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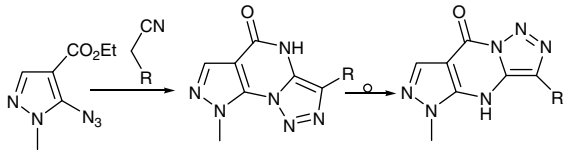
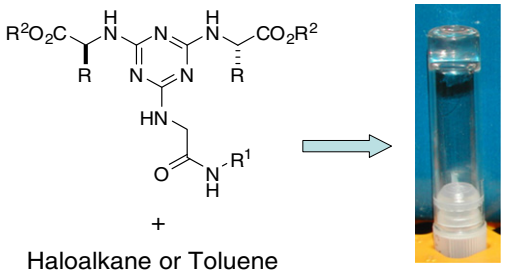
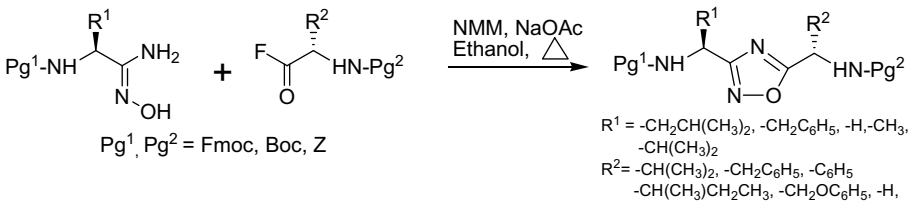
Contents

COMMUNICATIONS

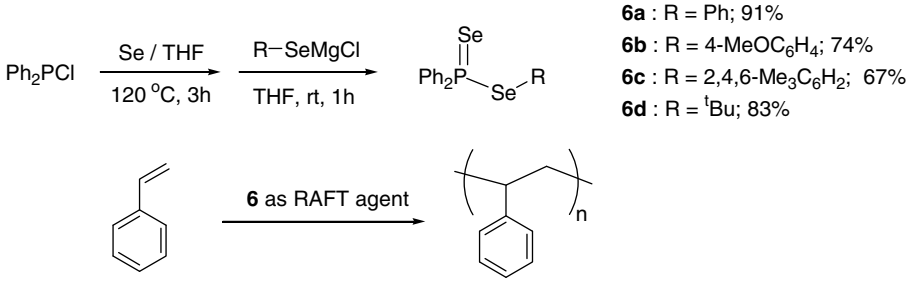


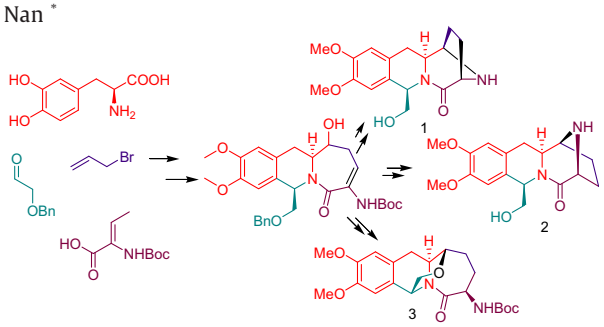
Derivatives of the new ring system pyrazolo[3,4-*d*][1,2,3]triazolo[1,5-*a*]pyrimidine were synthesized from the corresponding angular isomers, through a Dimroth rearrangement, in quantitative yields.



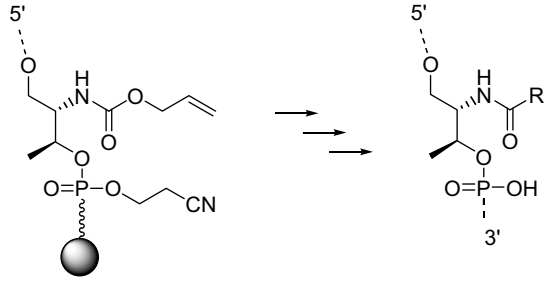


A new class of 1,2,4-oxadiazole-linked orthogonally urethane-protected dipeptide mimetics has been synthesized by reaction between an N-protected amino acyl fluoride and an amino acid-derived amidoxime.

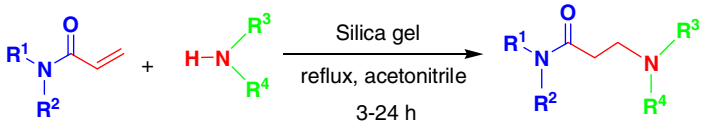




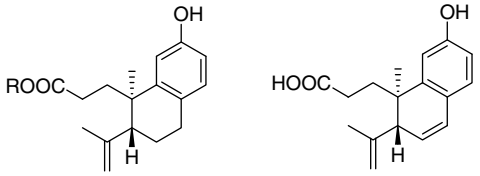
Three novel tetrahydroisoquinoline tetracyclic core frameworks were synthesized mainly employing a ring-closing metathesis (RCM)-mediated cyclization and a subsequent intramolecular SN_2 N(O)-substituted reaction.



We have developed a facile but versatile method to introduce functional molecules into DNA on a CPG support by means of allylic protection.

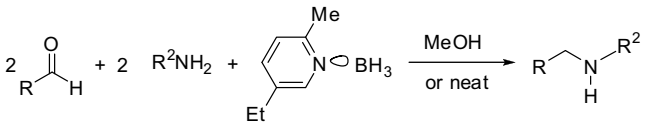


A novel method to synthesize β-amino amide has been developed via conjugated addition of amines to bulky α,β-unsaturated amides promoted by silica gel.

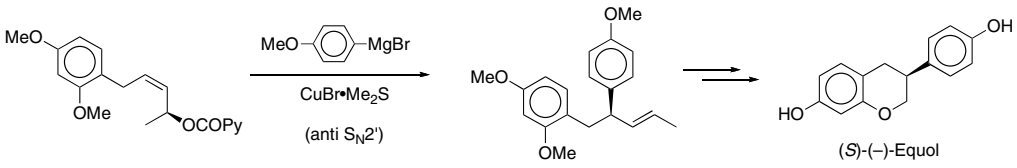


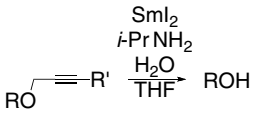
1 R = H
2 R = CH_3

3

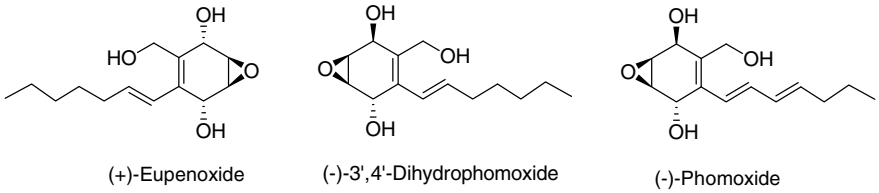


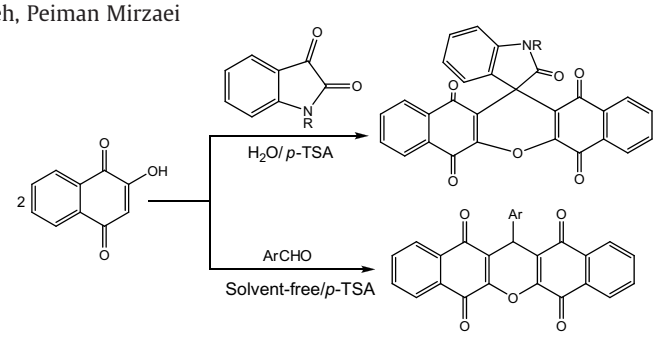
We report a new amine borane, 5-ethyl-2-methylpyridine borane complex (PEMB), useful for reductive aminations of ketones and aldehydes in methanol or neat. Two of the three hydrides on PEMB are effectively utilized maximizing the economy of the reagent.

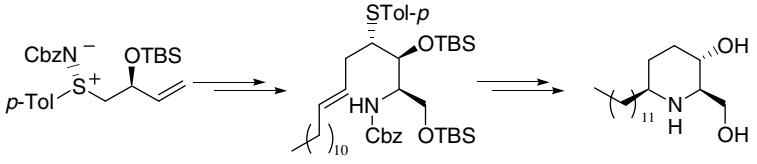




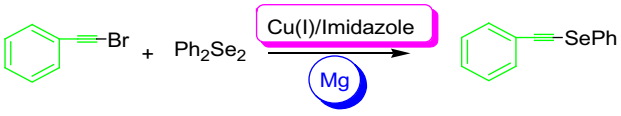
R = alkyl, aryl
R' = H, trialkylsilyl, trialkylgermanium

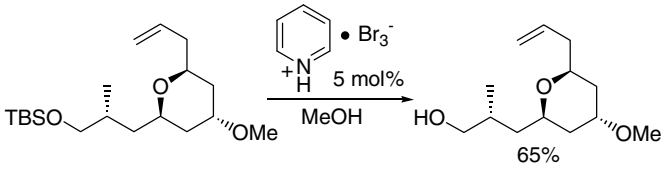




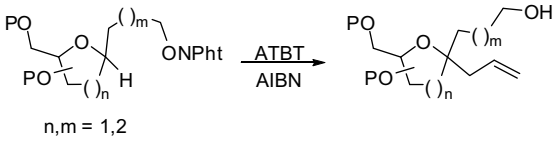


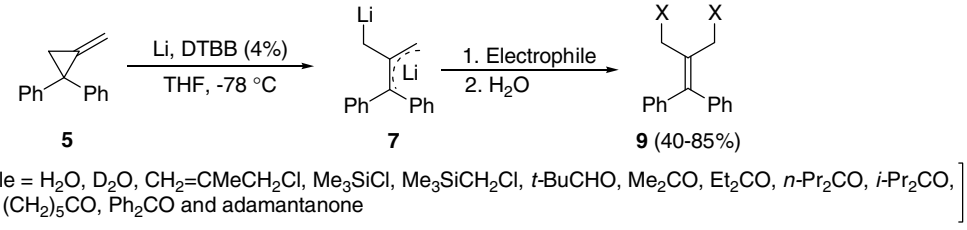
The synthesis of *N*-Cbz sulfilimines from the corresponding sulfoxide using the Burgess reagent and their utility as intramolecular nucleophiles is demonstrated by the synthesis of (+)-desoxoprosophylline.

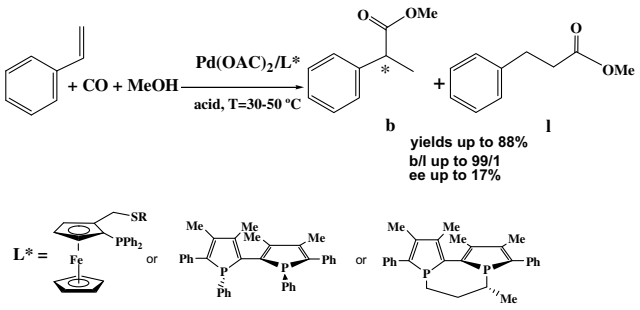


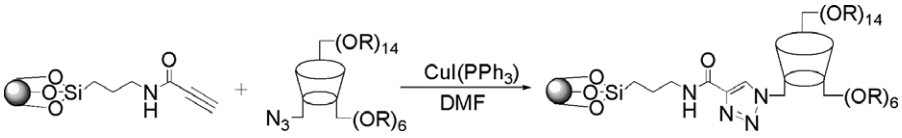


Chemoselctive deprotection of TBS and TES ethers with $Py{\cdot}Br_3$ in MeOH in the presence of other functional groups is described.

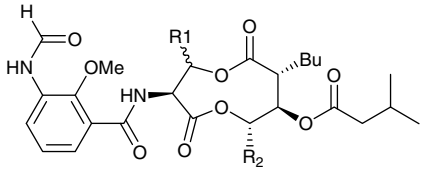




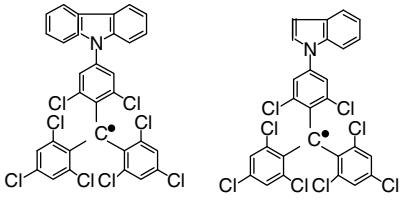


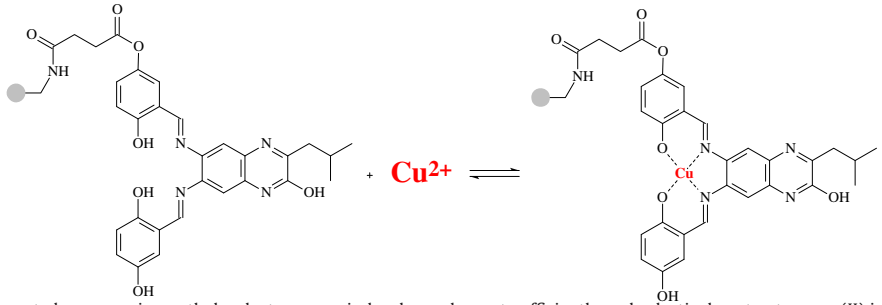


Chiral stationary phases are synthesized via Click chemistry and show good enantioselectivity in capillary electrochromatography.

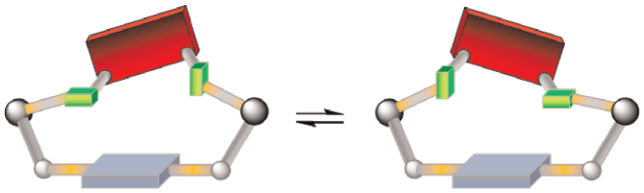


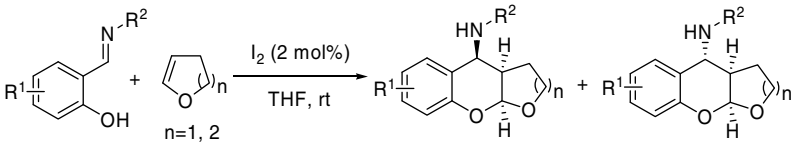
1a: R_1 = (R)-Me, R_2 = H
1b: R_1 = H, R_2 = Me
1c: R_1 = (S)-Me, R_2 = H
1d: R_1 = H, R_2 = H





2-Quinoxalinol salen ligands supported on an aminomethyl-polystyrene resin has been shown to efficiently and selectively extract copper(II) ions from organic solvents within 30 min under a variety of experimental conditions. Mild reducing conditions allow for metal ion recovery.





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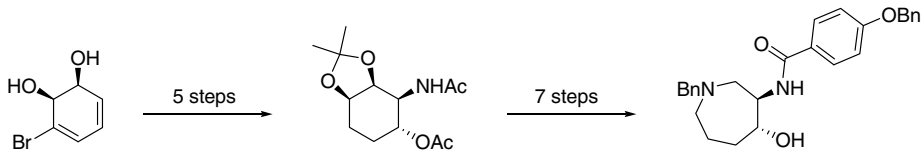
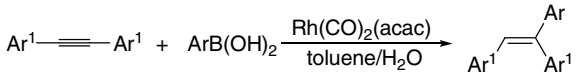
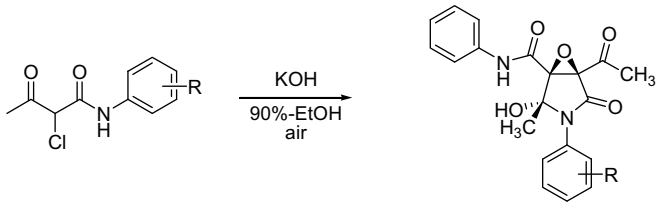
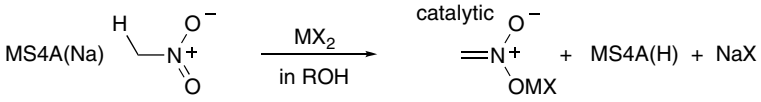


Formal total synthesis of (−)-balanol was accomplished by the preparation of the bis-benzyl derivative **3** (optical rotation data is provided) in 13 steps from bromobenzene.





Novel and unusual dimerization reaction of α-chloroacetoacetanilide under basic reaction condition to give structurally unique 6-oxa-3-azabicyclo[3.1.0]hexane was described.



*Corresponding author
Supplementary data available via ScienceDirect

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