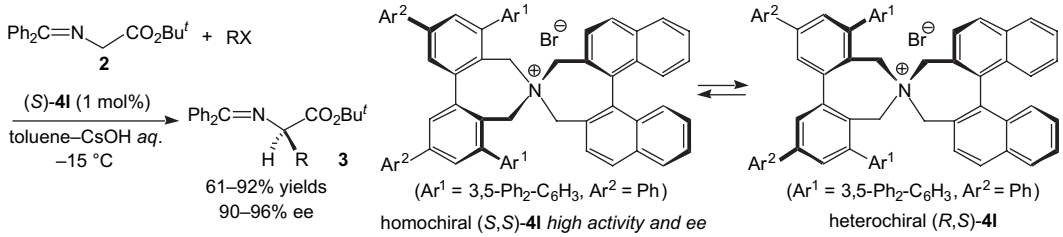


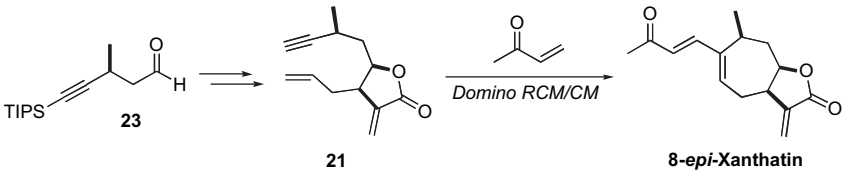


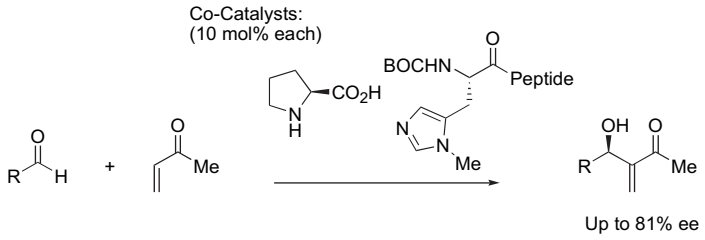


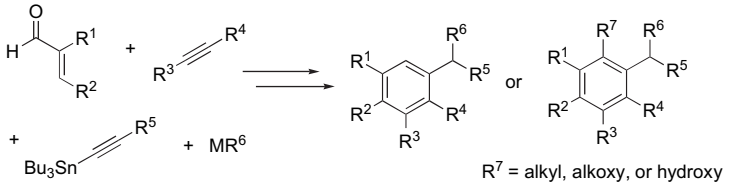
Methyl mandelate has been identified as a simple and inexpensive stoichiometric asymmetric modifier for the homoallyl-cyclopropanation of dibenzylideneacetone. Subsequent Ru-cat. RCM provides rapid entry to enantiomerically enriched 1-styryl-norcarene.

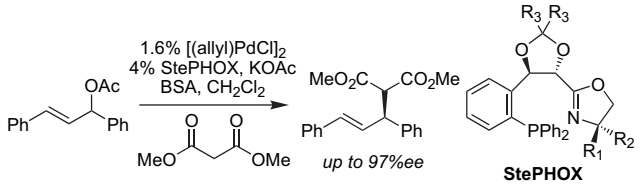


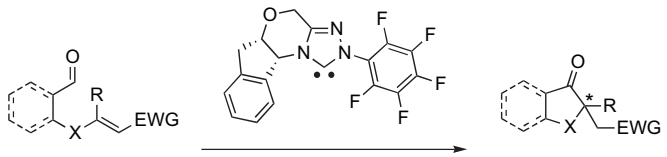


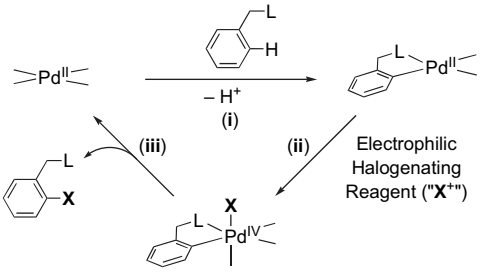


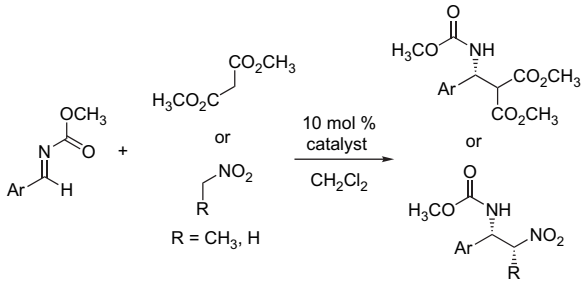


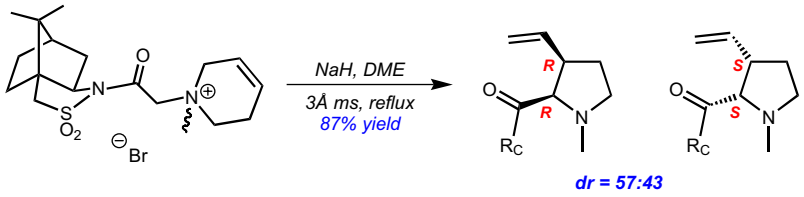


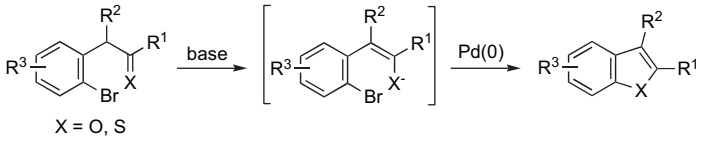












OTHER CONTENT

*Corresponding author
Supplementary data available via ScienceDirect

COVER

The graphic illustrates three components which are essential for the success of the iminium catalyzed epoxidation reported in 'Enantioselective organocatalytic epoxidation using hypervalent iodine reagents'. First (a) the defined architecture of activated iminium species derived from the imidazolidinone catalyst **1** that enables high levels of enantioselectivity in a number of organic transformations. Second (b) the need for the slow release of iodosobenzene from an iminoiodinane source under aqueous conditions to ensure optimal levels of catalyst efficiency in the reported epoxidation, and last (c) the compatibility of organic catalysts with air and water.

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