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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 15, 2006

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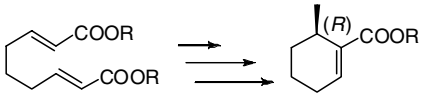
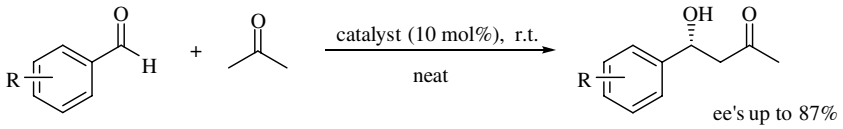
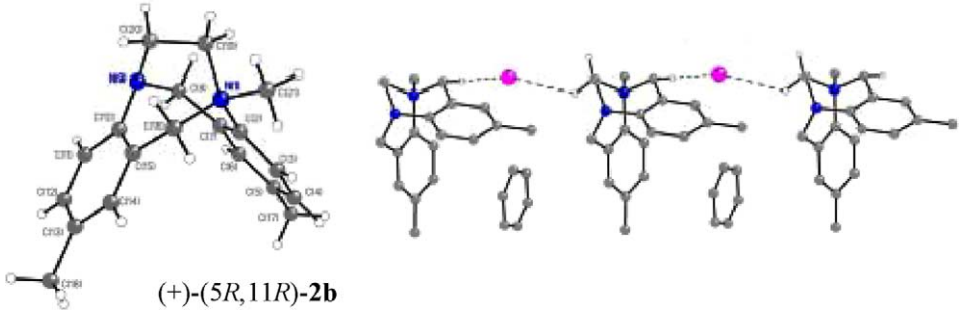
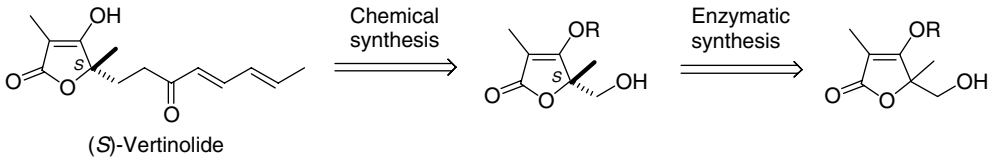
COMMUNICATIONS





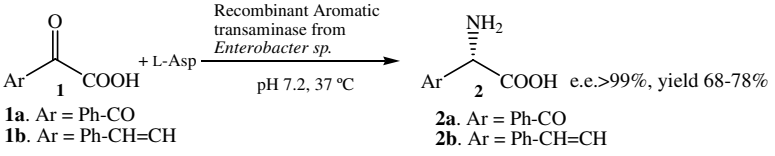


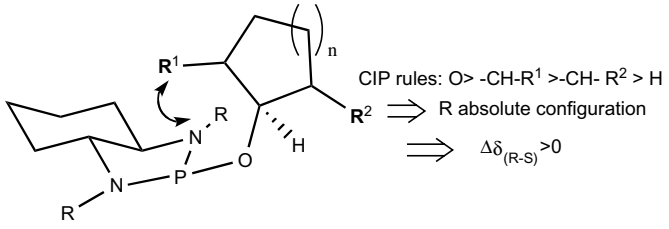
(+)-(5*R*,11*R*)-**2b**

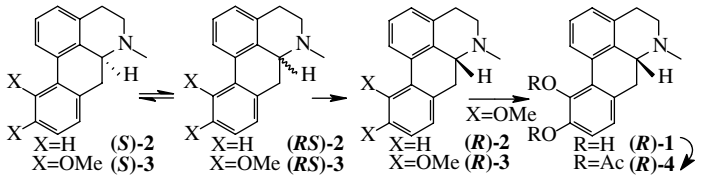


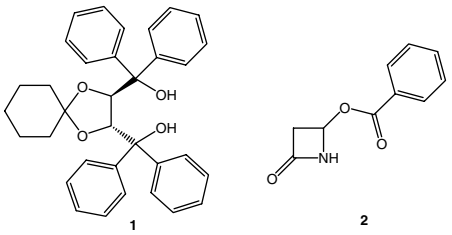
Both enantiomers were obtained with high enantiomeric excess by lipase-catalyzed kinetic resolution of tetronic acid derivatives. Total synthesis of (*S*)-vertinolide from (*S*)-alcohol was achieved in 33% yield in five steps.

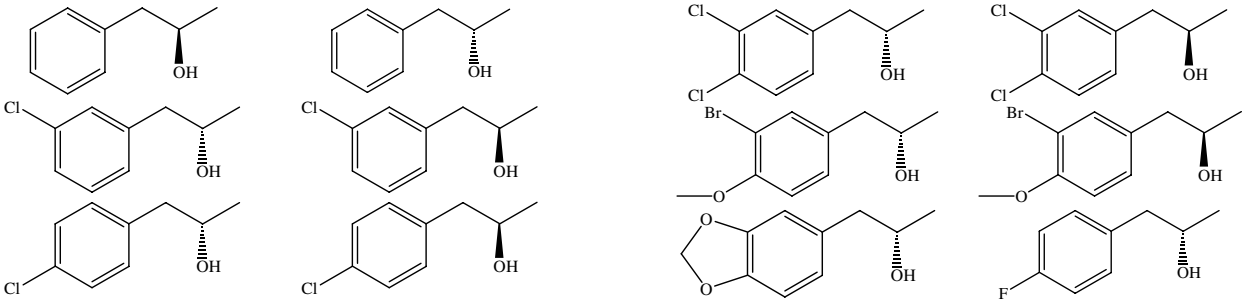
ARTICLES

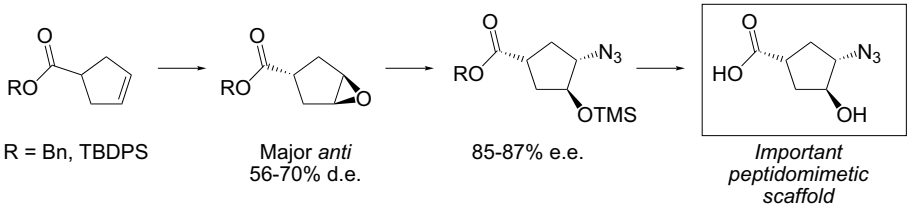




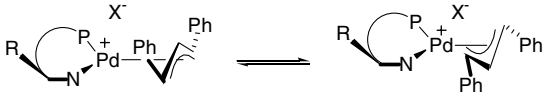


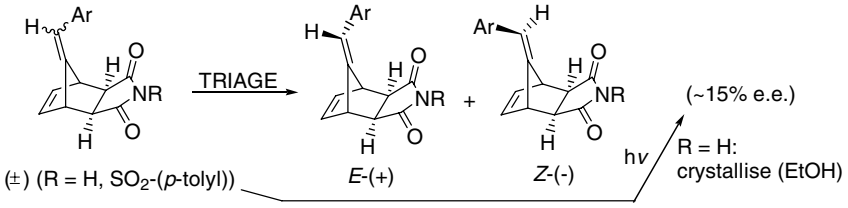


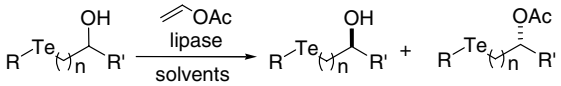


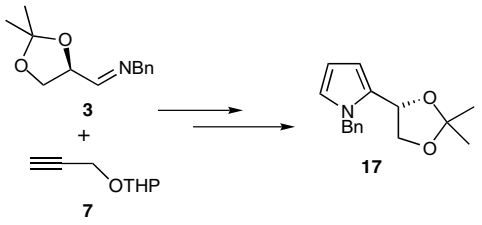


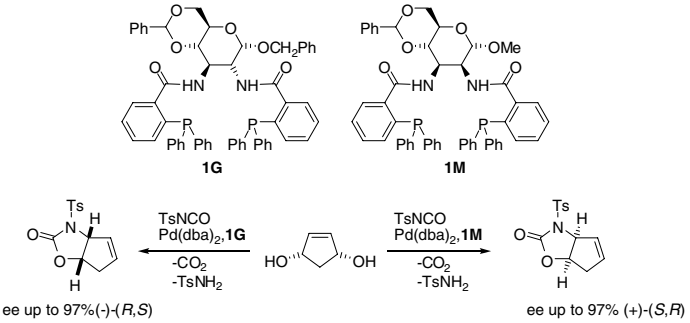
An improved stereoselective synthesis of 3-azido-4-hydroxy cyclopentanoic acid, **2**, is presented.

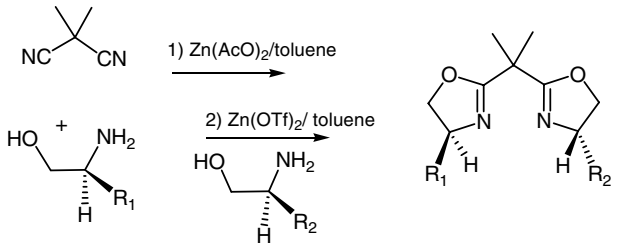


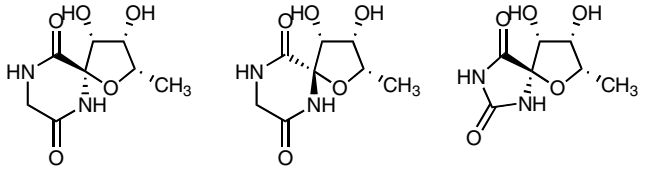




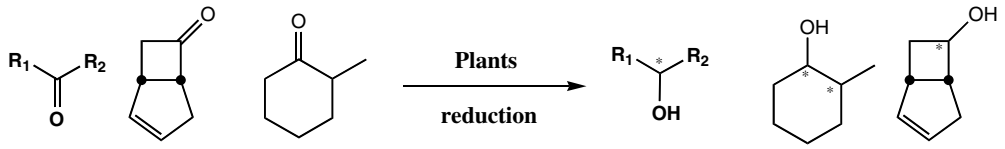


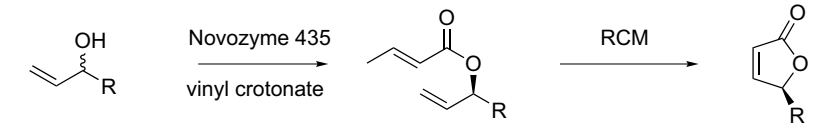






The anomeric spirodiketopiperazines and spirohydantoin of 6-deoxy-L-lyxofuranose have been prepared from L-fucose.





R = Pr, Bu, pentyl, hexyl

Two steps 75-89% yield

*Corresponding author

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