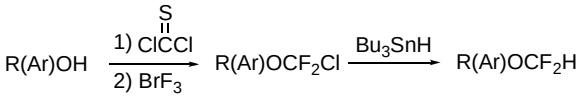
Contents lists available at ScienceDirect

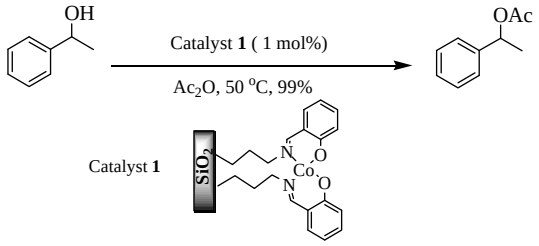
Tetrahedron Letters

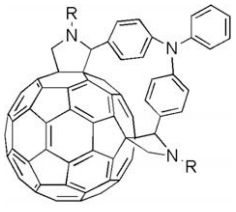
journal homepage: www.elsevier.com/locate/tetlet

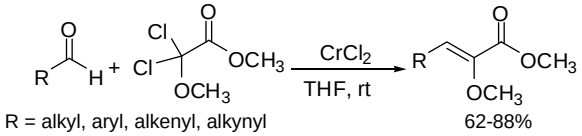
Tetrahedron Letters Vol. 50, No. 4, 2009

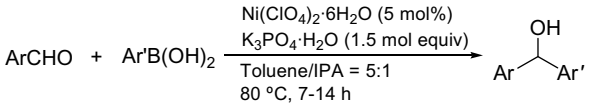
Contents

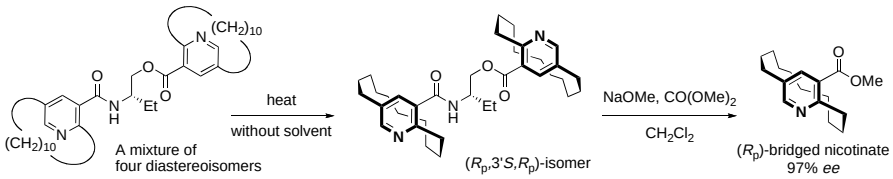


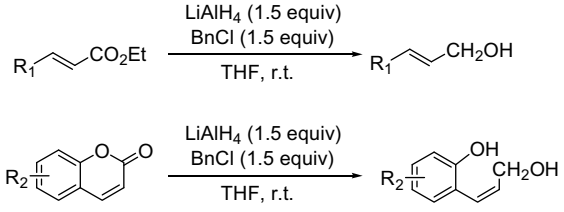


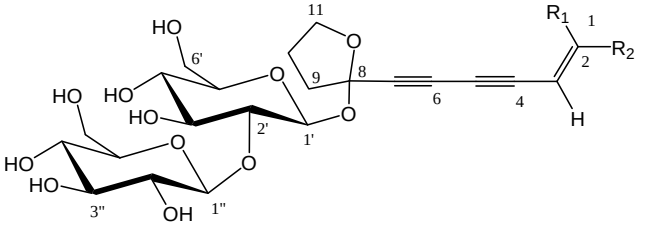




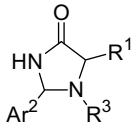




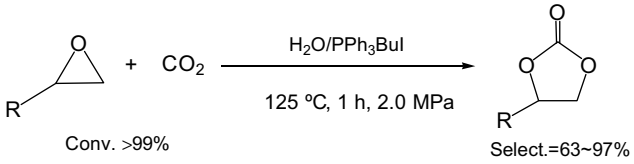


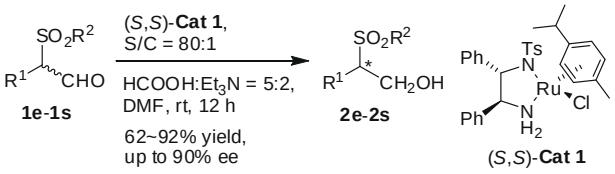


	R_1	R_2
Panaxfurayne A (**1**):	H	CH_3
Panaxfurayne B (**2**):	CH_3	H

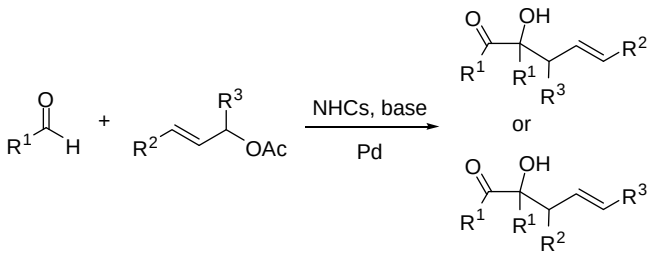


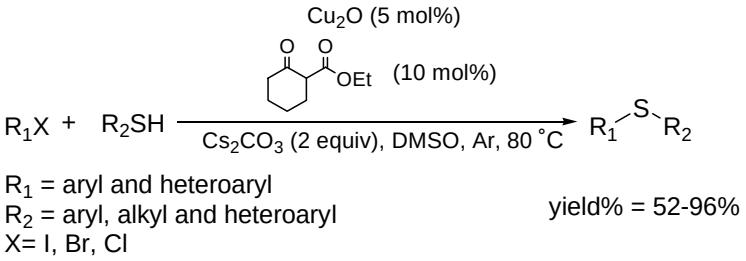
Reaction of an α-amino amide on solid support with an aldehyde in solution through a microwave-assisted condensation generates the corresponding resin-bound imidazolidin-4-one.

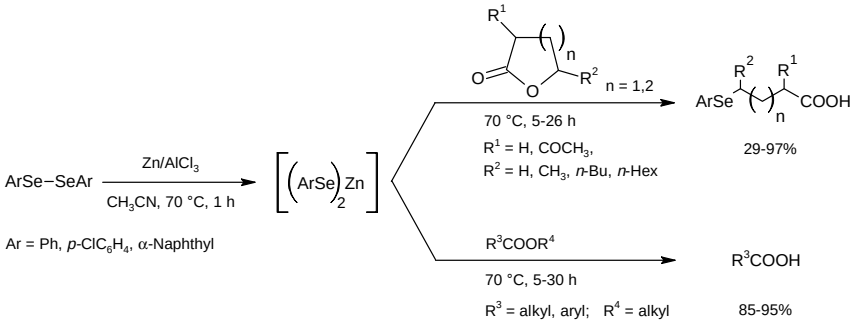


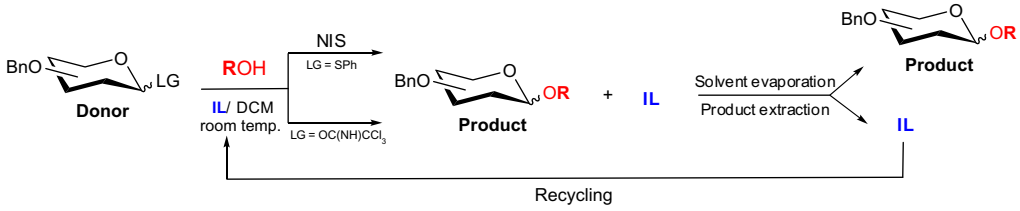


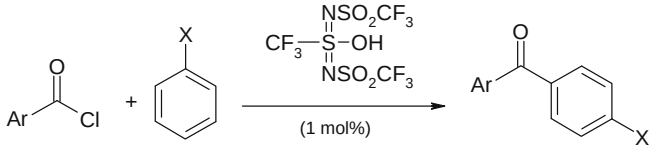
Hydrogen transfer reduction of α-sulfonylaldehydes using HCOOH–Et_3N system as the hydrogen source and (*S*,*S*)-TsDPEN-based Ru(II) as catalyst proceeds with DKR, providing optically active β-sulfonyl primary alcohols in moderate-to-good yields and up to 90% ee.

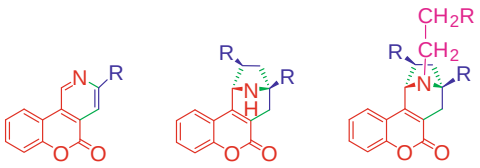




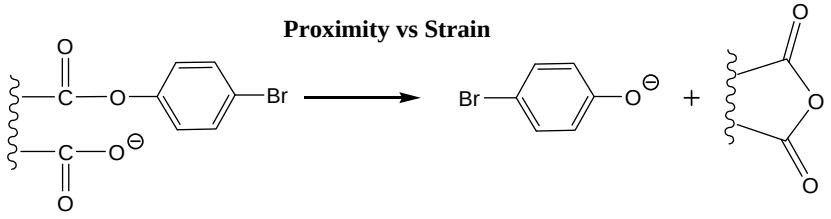


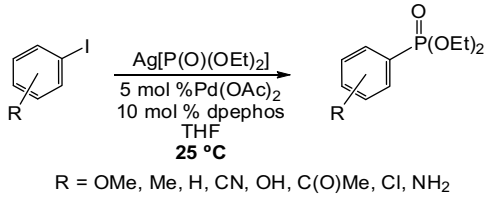




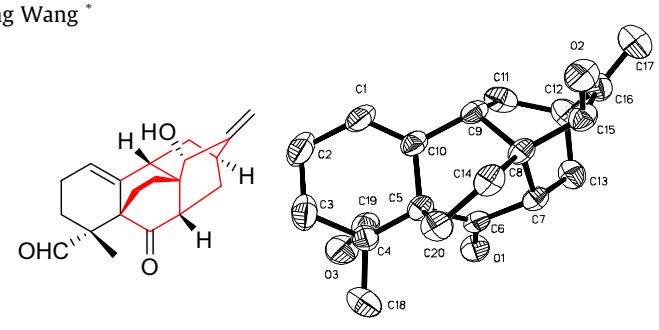


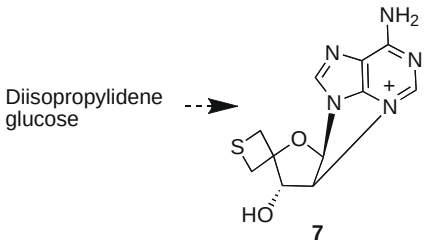
O-Methyl-4-coumarincarboxaldehyde oxime reacted with electron-deficient and electron-rich dienophiles to give, in one step, coumarin[4,3-*c*]pyridine derivatives. The regio- and stereoselectivities of the new compounds correspond well with spectroscopic and theoretical data. A possible mechanistic scheme is provided.

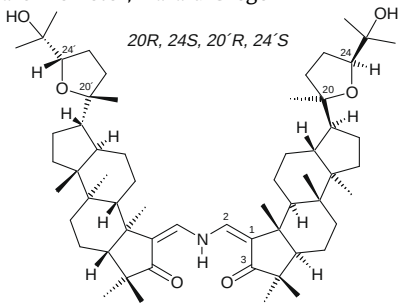




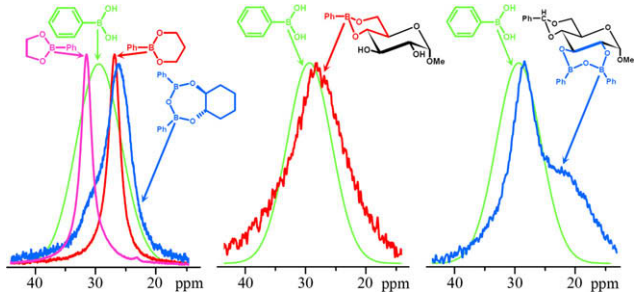
Arylphosphonates were prepared at 25 °C though the palladium catalyzed coupling of aryl iodides with a silver phosphonate.



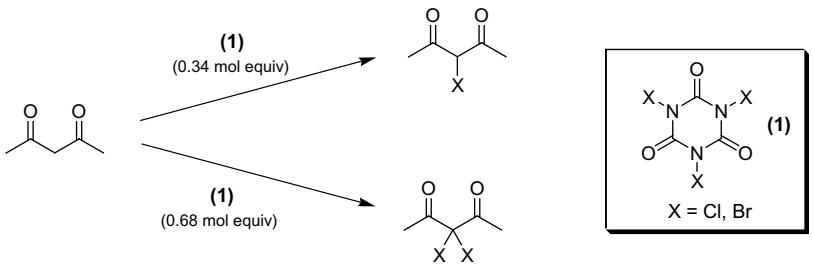


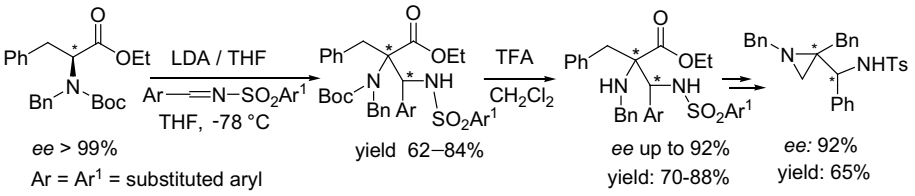


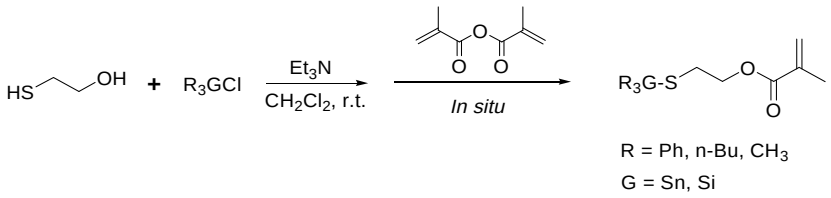
An unusual dimeric triterpene structure with two dammarane units linked with an aminic –NH– group was isolated from *Aglaia silvestris*.

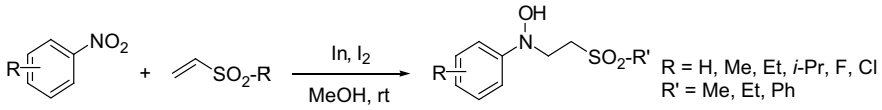


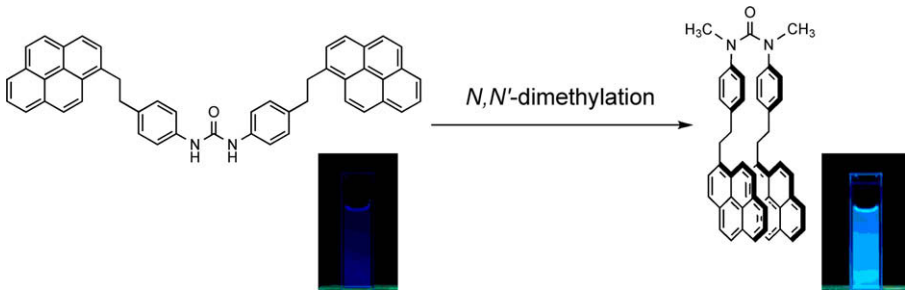
MS and NMR results are presented revealing the formation of seven-membered boronates at *trans*-1,2-diol moieties of carbohydrates, which can provide opportunities for activation, protection and analysis of glucopyranose-based oligo- and polymers.



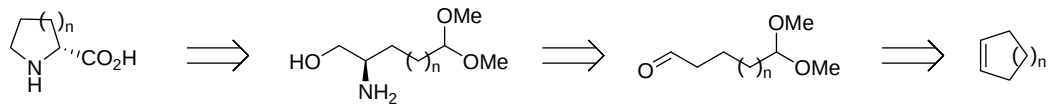








Intramolecular excimer formation of pyrene substituents in aromatic *cis*-amide or *cis*-urea enables fluorescent visualization of trans/cis conformational change.



1 (n=1, 2) **2** **3** **4**

Five-step syntheses of (*R*)-pipecolic acid and (*R*)-proline are described, respectively, from cyclohexene and cyclopentene. The key step involves the organocatalytic α-amination of functionalized aldehydes.

*Corresponding author
Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

ELSEVIER

Available online at www.sciencedirect.com
ScienceDirect

ISSN 0040-4039