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Tetrahedron Letters

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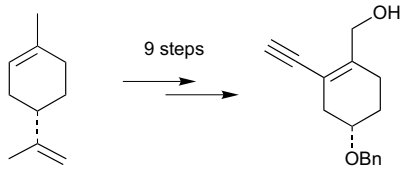
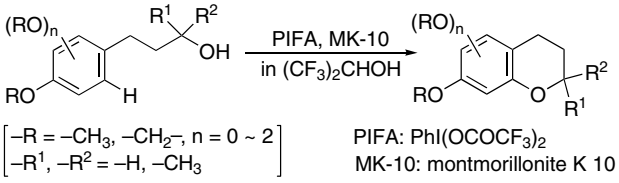
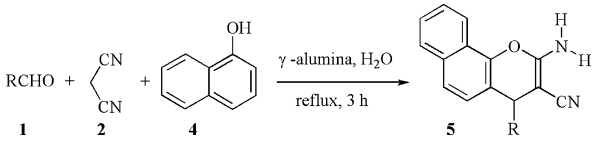
Contents

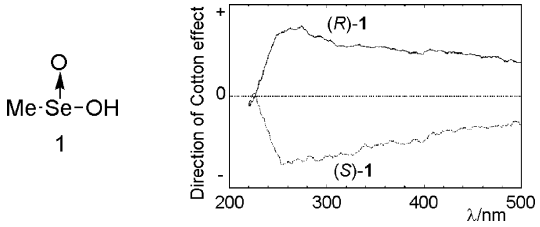
COMMUNICATIONS

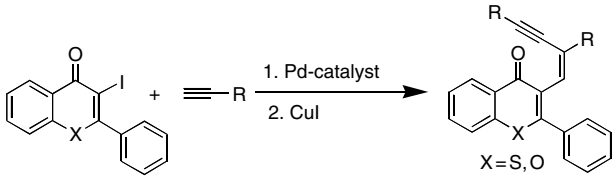




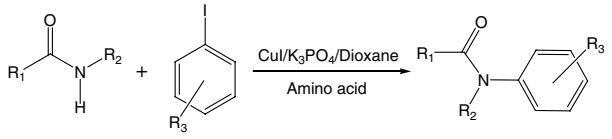


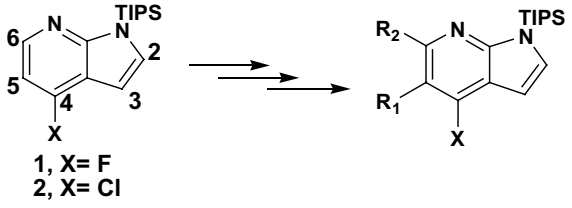
2-Amino-2-chromenes were obtained in excellent yield and selectivity simply by mixing malononitrile, α-naphthol and aromatic aldehydes in water in the presence of basic alumina as reusable catalyst.

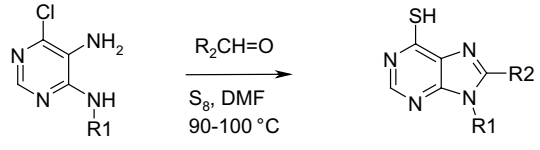




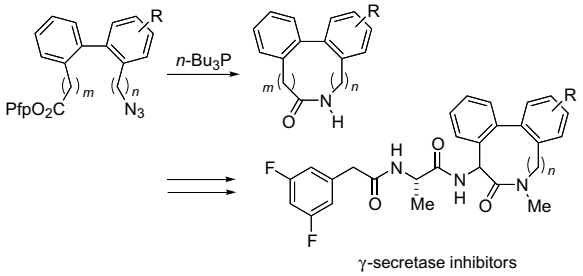
Sequential palladium catalysis is utilized for the stereocontrolled synthesis of enynes in a simple synthetic operation.

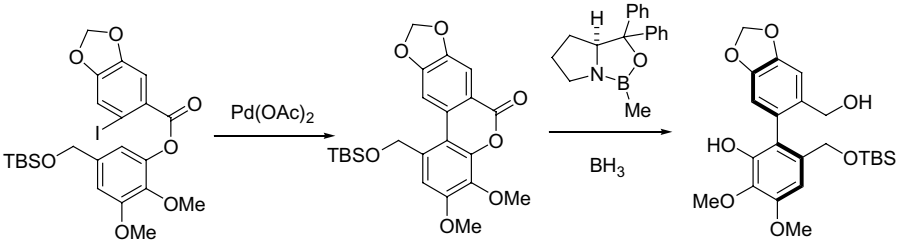


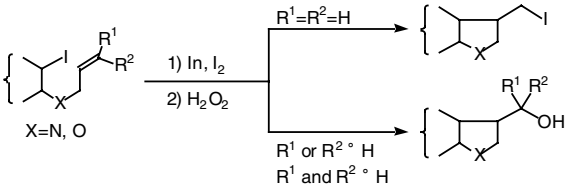


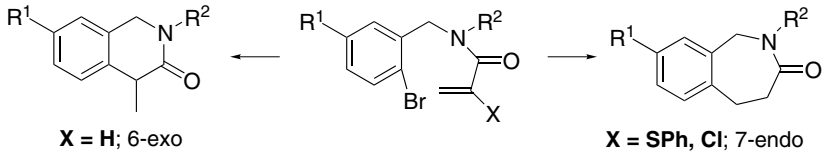


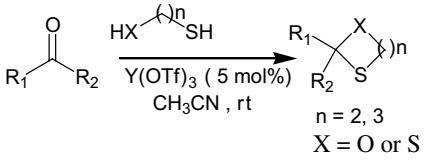
One-pot procedure

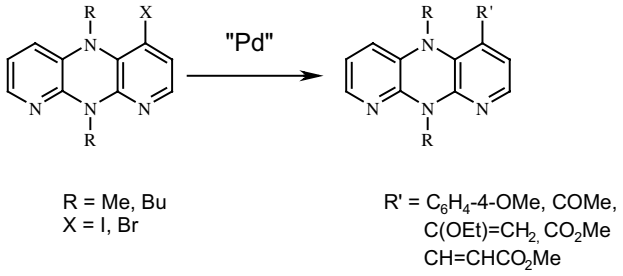


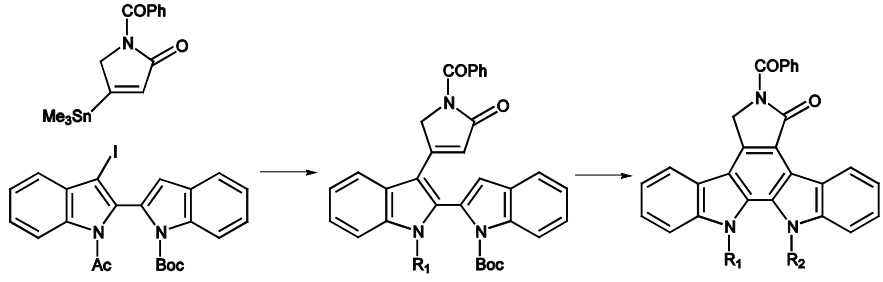




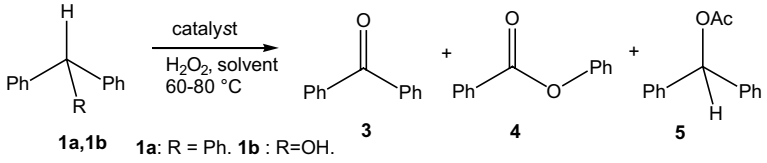


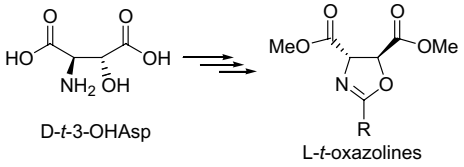




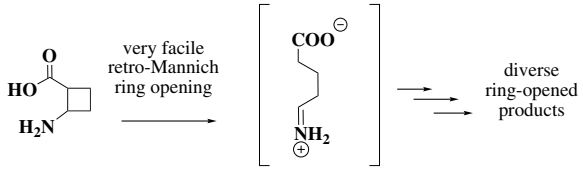


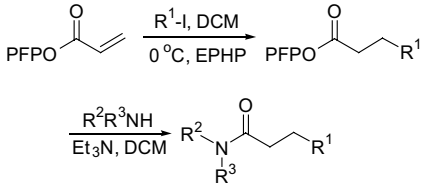
A completely regioselective synthesis of glycosidic acceptors for indolopyrrolo[2,3-*a*]carbazole alkaloids is reported.



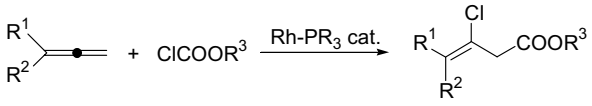


An efficient, stereoselective synthetic strategy to D-*threo*-3-hydroxyaspartic acid was developed. Starting from D-*threo*-3-hydroxyaspartic acid, L-*threo*-oxazolines can be stereoselectively synthesized.

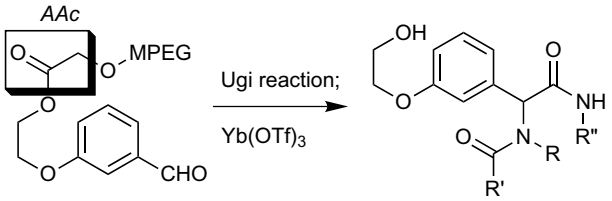




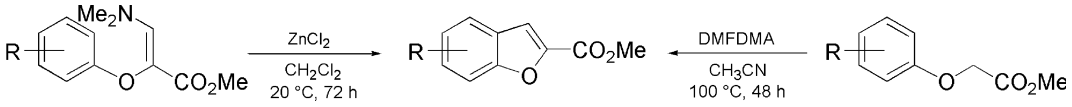
Pentafluorophenyl (PFP) acrylate, a stable compact bifunctional scaffold undergoes rapid *N*-ethylpiperidinium hypophosphite (EPHP) mediated radical addition to yield a variety of active esters susceptible to further functionalization by aminolysis.

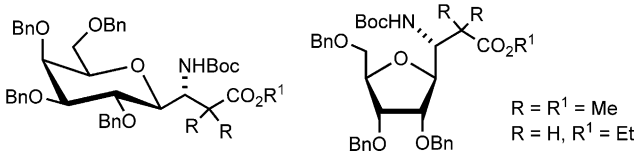


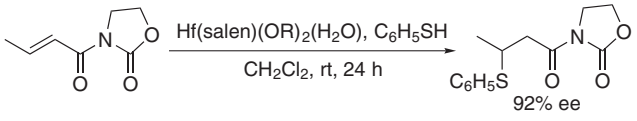
Rhodium phosphine complexes catalyze addition of chloroformates to terminal allenes to afford β-chloro-β,γ-unsaturated esters.



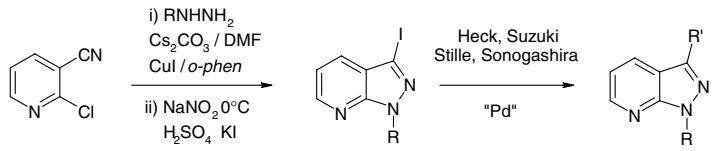
An alkoxyacetyl group (AAc) group was found to be an efficient linker for high-throughput synthesis of small molecules on a soluble polymer support. The preparation, protocols for loading and releasing of small molecules, and an application to the Ugi four-component coupling reaction are reported.

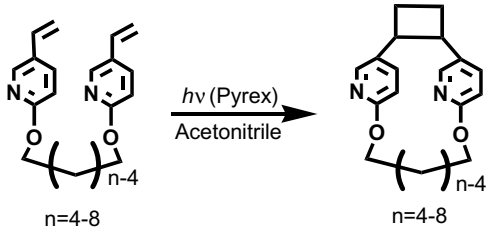


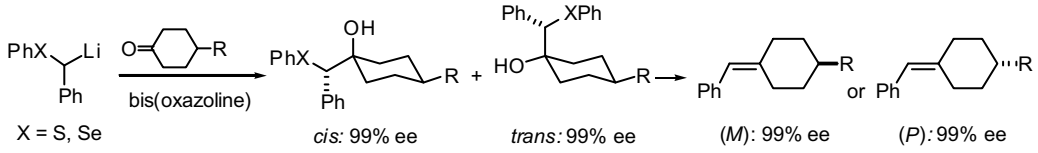


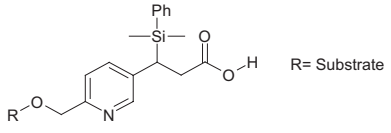


Seven-coordinate Hf(salen) complex can be used as catalyst for asymmetric 1,4-addition of thiol.

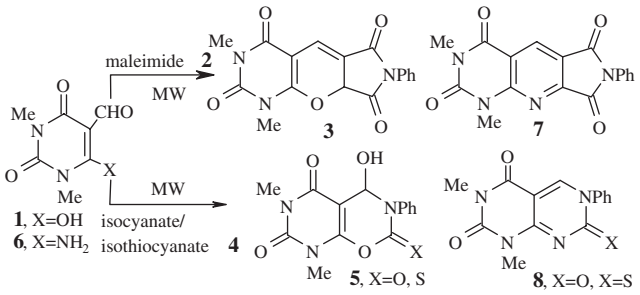


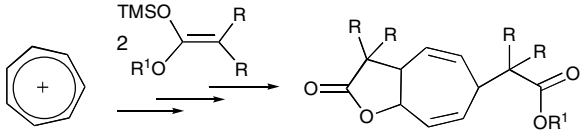




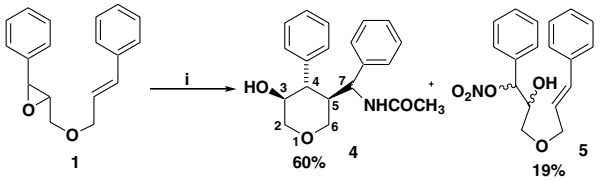


The synthesis of a novel fluoride cleavable linker is described.



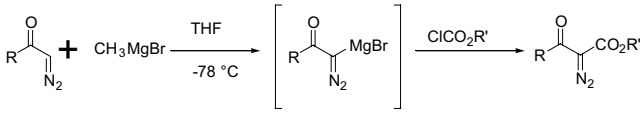


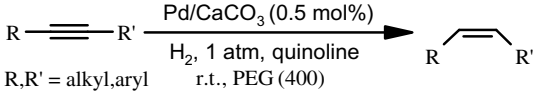
Tropylium tetrafluoroborate reacts sequentially with 2 equiv of (trimethylsilyl)ketene acetals to give 5,7-fused γ-lactones via $Cr(CO)_3$ triene complexes.



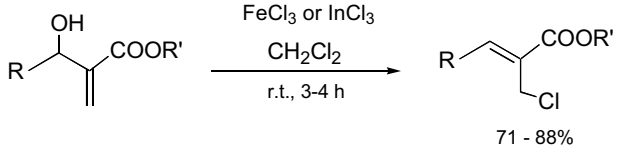
i) CAN (0.5 eq.), dry CH_3CN, argon, RT, 16 h

Cerium(IV) ammonium nitrate in substoichiometric amounts, promotes the intramolecular cyclization of epoxypropyl cinnamyl ethers to the corresponding 3,4,5-trisubstituted tetrahydropyran derivatives in moderate to good yields.

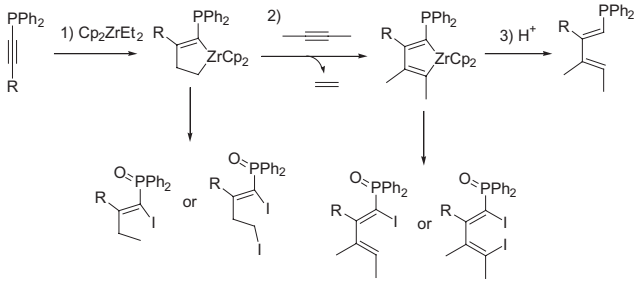


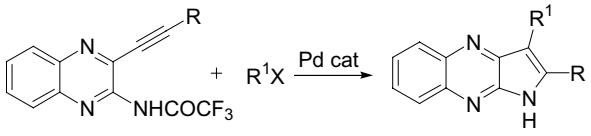


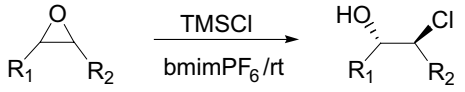
Lindlar's catalyst ($Pd/CaCO_3$) in PEG (400) has been found to be the most reusable reaction medium for selective reduction of alkynes to *cis*-olefins. The catalyst and PEG were recycled five times without loss of activity.

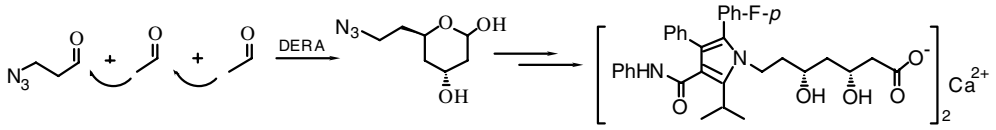


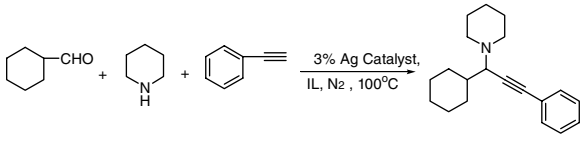
R = alkyl or aryl; R' = alkyl

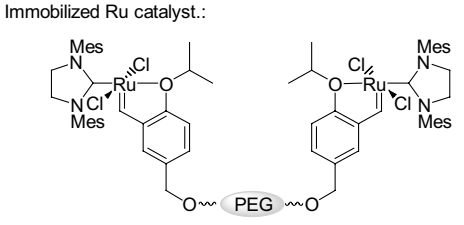


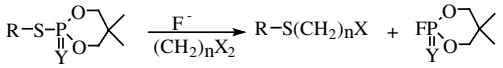












R = sugar n = 1, 2; X = Cl, Br; Y = S, O

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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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