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Tetrahedron Letters

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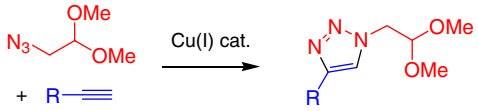
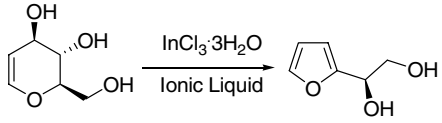
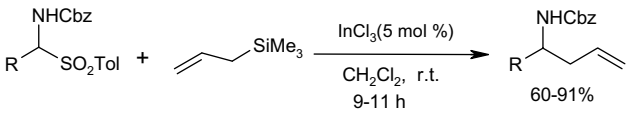
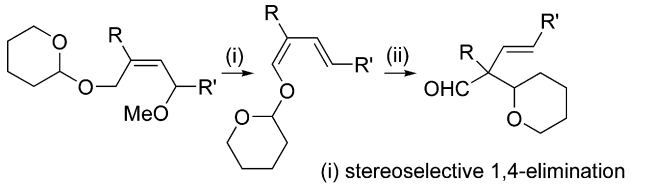
Contents

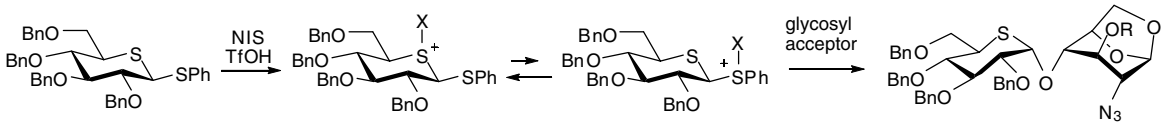
COMMUNICATIONS

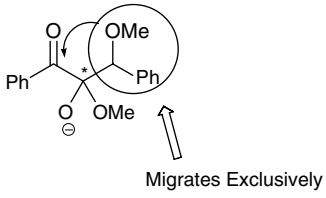




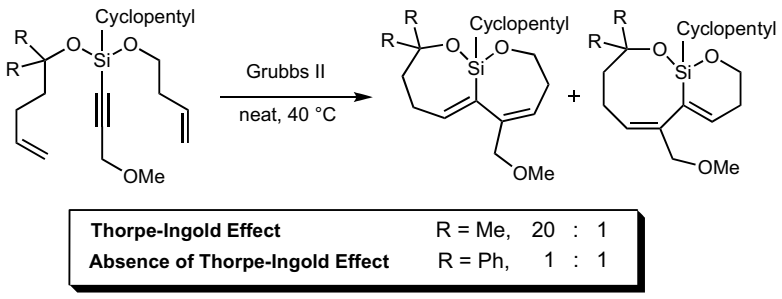


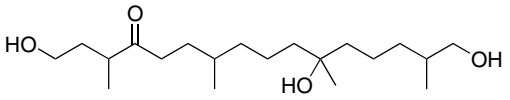




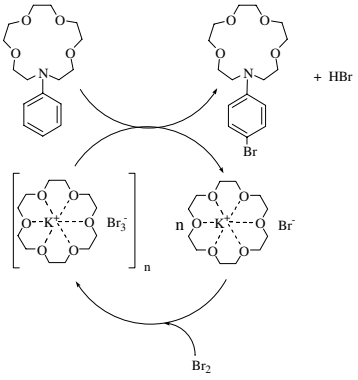


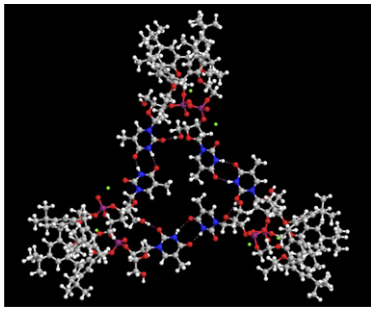
This Letter describes an expeditious regiospecific and stereoselective approach to tertiary α-hydroxyesters via the one pot tandem catalytic oxidation/benzilic ester rearrangement of acyclic α-hydroxyketone substrates. The mechanism of this reaction (including the diastereoselectivity) was studied in some detail.

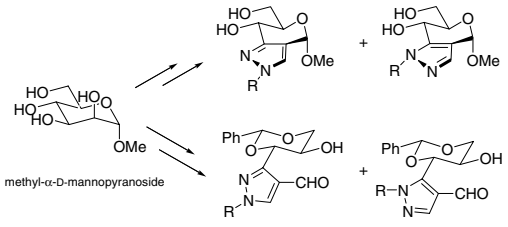


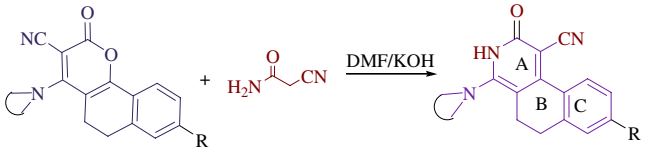


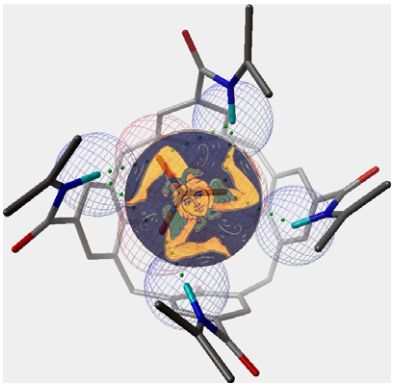
the natural product is in equilibrium with
its hemiacetal and may be a mixture of two isomers

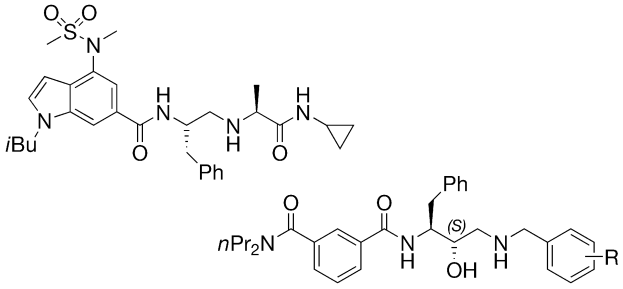




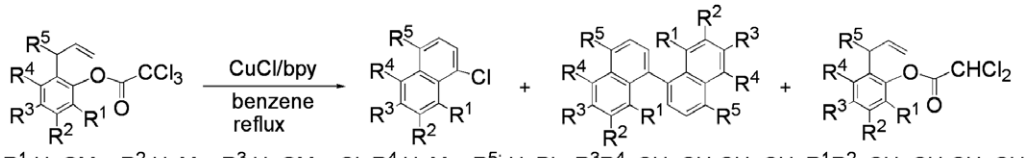




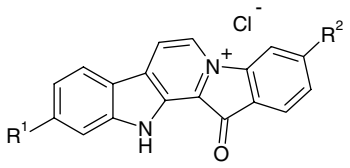




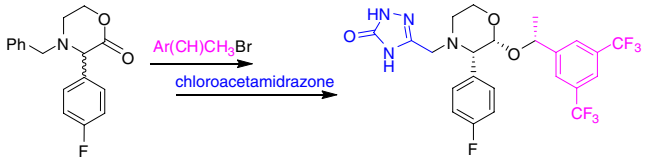
The synthesis and evaluation of potential β-secretase inhibitors are presented.



R^1:H, OMe; R^2:H, Me; R^3:H, OMe, Cl; R^4:H, Me; R^5: H, Ph; R^3R^4: CH=CH-CH=CH; R^1R^2: CH=CH-CH=CH

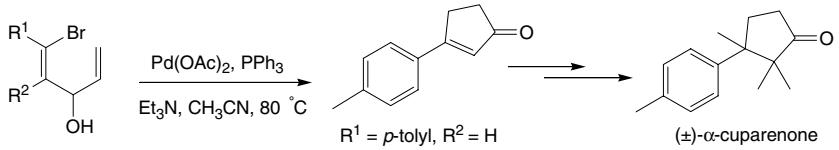


R^1=H, R^2=Br - 3-bromofascaplysin
R^1=Br, R^2=H - 10-bromofascaplysin
R^1=Br, R^2=Br - 3,10-dibromofascaplysin



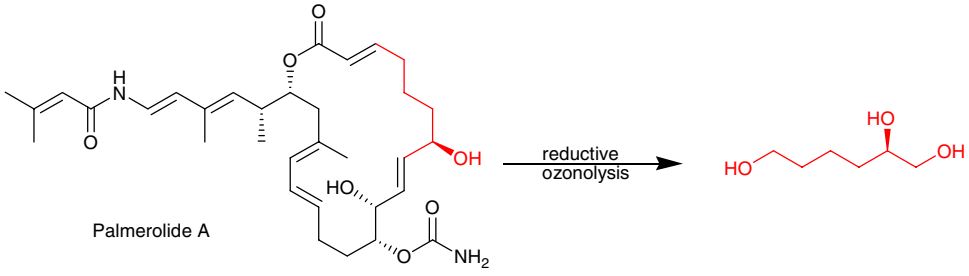
Aprepitant 1

A convergent approach to enantiomerically pure aprepitant a potent orally active antagonist of the human neurokinin-1 (NK-1) receptor, is described.

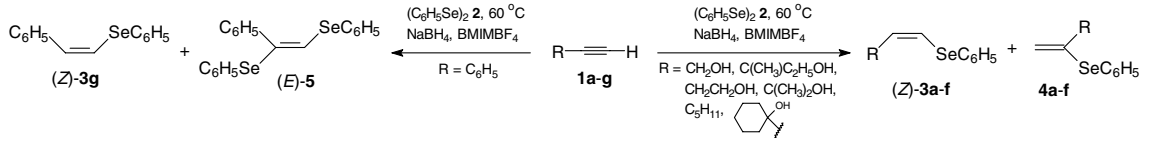


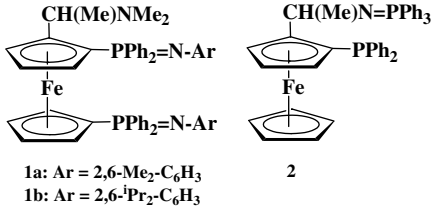
R^1 = *p*-tolyl, R^2 = H

(±)-α-cuparenone

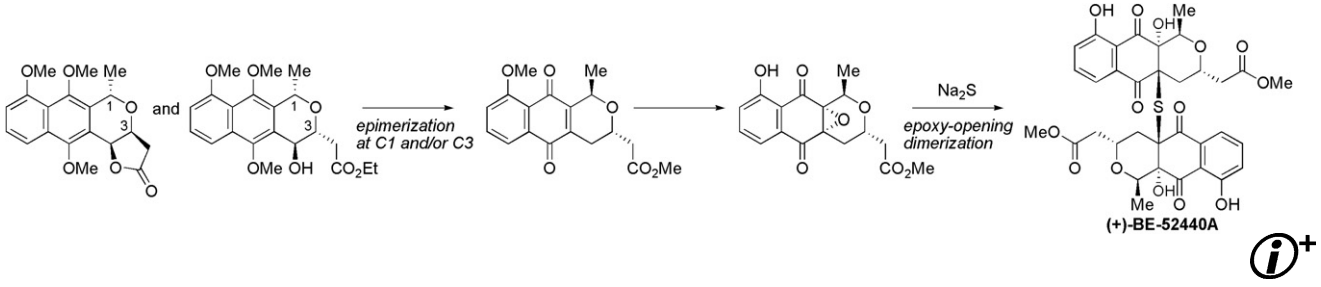


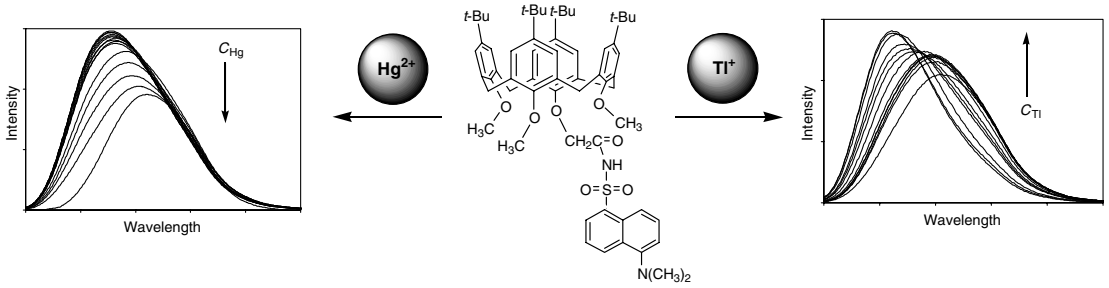
Palmerolide A

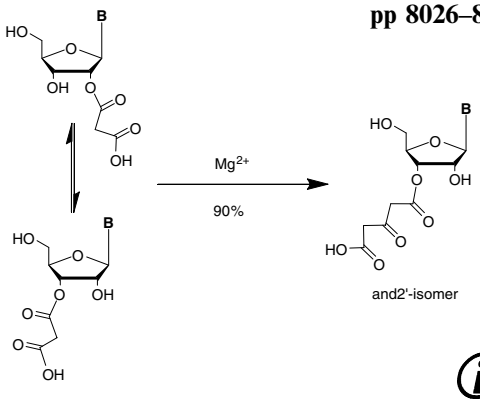




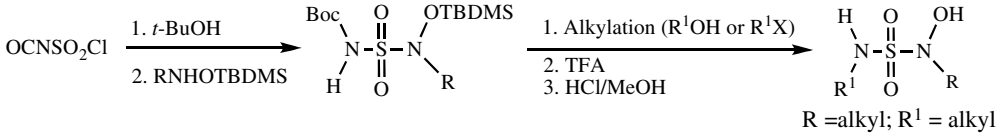
Chiral (iminophosphoranyl)ferrocenes are highly efficient ligands in ruthenium-catalyzed asymmetric cyclopropanation of olefins.



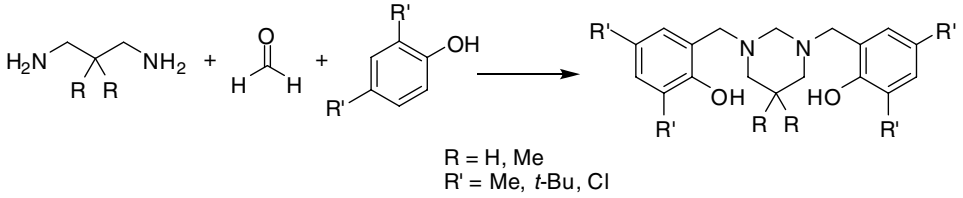




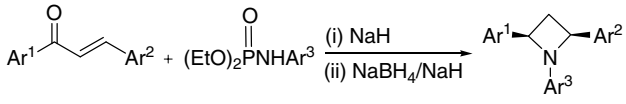
Nucleoside mediated Claisen condensation of malonates is reported.

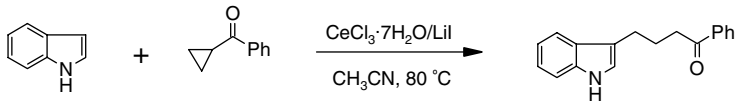


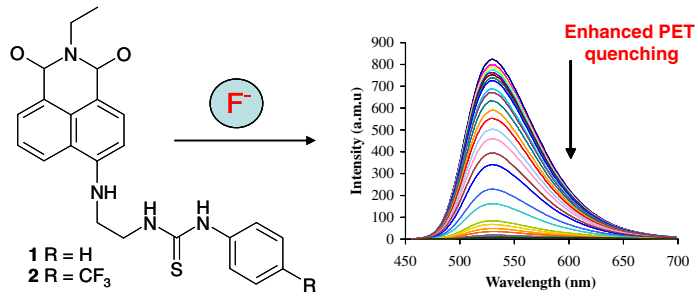
A general methodology for the synthesis of *N*-hydroxysulfamides that allows stepwise introduction of various alkyl groups with control on the sulfamide nitrogens is reported.

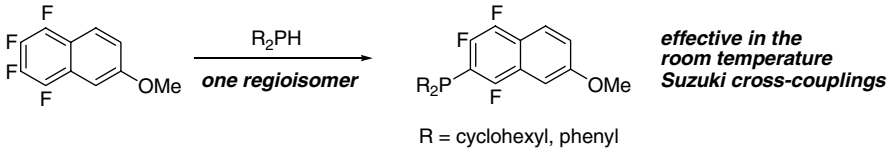


Mannich condensations are used to prepare N-substituted hexahydropyrimidines.

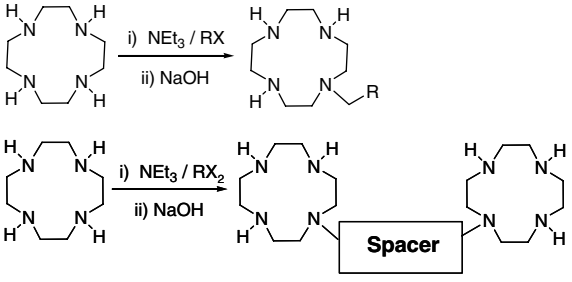


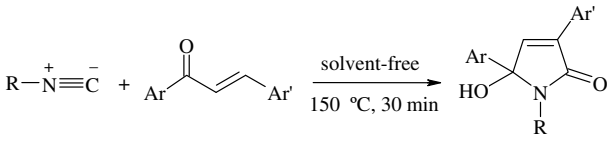


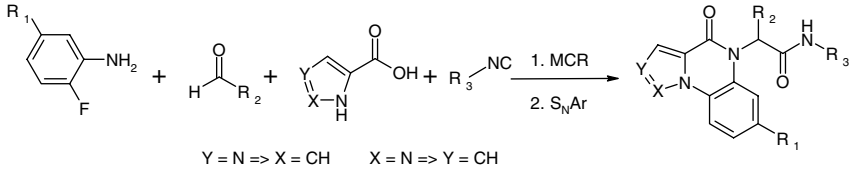


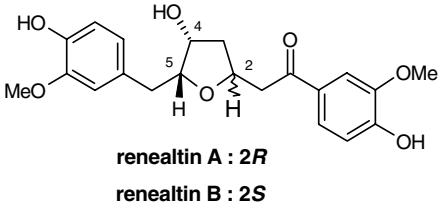


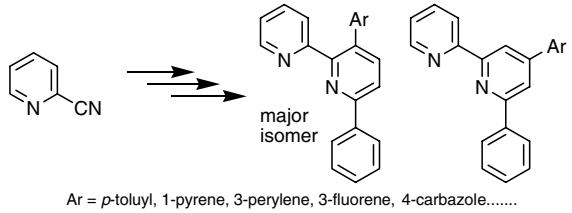
Polyfluorinated phosphine ligands can be obtained by regioselective nucleophilic aromatic substitution on tetrafluoronaphthalene derivatives. The ligand efficiency has been demonstrated in the room temperature Suzuki coupling reactions of aryl bromides and aryl boronic acids. The described process allows access to a new class of highly versatile fluorinated phosphine ligands.

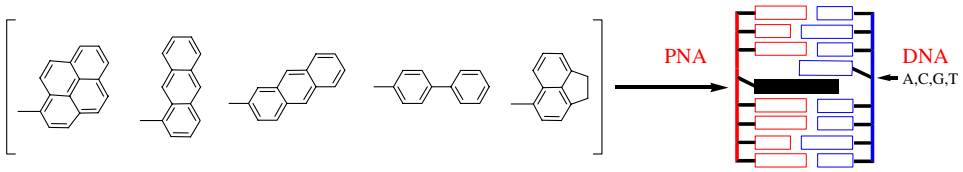




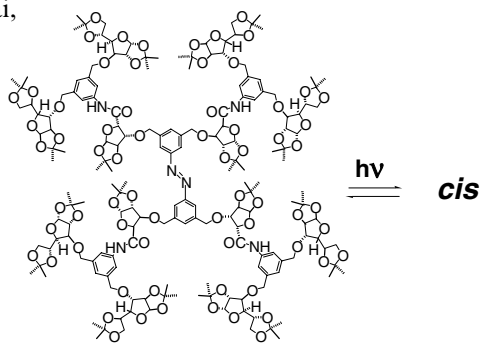








Polycyclic aromatic hydrocarbons possess favorable characteristics as universal bases in PNA·DNA double helices.



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*Corresponding author
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