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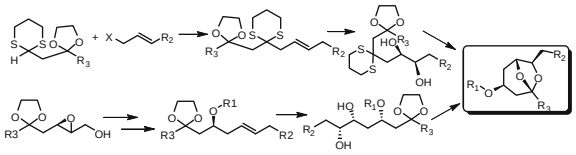
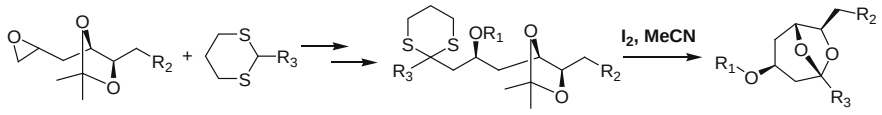
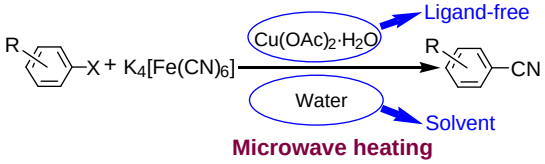
Contents

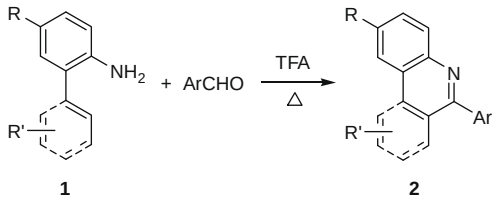
COMMUNICATIONS



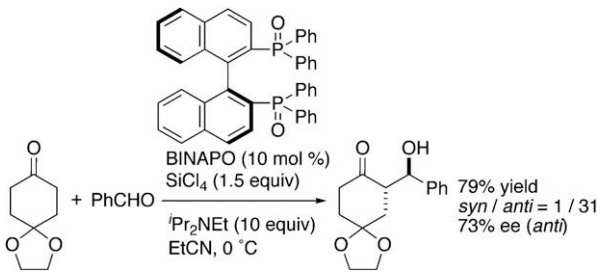
The 3,5,7-trisubstituted dioxabicyclic portion of cyclodidemniserinol trisulfate was synthesized by employing intramolecular ketal formation strategy via a convergent and a linear stereoselective synthesis approach, respectively.

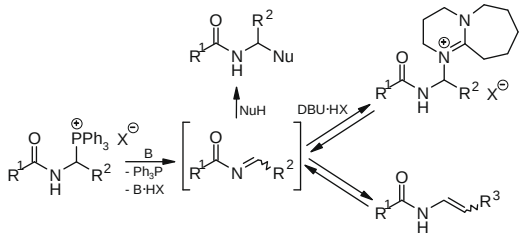


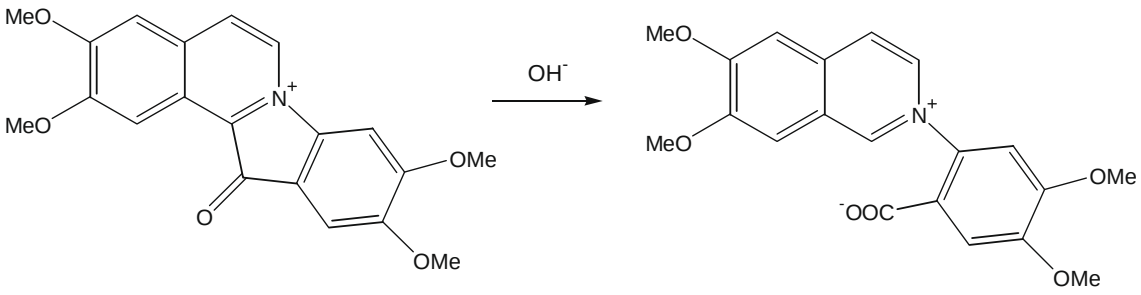


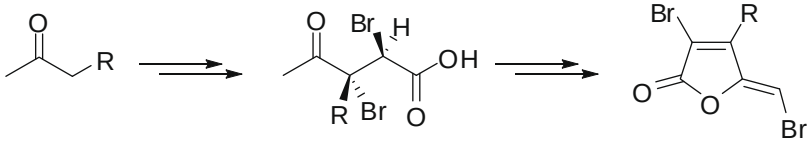


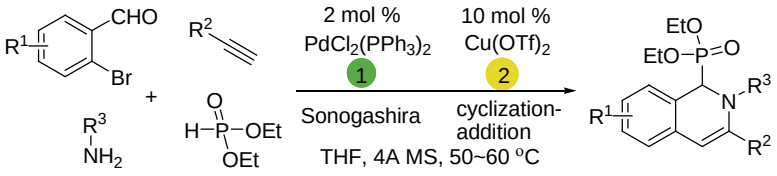
The trifluoroacetic acid-mediated reaction of 2-arylanilines with arylaldehydes has been developed to give a variety of 6-substituted phenanthridines. This is a very simple and convenient one-pot process.

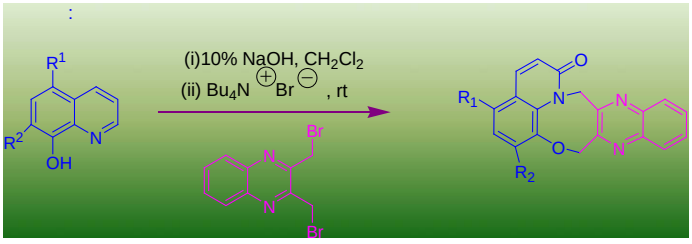


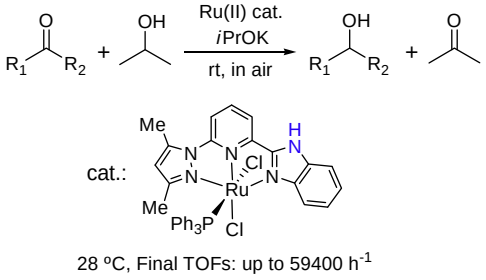


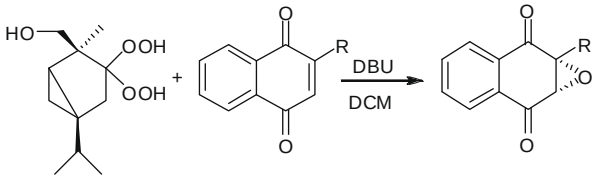


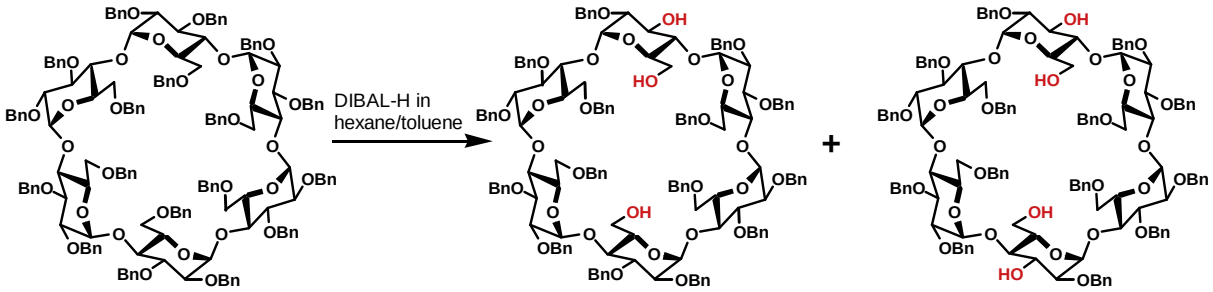


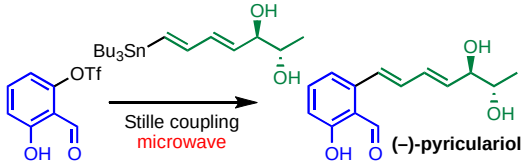




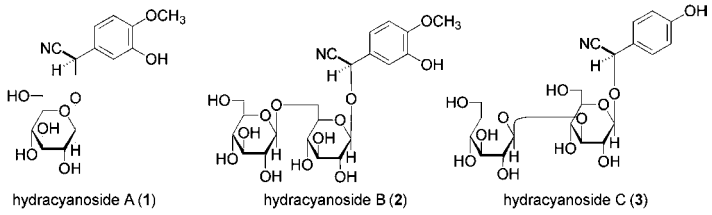




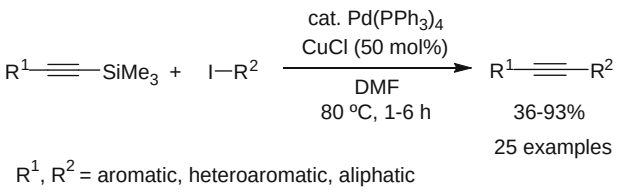




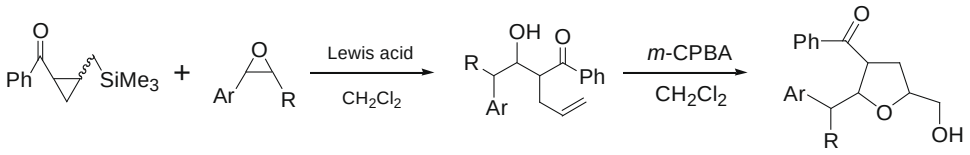
First total synthesis of (−)-pyriculariol, a phytotoxin isolated from rice blast fungus, *Magnaporthe grisea*, was achieved to determine the absolute configuration of the natural product to be 5′*R*,6′*S*. The key step was Stille coupling reaction using microwave irradiation from −78 °C to control the reaction.



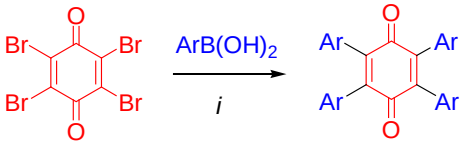
Three new cyanogenic glycosides named hydracyanosides A (**1**), B (**2**), and C (**3**) were isolated from the leaves and/or stems of *Hydrangea macrophylla*. To the best of our knowledge, this is the first scientific report of cyanogenic glycosides from *Hydrangea* plants.

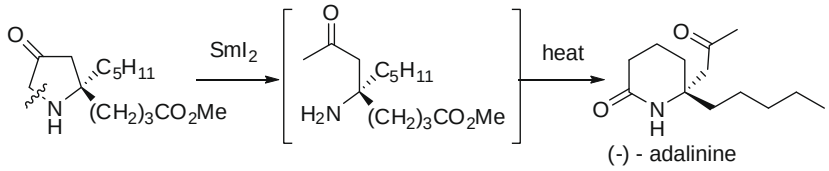


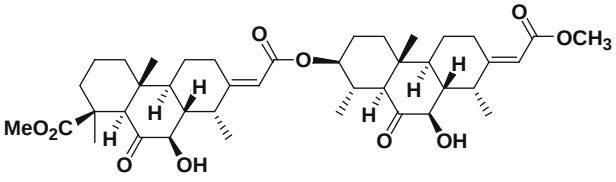
Various unsymmetrical diarylethyne derivatives are synthesized by the palladium/copper-catalyzed cross-coupling reactions of aryl iodides with alkynylsilanes in moderate to excellent yields.

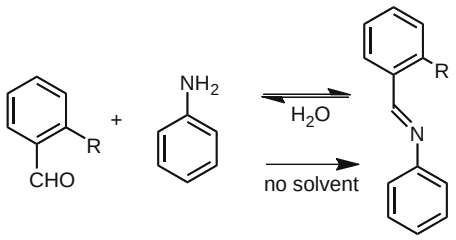


The enolates formed from Lewis acid treatment of (2-trimethylsilylmethyl)cyclopropyl ketones react with in situ oxirane-derived aldehydes to generate aldol products that were easily transformed into 2-hydroxymethyl tetrahydrofurans under oxidation with *m*-chloroperoxybenzoic acid.

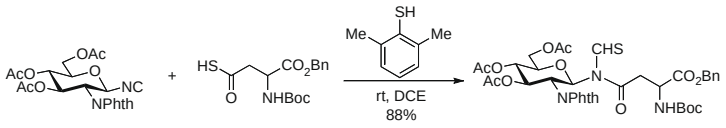


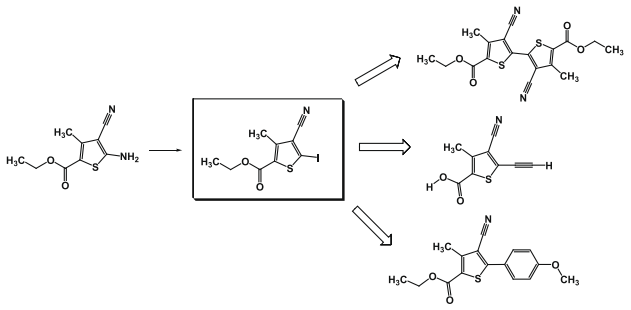


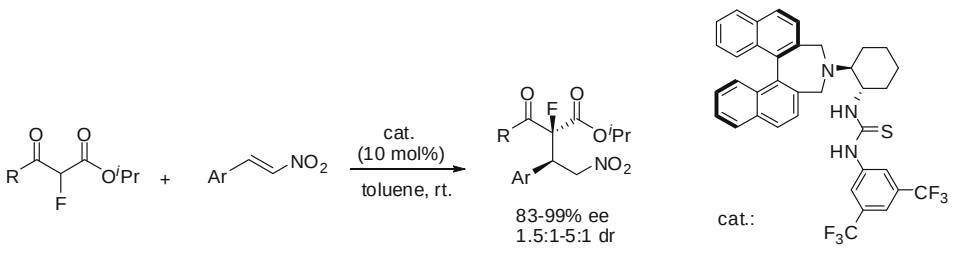


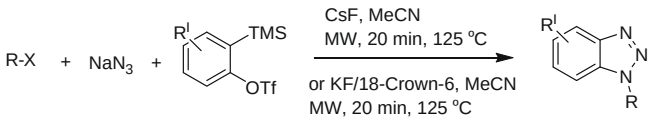


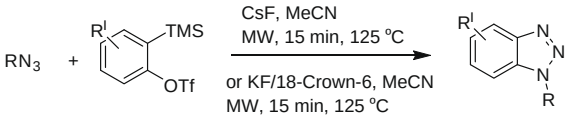
Contradictory reports on imine formation in water have been reinvestigated and clarified.

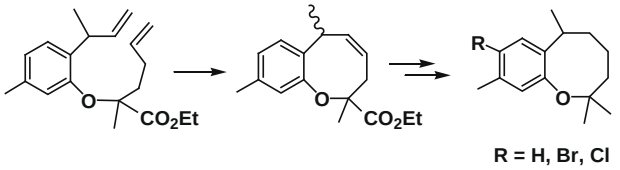












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Supplementary data available via ScienceDirect

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