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Tetrahedron Letters

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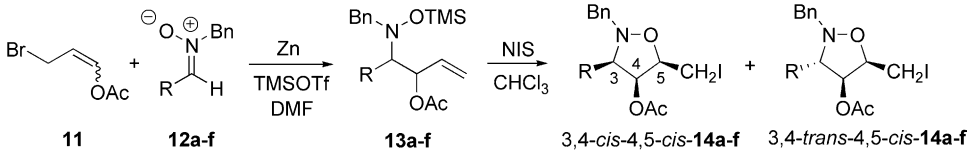
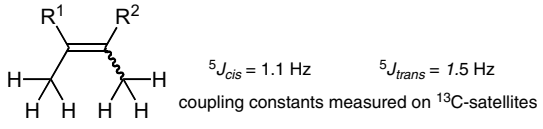
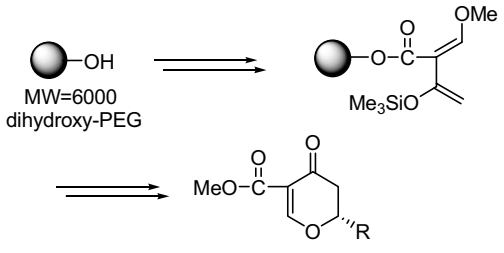
Contents

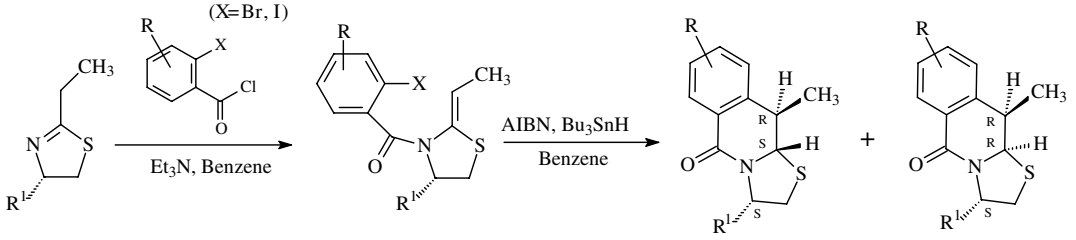
COMMUNICATIONS

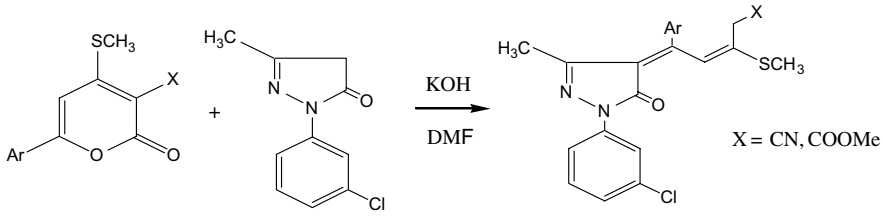


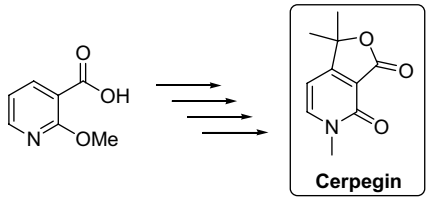
11 **12a-f** **13a-f** 3,4-*cis*-4,5-*cis*-**14a-f** 3,4-*trans*-4,5-*cis*-**14a-f**



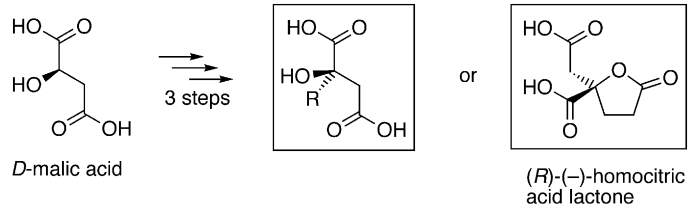


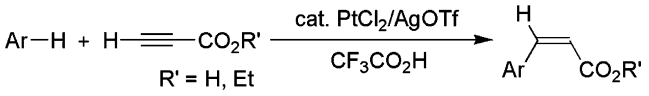




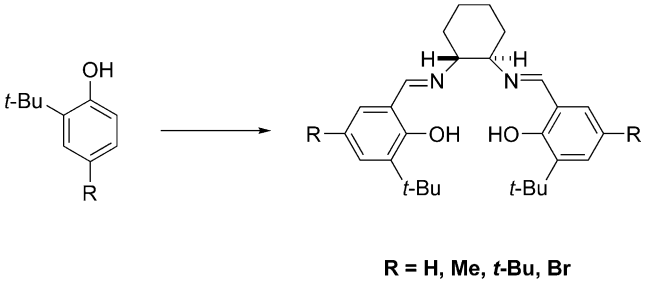


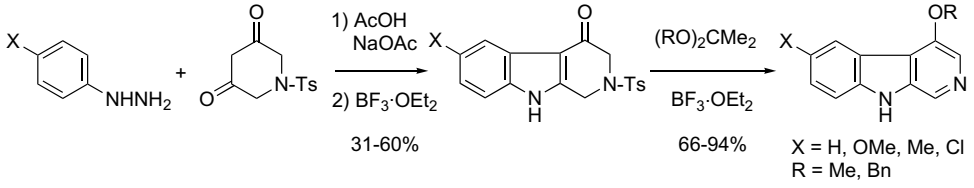
Cerpegin was synthesized through 'one-pot' four synthetic steps in a 71% overall yield.

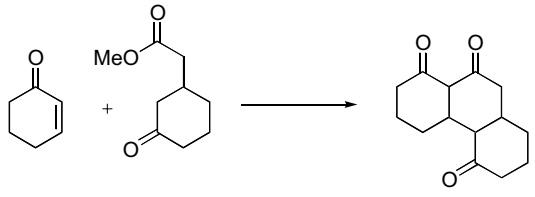


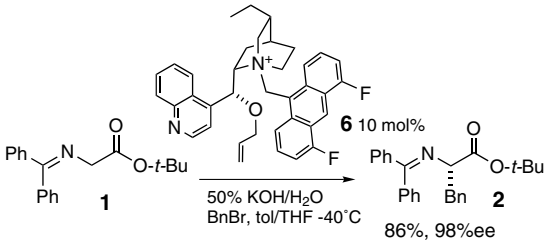


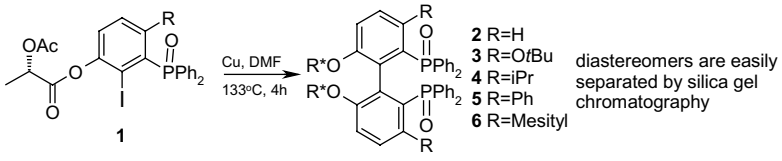
$PtCl_2$/AgOTf-catalyzed hydroarylation of propiolic acids and their esters proceeded effectively and selectively to give (2*Z*)-cinnamic acid derivatives in good to high yields.

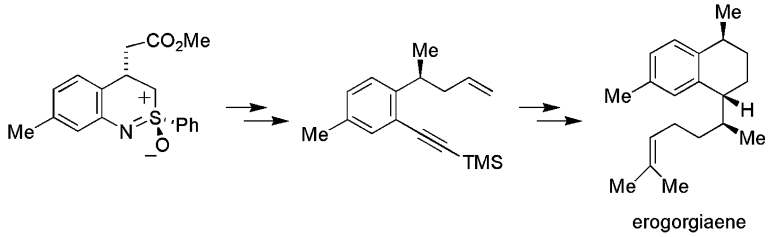




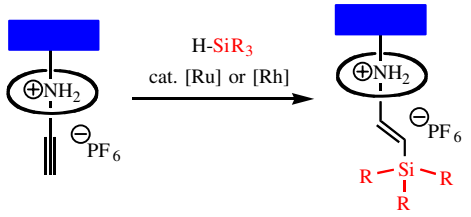


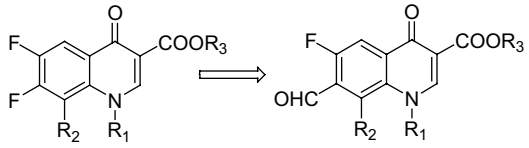


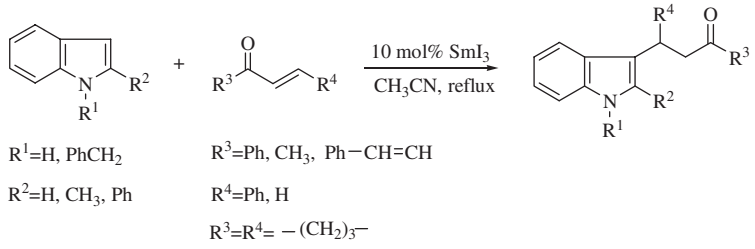




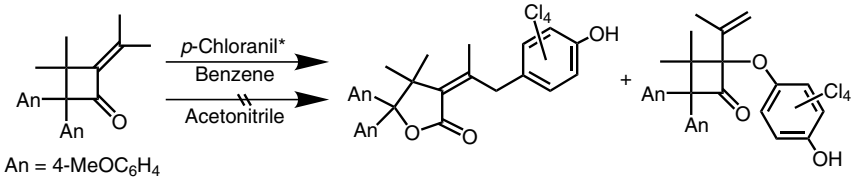
An enantiomerically pure benzothiazine was converted to a known precursor to the anti-tubercular natural product erogorgiaene in good overall yield.

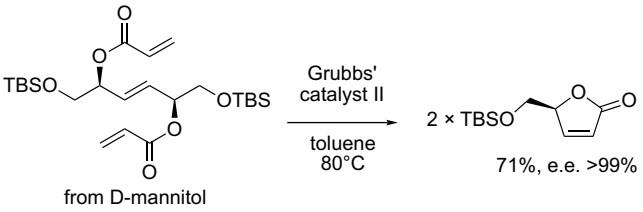


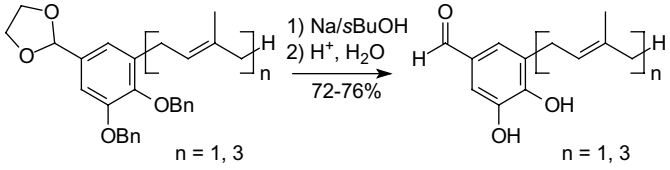


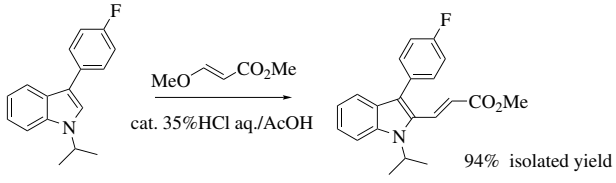


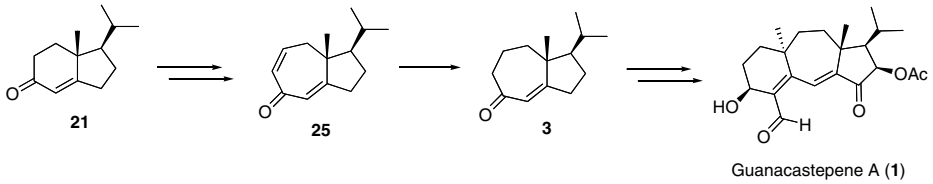
The SmI_3-catalyzed reaction of indoles with electron-deficient olefins generated the corresponding Michael adducts in high yields. The substitution on the indole nucleus occurred exclusively at the 3-position and *N*-alkylation products have not been observed.



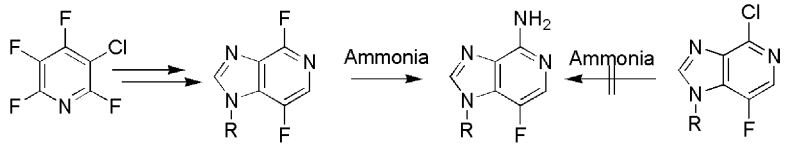






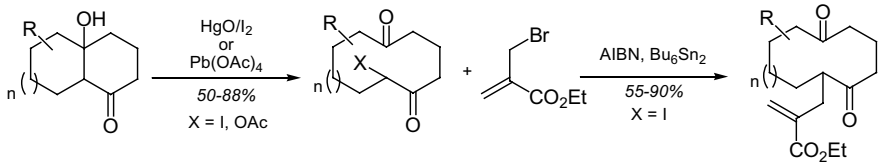


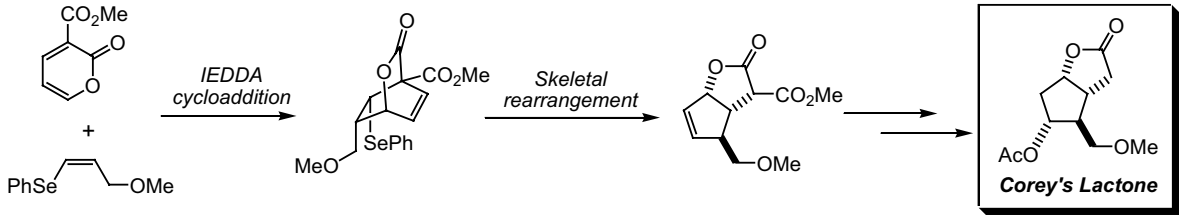
A sequence which accomplishes the preparation of cycloheptadienones by ring-expansion of fused cyclohexenones has been developed and applied to the improved synthesis of a key intermediate in the total synthesis of guanacastepene A.

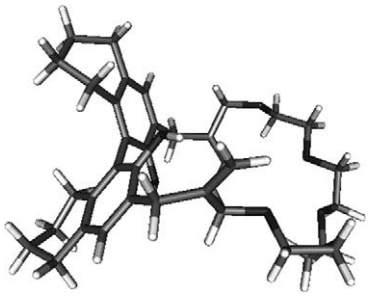


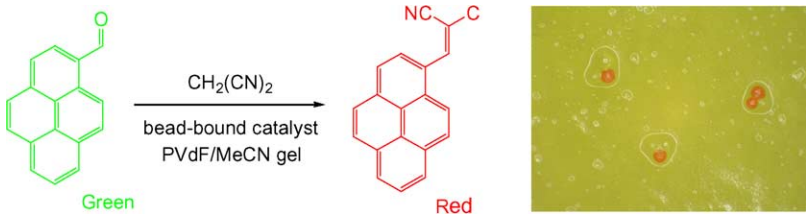
R =β-D-ribofuranosyl, 2-C-methyl-β-D-ribofuranosyl, 3-deoxy-β-D-ribofuranosyl

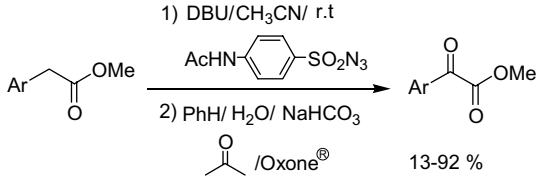
3,6-Difluoro-3-deazapurine ribonucleoside analogs underwent direct S_NAr amination reactions with liquid ammonia to give 3-fluoro-3-deazaadenosine analogs in excellent yield; in contrast, 6-chloro-3-fluoro-3-deazapurine nucleosides were inert.

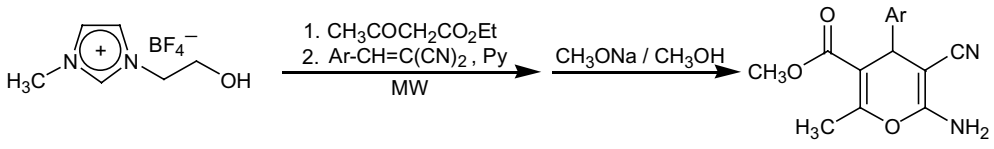


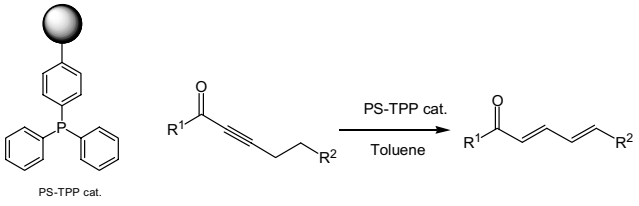












A green, simple and effective polymeric organocatalytic system, polymer-supported triphenylphosphine (PS-TPP), for the stereoselective isomerization of α,β-ynones to (*E*,*E*)-α,β-γ,δ-dienones is reported here. The catalyst, PS-TPP could be recovered by simple filtration and reused several times with high activity.

OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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