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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 15, No. 17, 2004

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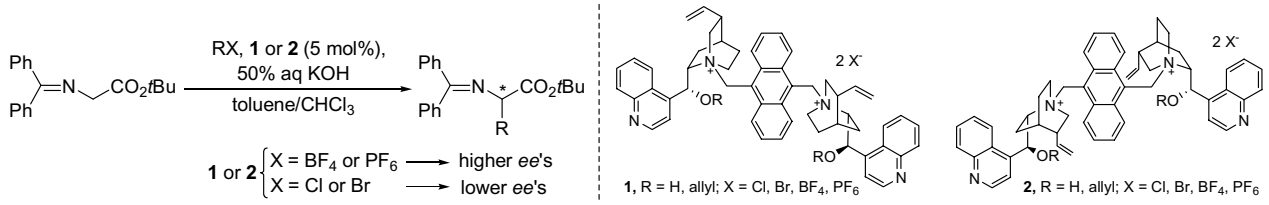

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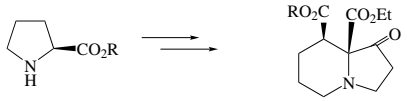
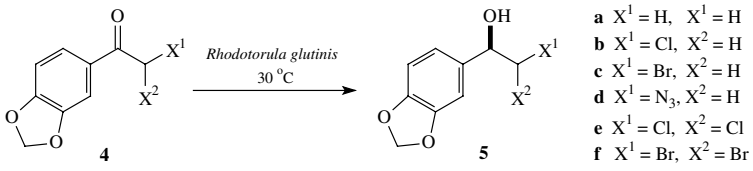
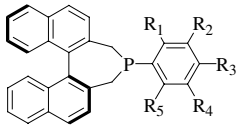
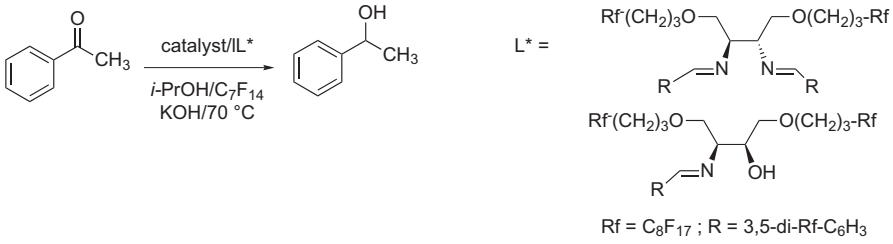
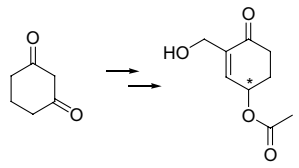
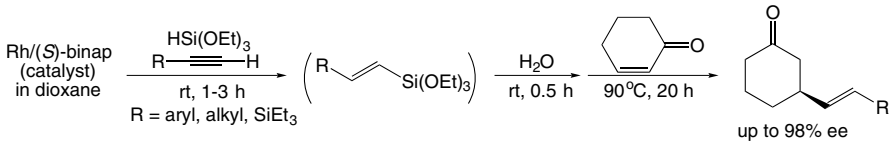


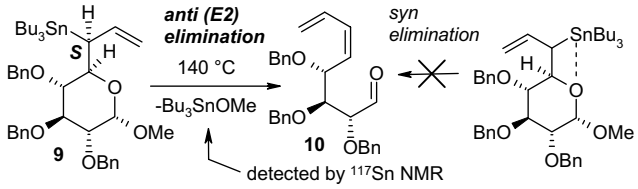




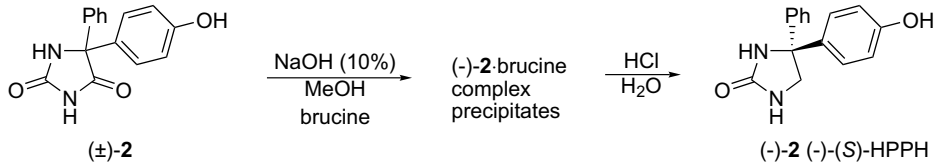




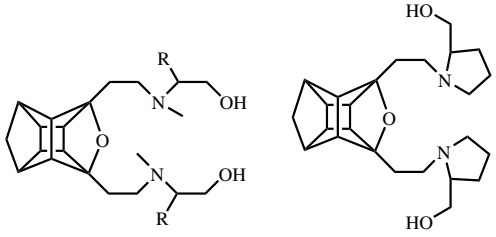


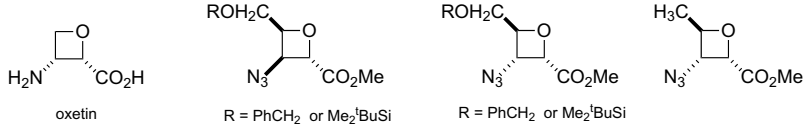


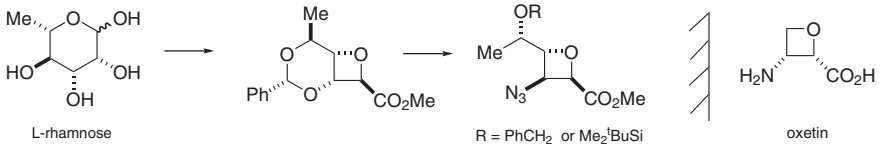
Secondary sugar allyltin derivatives thermally decompose according to the *anti*-(*E*2)-elimination mechanism. On this basis a (6*S*)-configuration was assigned to **9**—the product of reaction of 'Bu_3SnCu' with the primary sugar allylic mesylates.

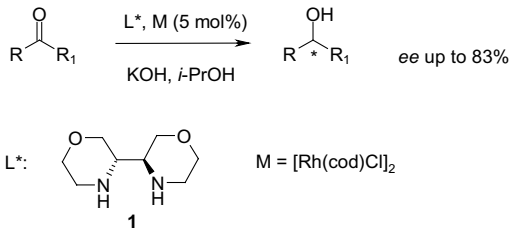


The synthesis of a new class chiral cage annulated bidentate ligands is reported. The ability of the chiral amino alcohols to catalyse the enantioselective addition of diethyl zinc to benzaldehyde was investigated. The cage annulated amino alcohols have C_1 symmetry and showed poor to good enantioselectivity with high chemical yields. The system could be utilised as a versatile probe into the reaction mechanism.

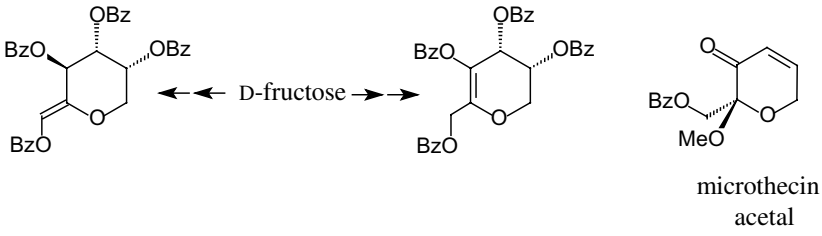


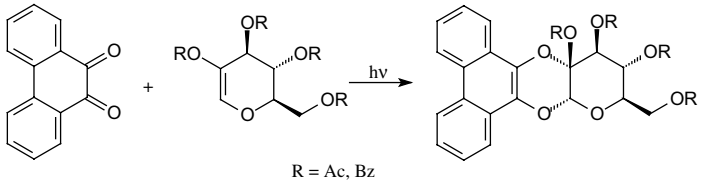


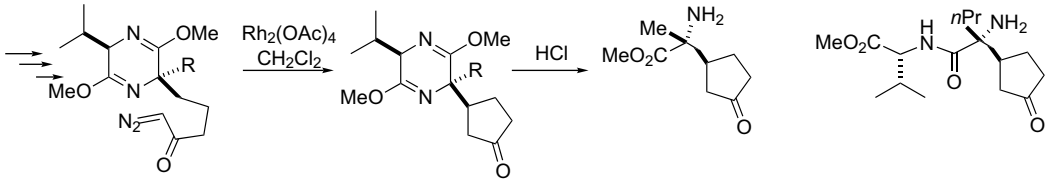


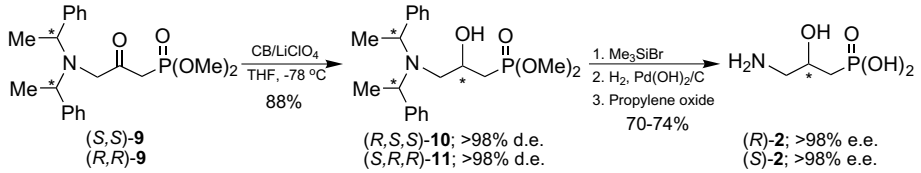


Bimorpholine **1** and Rh(I)-complex catalyse the hydride transfer reduction of prochiral aromatic ketones to give the corresponding alcohols in excellent yields with ees up to 83%.









(*S,S*)-**9**
(*R,R*)-**9**
(*R,S,S*)-**10**; >98% d.e.
(*S,R,R*)-**11**; >98% d.e.
(*R*)-**2**; >98% e.e.
(*S*)-**2**; >98% e.e.

OTHER CONTENTS

*Corresponding author

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