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Tetrahedron Letters

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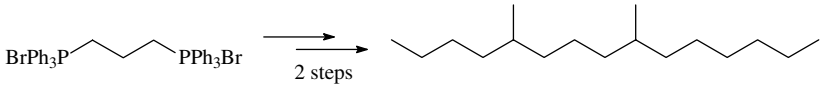
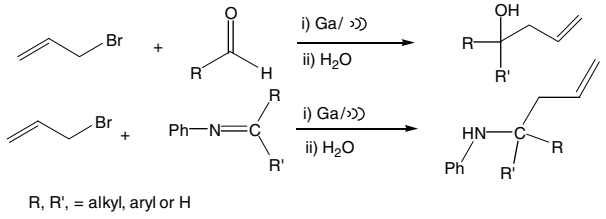
# Contents

## COMMUNICATIONS

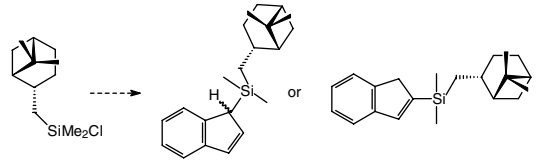




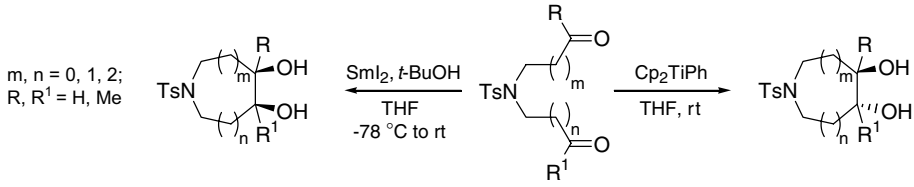


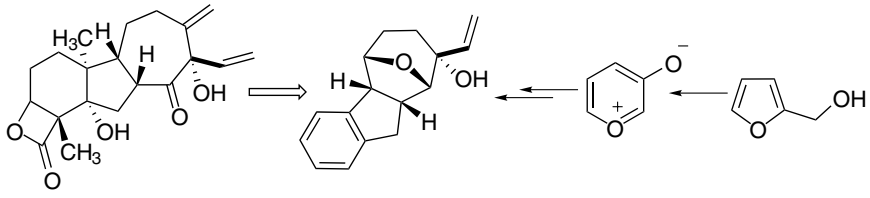


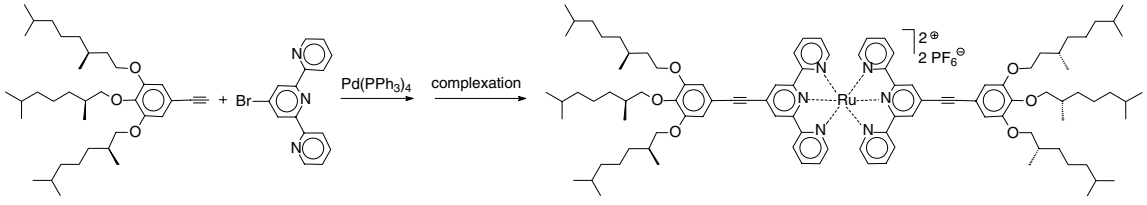

The preparation of new chirally substituted indenes is described based on the reaction of a β-pinenyl derived chlorosilane with lithiated indenes or 2-indenylmagnesium bromide.





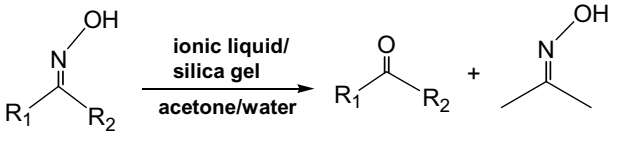



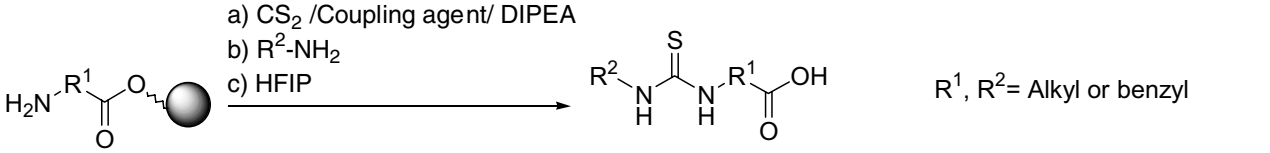




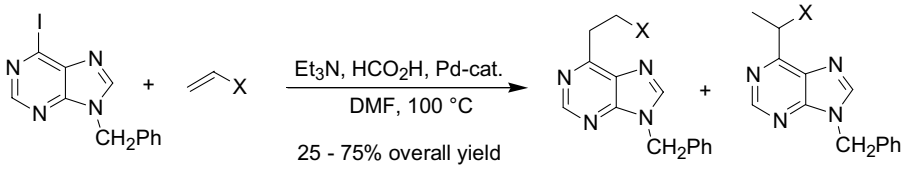

Chiral mesogenic terpyridine ligands have been prepared and complexed with ruthenium(II) ions, which resulted in the formation of extended helical columnar aggregates.



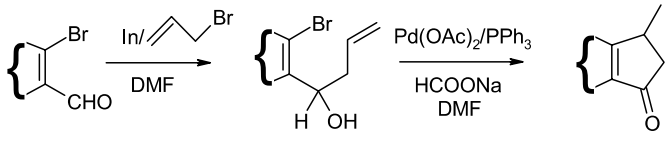




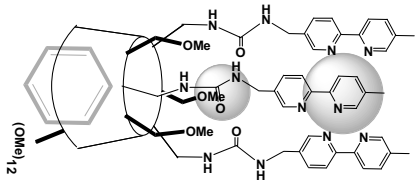


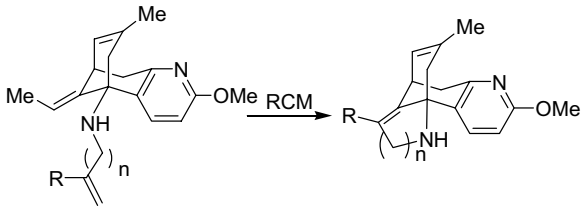


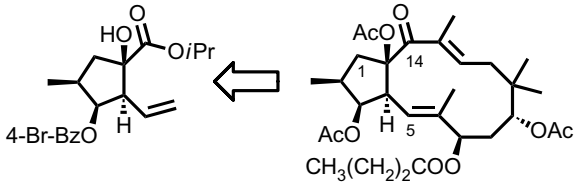


A novel symmetrically α-Cd tripode synthesis and its complexation selectivity towards 'hard' and 'soft' cations is described.

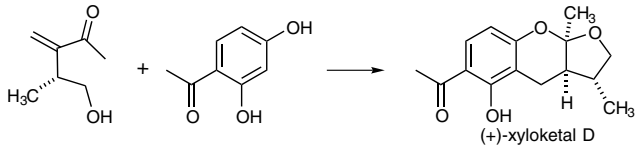




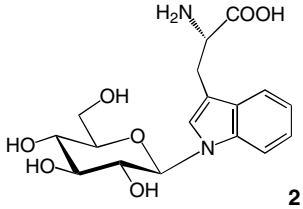




An Evans aldol addition and a thermal intramolecular carbonyl ene reaction of an α-keto esters are key steps in the asymmetric synthesis of the C-14 to C-5 segment of jatrophane diterpenes.



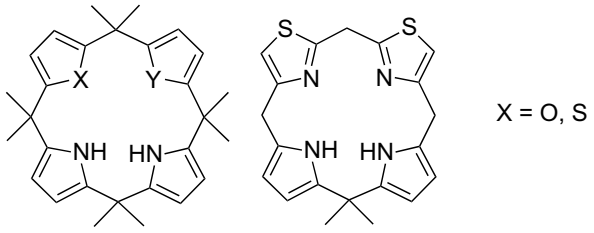




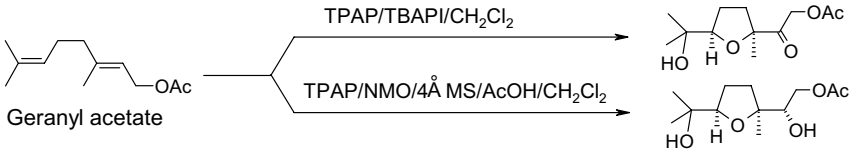




**2**

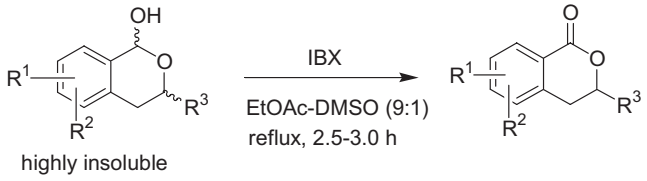
The natural product tryptophan *N*-glucoside **2** was obtained by glycosylation of a protected tryptophan derivative using a 2-*O*-pivaloyl glucosyl donor.



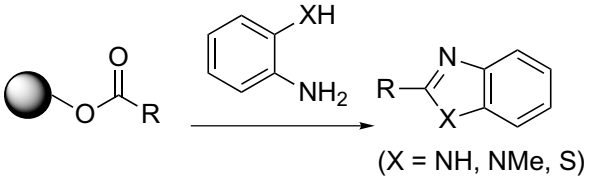




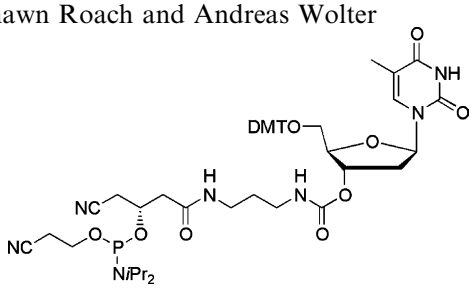





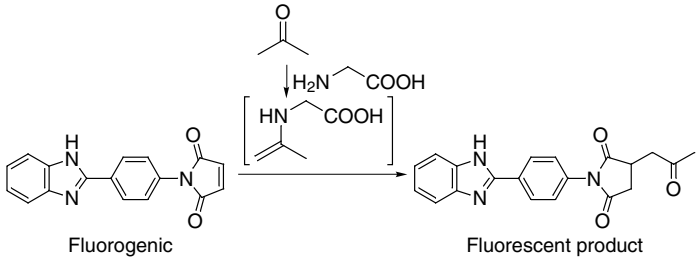

A novel improved controlled pore glass (CPG) support was developed, that enables complete cleavage and deprotection of 3′-aminoalkylated oligonucleotides within 2 h at 55 °C in concentrated ammonia.



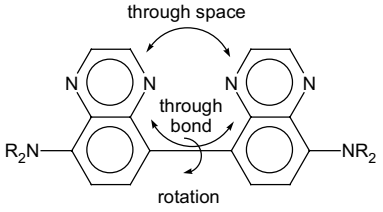



A novel phosphoramidite reagent was developed to convert terminal hydroxyl groups of oligonucleotides into phosphate monoesters. The reagent's appearance as a solid foam is advantageous for its manipulation and handling in solid-phase synthesis and improves its thermal stability.

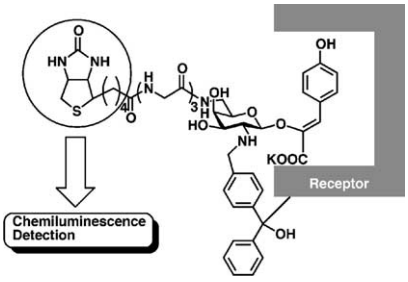




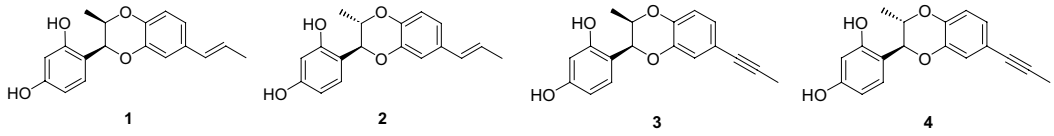


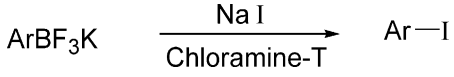

The title molecules are designed as a new class of redox systems that exhibit through-space and/or through-bond interaction across the central biaryl axis. Since both interactions are modified as a function of the torsion angle, which can be reversibly altered upon redox reactions, these donors would be the interesting prototypes for studying the switching phenomenon of organic redox systems.



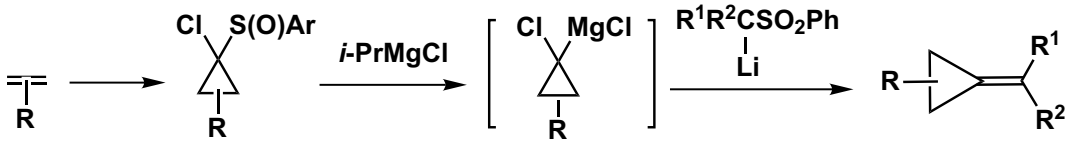


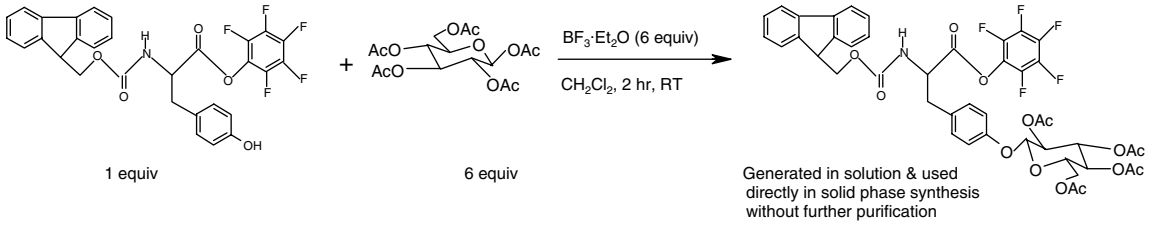


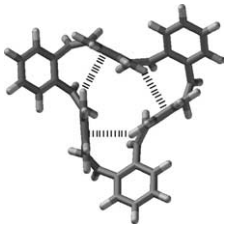




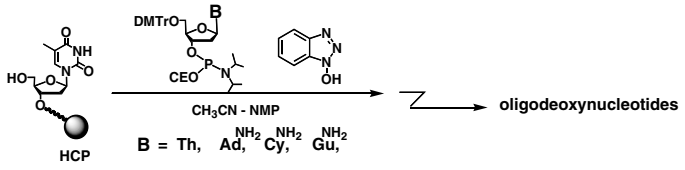



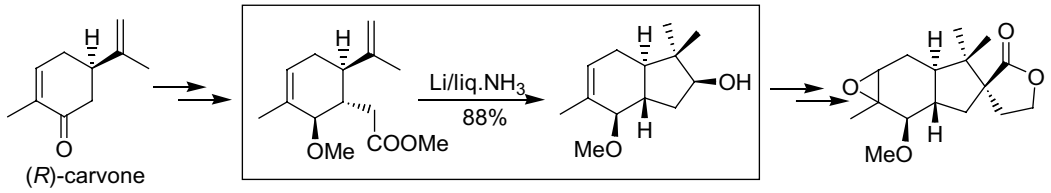


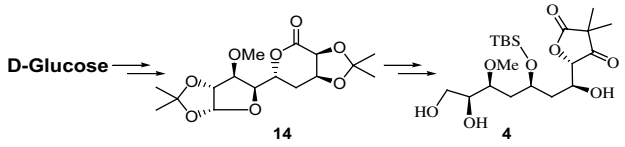
*All-Z*-hexabenzo[24]annulene was synthesized via a poly-*cis*-stilbene intermediate. The single crystal of the annulene has a chiral $C_3$-symmetry with a central benzene trimer substructure. Although the compound is highly flexible in solution, the $C_3$-symmetric structure is stabilized by three concurrent CH/π interactions.





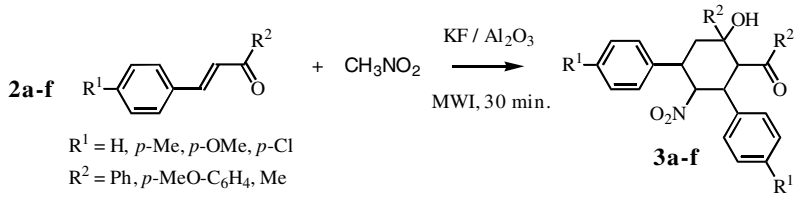




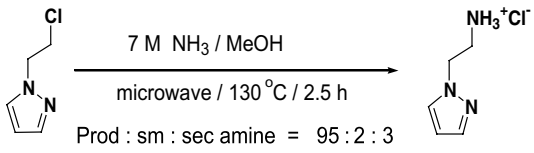




A chiral pool approach starting from D-glucose involving RCM and stereoselective dihydroxylation as key steps, addressed the synthesis of **4**, an advanced intermediate corresponding to the C(1)–C(11) portion of peloruside A.

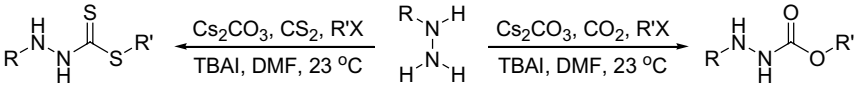




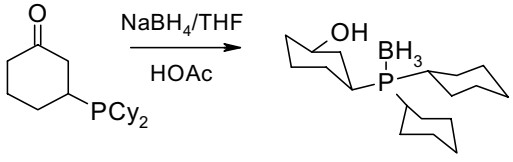


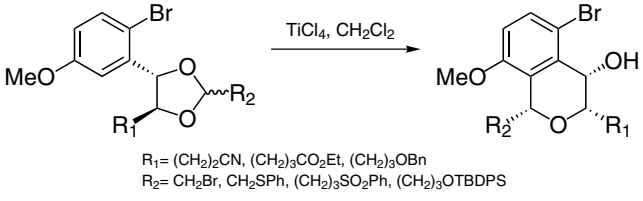

Microwave-assisted synthesis of HX salts of primary amines from their corresponding halides and 7M ammonia in methanol provides practical high yield access to even volatile primary amines for parallel synthesis.



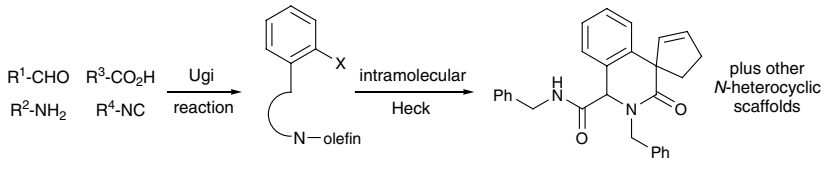


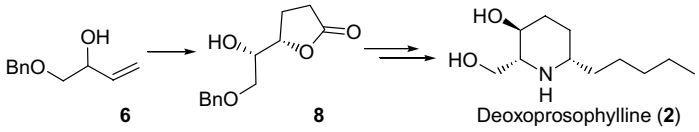





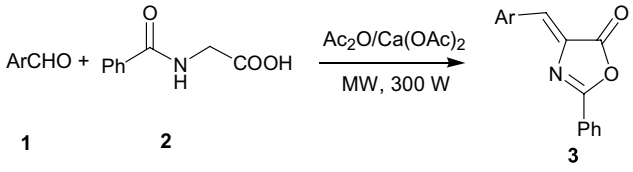




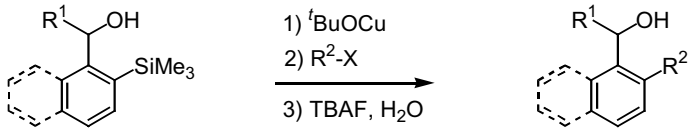

An efficient synthesis of (+)- and (−)-deoxoprosophylline was accomplished from the readily available *cis*-2-butene-1,4-diol in which the Sharpless asymmetric dihydroxylation was used as the key step.



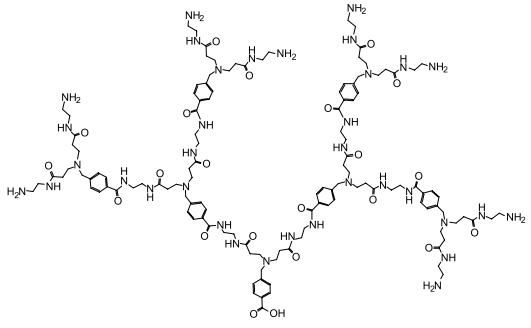


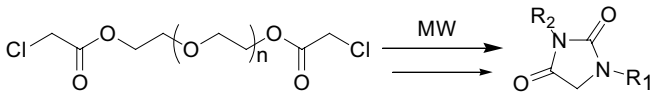

4-Arylidene-2-phenyl-5(4*H*)-oxazolones were prepared by using calcium acetate under solvent-free conditions with microwave irradiation.



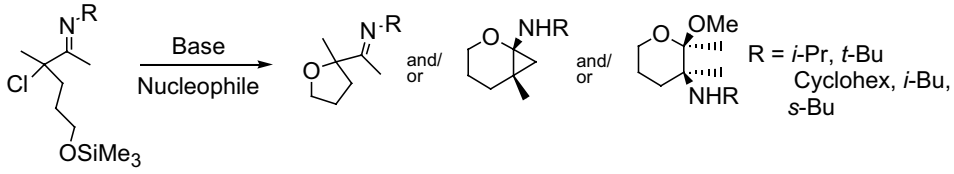









## OTHER CONTENTS



*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect



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