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Tetrahedron Letters

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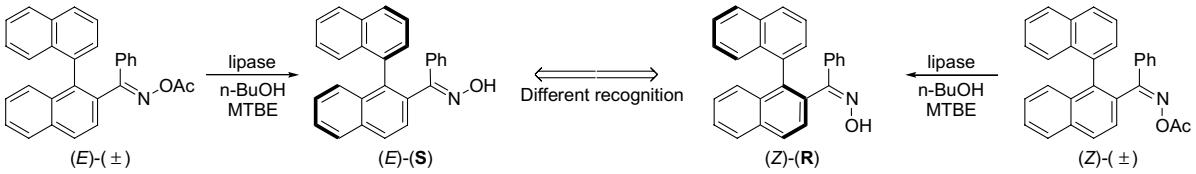
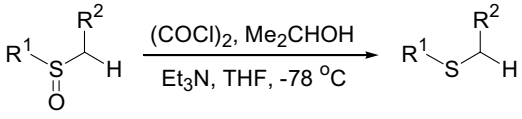
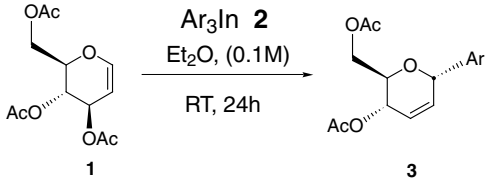
Contents

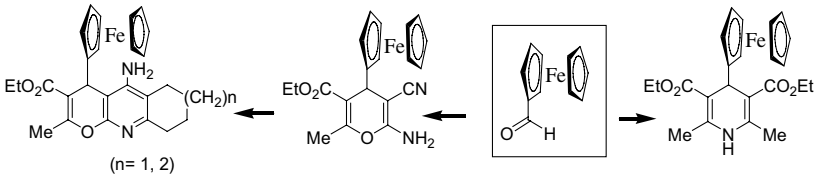
COMMUNICATIONS

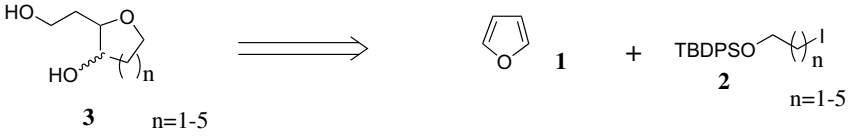


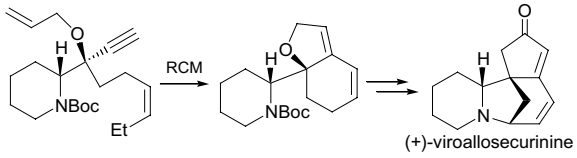




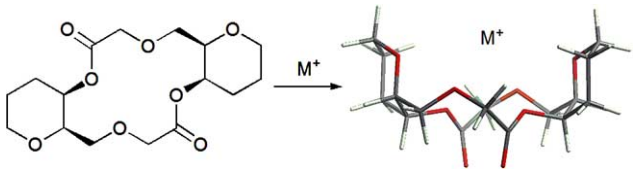
2,3-Unsaturated-*C*-aryl glycopyranosides are important intermediates in the synthesis of medicinally important *C*-aryl glycosides. Treatment of glycal acetates such as **1** with triarylindiums **2** in ether at room temperature gives high yields of *C*-aryl-$\Delta^{2,3}$-glycosides **3** of predominantly α-configuration.



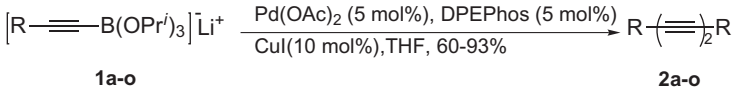


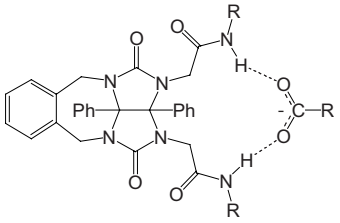


The first diastereoselective total synthesis of (+)-viroallosecurinine was achieved starting from (+)-pipecolinic acid by employing a tandem ring-closing metathesis of a dienyne derivative, prepared via chelation-controlled addition of an alkyne moiety to the corresponding ketone.

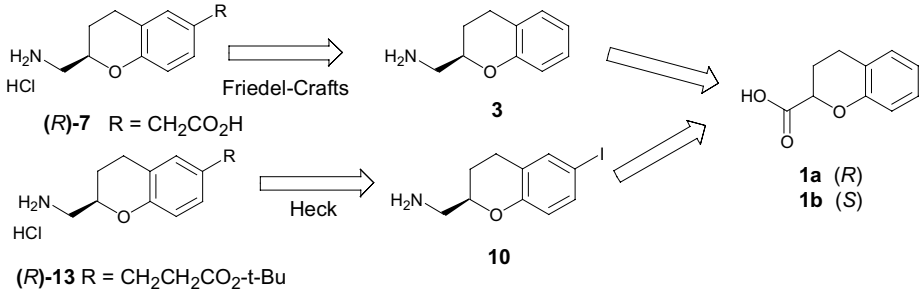


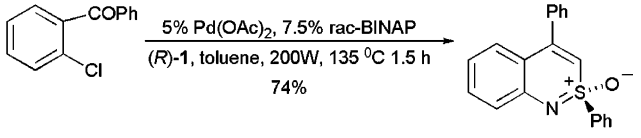
The *cis*-2-alkyl-3-oxy-tetrahydropyran unit as a novel structure for the design and synthesis of a new type of ionophore with C_2-symmetry is reported. The synthesis of five macrolides and their complexation properties were investigated.



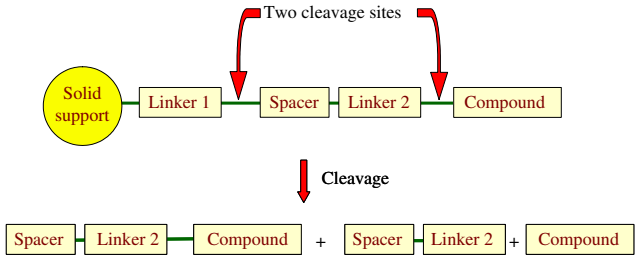


Glycoluril based tweezer-type receptor has been designed and synthesized. This receptor displays good affinities for Y-shaped anions such as acetate and benzoate, while binding spherical-shaped anions and tetrahedral-shaped anions only weakly.

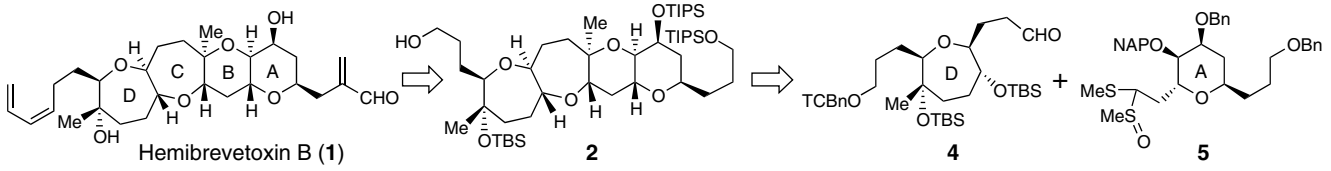




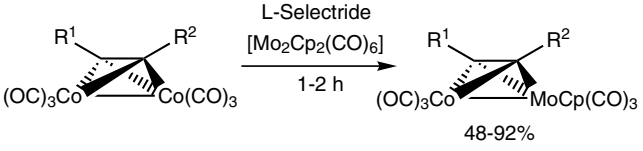
N-Arylsulfoximines and related species could be prepared in good to excellent yield by the palladium-catalyzed coupling of **1** with aryl chlorides under the influence of microwave irradiation.

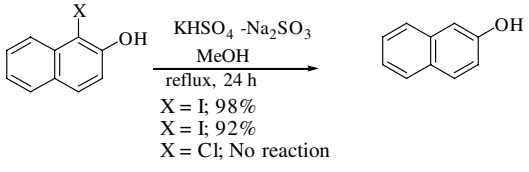


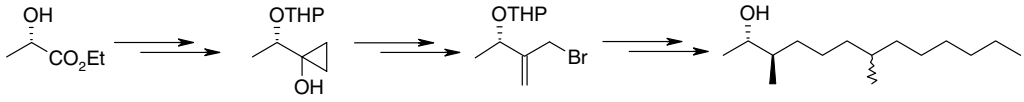
Dual linkers with specific reference cleavage sites accelerate and simplify development and optimization of reaction conditions for solid-phase synthesis.

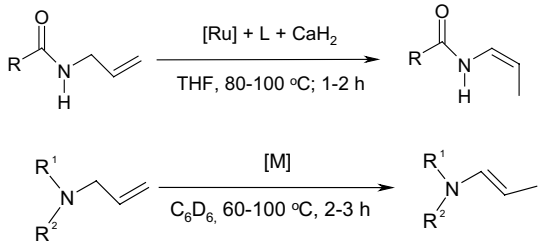


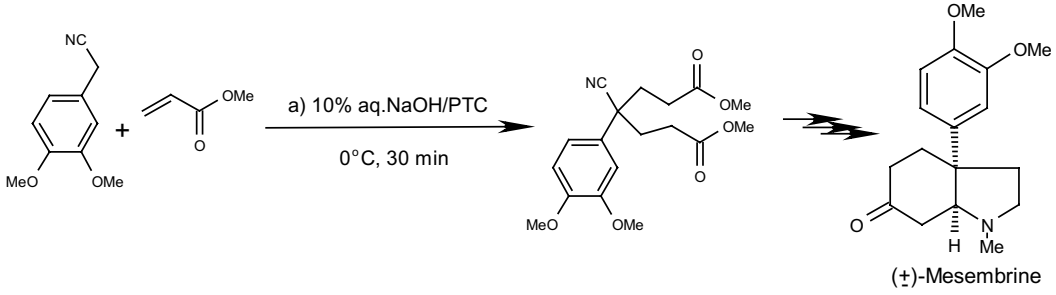
Concise construction of the *trans*-fused 7/7/6/6 tetracyclic ether part **2** of hemibrevetoxin B (**1**) from the A- and D-ring segments (**5** and **4**) was achieved.

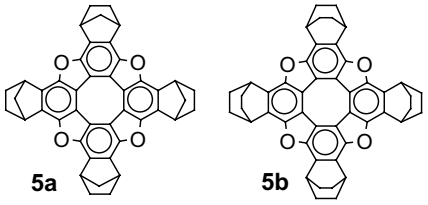




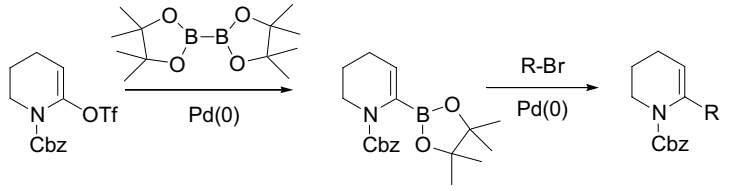


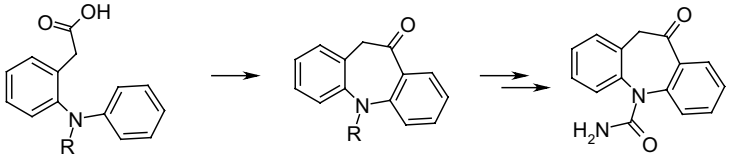


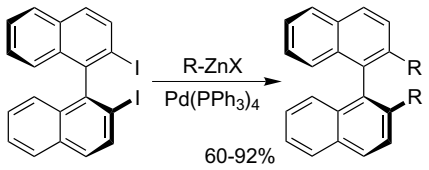




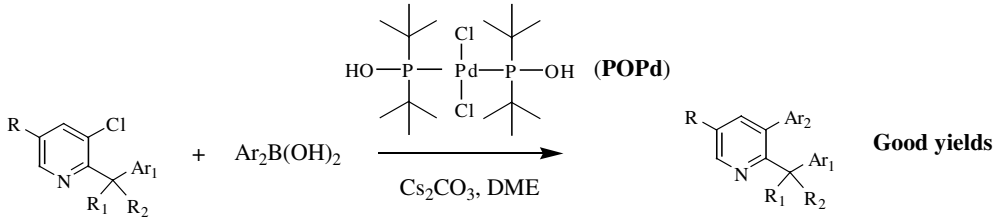
A simple and efficient synthesis of soluble circulane derivatives and isolation of their stable cation–radical salts is accomplished.

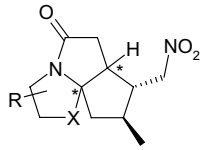




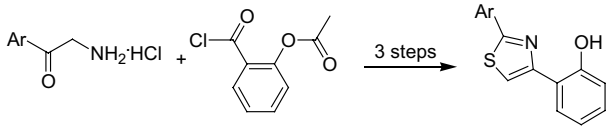


A study on cross-coupling alkylations of 1,1′-binaphthyl-2,2′-dielectrophiles shows that only Negishi coupling of the diiodide satisfies requirements of economy (in terms of reaction steps), yield and stereoconservation for the effective synthesis of functionalised 2,2′-dialkylated derivatives.

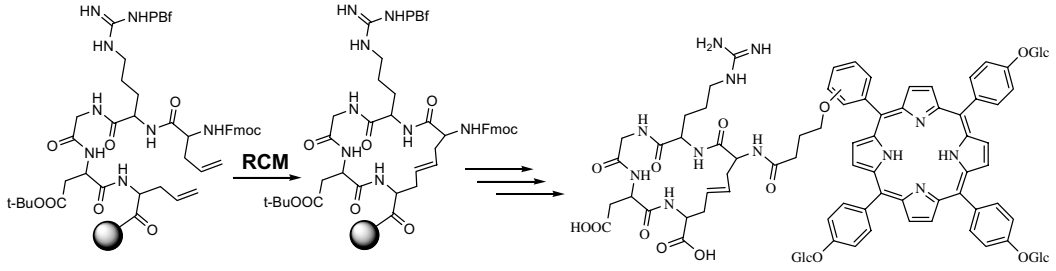


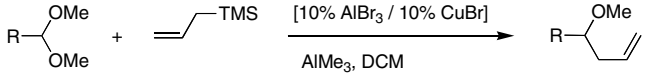


We describe the stereoselective synthesis of tricyclic lactams containing a chiral quaternary center and suitable for the synthesis of chemical libraries in order to mimic the complexity of natural compounds.

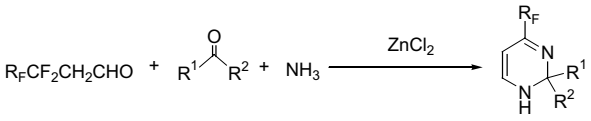


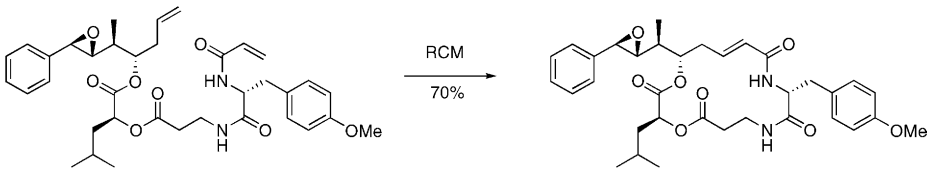
The synthesis of 2,5-diarylthiazoles with intramolecular hydrogen bond fluoresce at long wavelengths, show abnormally large Stokes' shifts and good radiation resistance.

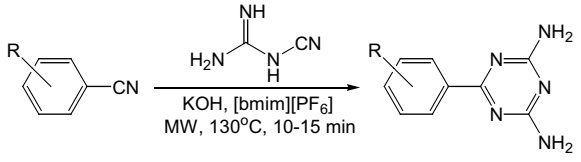




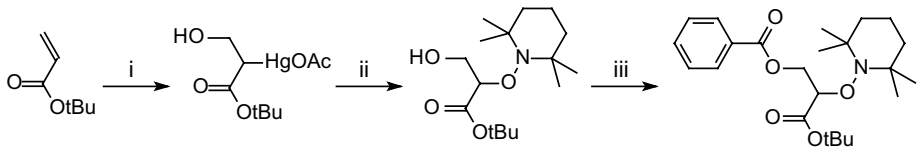
The new Lewis acid system $AlBr_3$/CuBr catalyzes the allylation of acetals and a cyclic ketal with allyltrimethylsilane to give homoallyl ethers. A small amount of $AlMe_3$ was added to scavenge unwanted HBr.



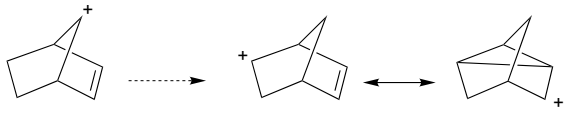




An efficient and green approach was developed to prepare 6-aryl-2,4-diamino-1,3,5-triazines from corresponding arylnitriles and dicyanodiamide in ionic liquid [bmim][PF_6] under computer-controlled microwave irradiation.



(i) H_2O, $Hg(OAc)_2$
(ii) DMF, TEMPO, 5°C; O_2 then $NaBH_3CN$, 2h
(iii) CH_2Cl_2, pyridine, 5°C; then benzoyl chloride, 5-25°C



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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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