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Tetrahedron Letters

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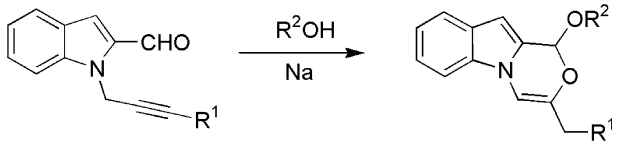
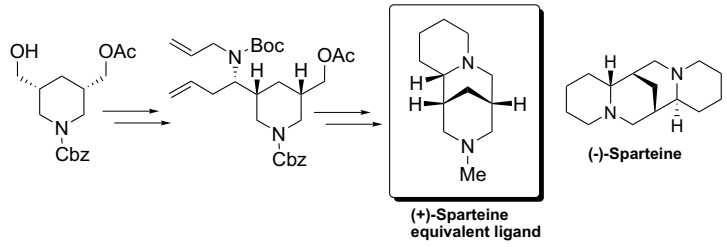
Contents

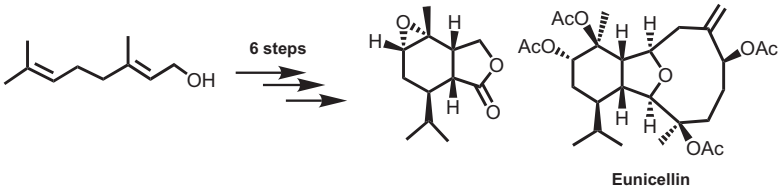


R^1 = H, aryl
R^2 = alkyl, benzyl, allyl, propargyl

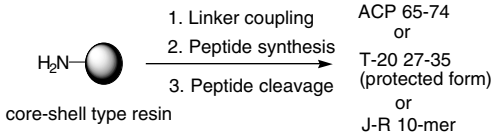


$$2ArSO_2Cl + Me_3SiSiMe_3 \xrightarrow{Pd\ cat.} Ar\text{-}Ar + 2SO_2 + 2SiClMe_3$$

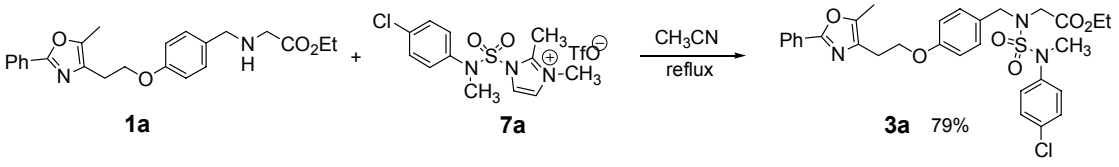
Arenesulfonyl chlorides react with hexamethyldisilane in the presence of $Pd_2(dba)_3{\cdot}CHCl_3$ to afford biaryls.



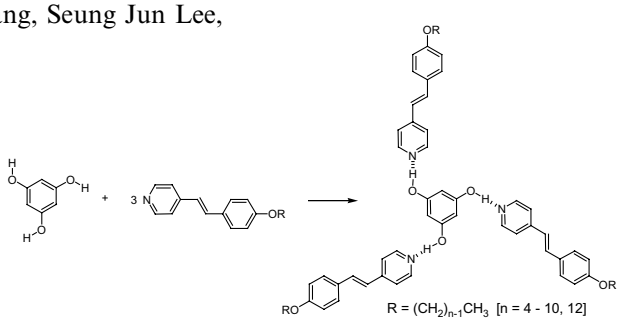
A tandem ATRC reaction has been applied to the synthesis of 2-oxabicyclo[4.3.0]nonane core of eunicellin.

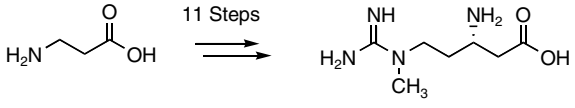


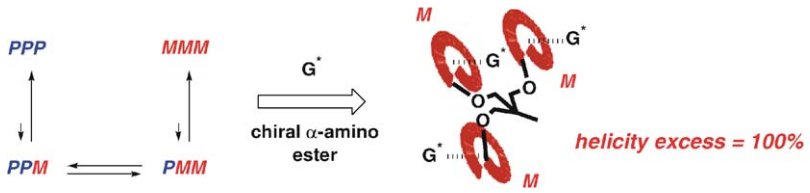
A core-shell type resin, AM *SURE*™, in which most amino groups were located at a skin layer, gave better synthetic efficiency, compared to a noncore-shell type resin, in the synthesis of the fragment 65–74 of acyl carrier protein, the fragment 27–35 of a HIV fusion inhibitor (T-20) and the Jung–Redemann 10-*mer*.



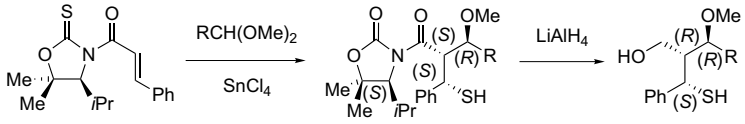
Discotic liquid crystals were prepared simply through hydrogen bonding between a non-mesogenic phloroglucinol and alkoxystilbazoles, and their self-assembly behavior was investigated.

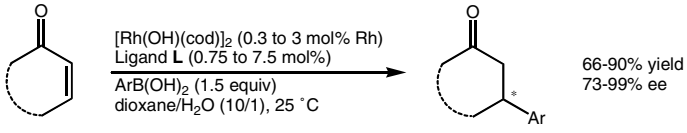




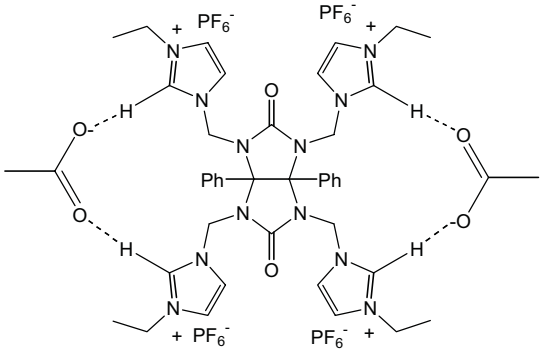


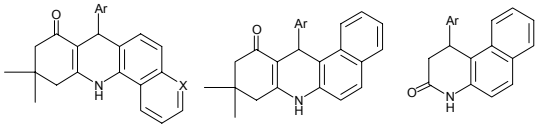
Tuning the peripheral alkyl groups, synchronous homohelicity induction in a zinc bilinone (ZnBL) trimer with a tripodal spacer was achieved upon complexation of a chiral α-amino ester to each ZnBL subunit.

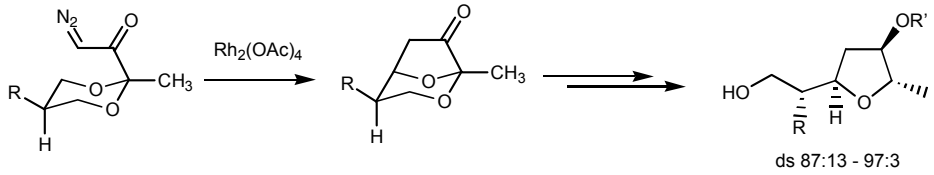


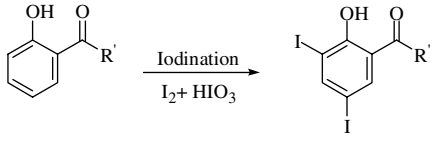


The rhodium–phosphoramidite-catalyzed asymmetric conjugate addition of arylboronic acids to enones proceeds at room temperature using $[Rh(OH)(cod)]_2$ or $[RhCl(cod)]_2$/KOH as stable and readily available catalyst precursors.

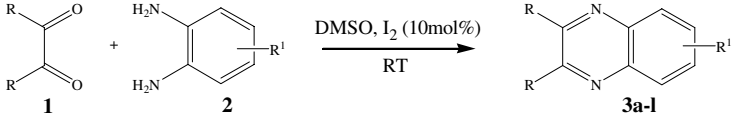




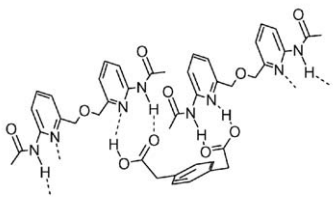




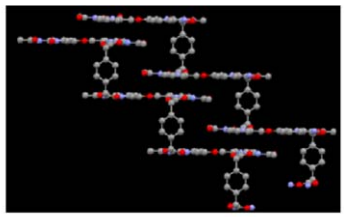
A variety of *ortho*-hydroxy substituted aromatic carbonyl compounds were regioselectively iodinated with iodine and iodic acid in excellent yields.



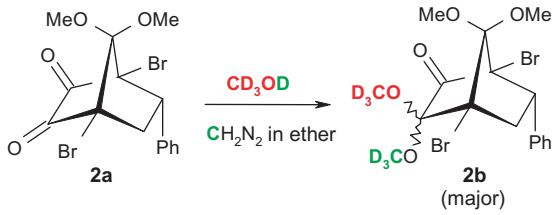
The use of molecular iodine as the catalyst for a one-pot synthesis of quinoxaline derivatives at room temperature is reported.



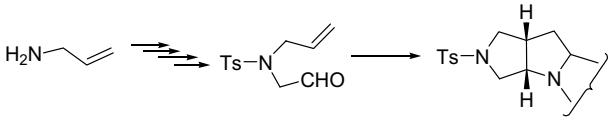
Unique *syn-syn* polymeric 1:1 co-crystal structure

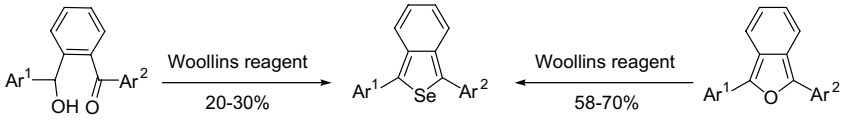


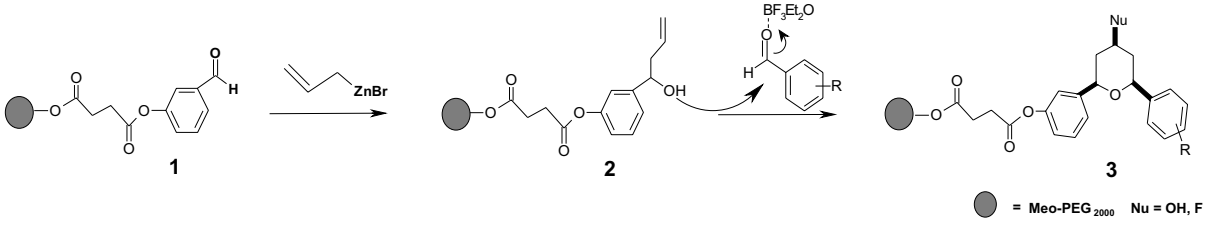
Stair like X-ray structure of the complex of receptor **1** with 1,4- phenylenediacetic acid

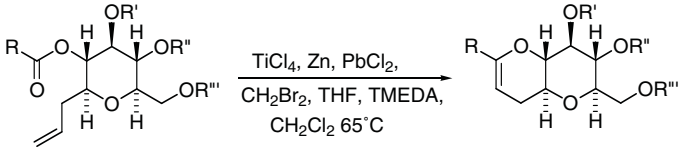


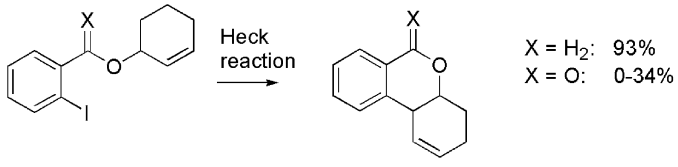
Reaction of diazomethane with norbornyl α-diketones in MeOH furnished ketals regioselectively.

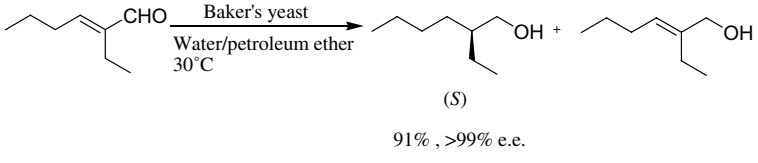


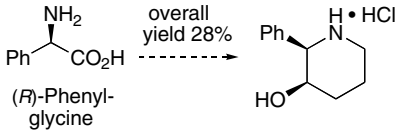


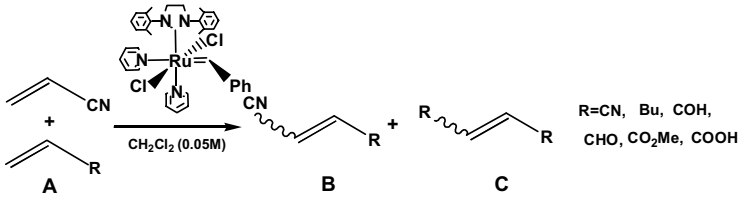


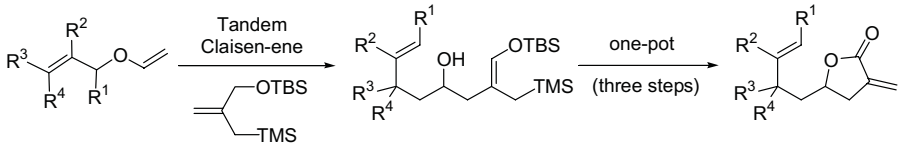


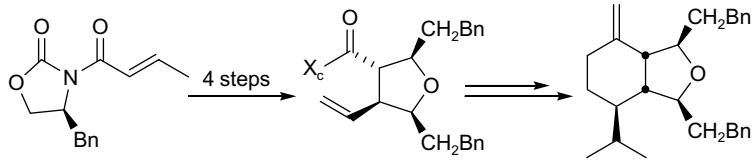


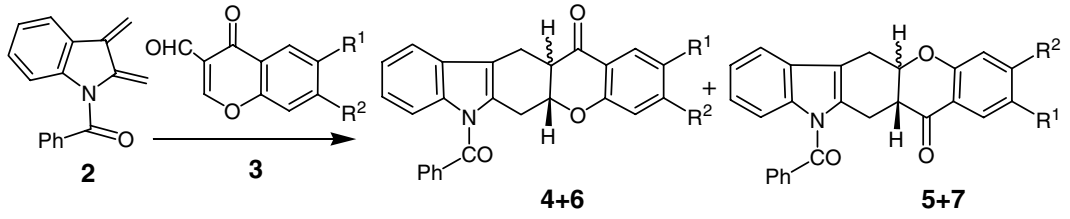


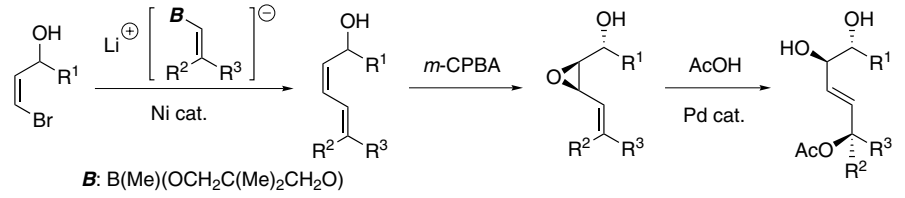


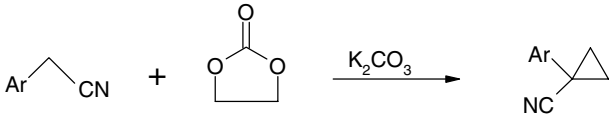


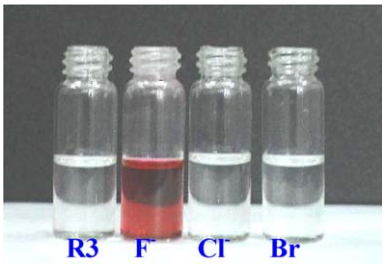


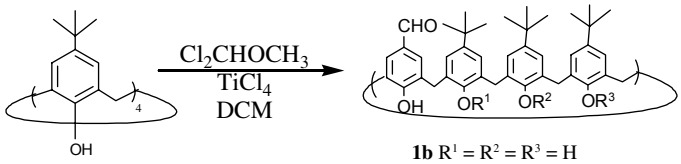




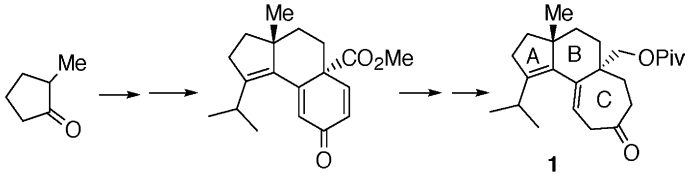




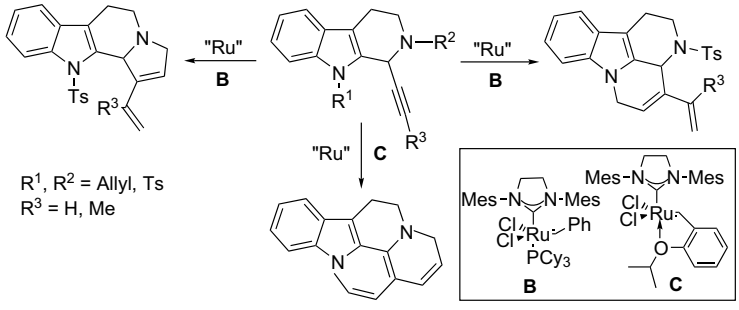




1b $R^1 = R^2 = R^3 = H$
2b $R^2 = CH_3$; $R^1 = R^3 = H$
3b $R^2 = n\text{-}C_4H_9$; $R^1 = R^3 = H$
4b $R^2 = H$; $R^1 = R^3 = CH_3$
5b $R^2 = H$; $R^1 = R^3 = n\text{-}C_3H_7$
6b $R^2 = H$; $R^1 = R^3 = n\text{-}C_4H_9$

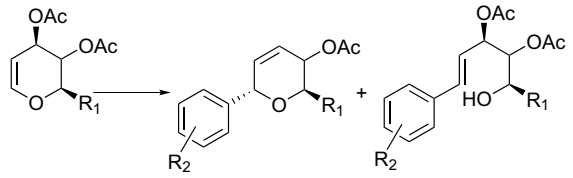


The tricyclic ketone **1**, which displays the ring system of cyathin diterpenes was assembled from 2-methylcyclopentanone through a sequence involving enantioselective Michael addition, intramolecular Heck reaction and trimethylaluminum-promoted one-carbone ring expansion of the C-ring with trimethylsilyldiazomethane.

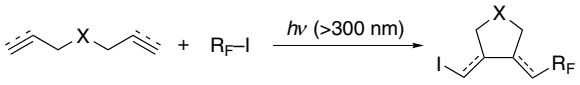


R^1, R^2 = Allyl, Ts
R^3 = H, Me

Enyne metathesis and cascade metathesis give polycyclic β-carboline derivatives.



Palladium acetate catalyzed *C*-glycosidation of peracetylated glycals with arylboronic acids in acetonitrile yields the desired 1-substituted 2,3-unsaturated glycal as well as a byproduct corresponding to the ring-opened pyran, present in varying proportions depending on the reaction conditions used. The byproduct is not formed when toluene/EtOH is used as reaction solvent.



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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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