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Tetrahedron:
Asymmetry

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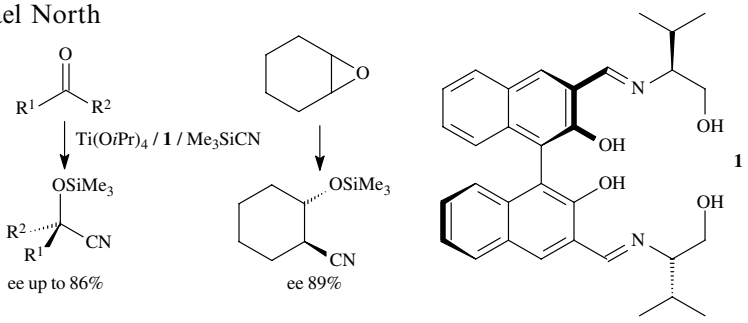
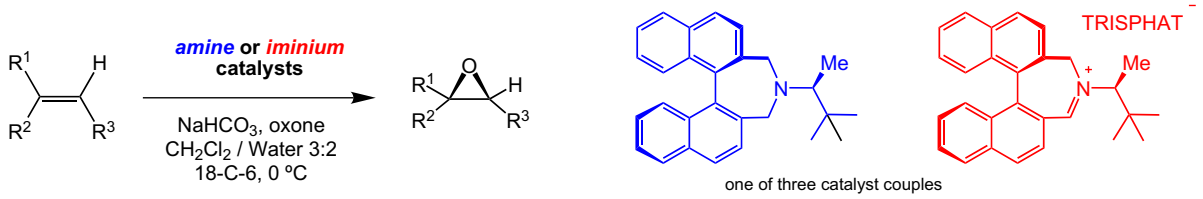
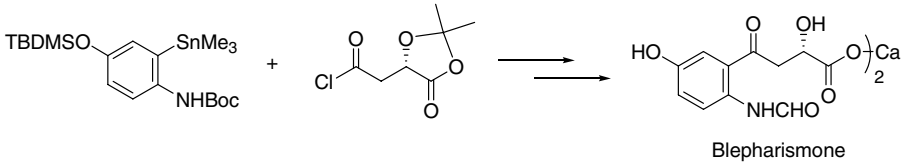
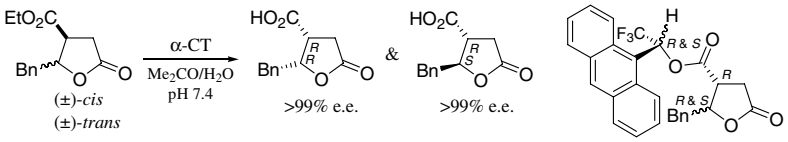
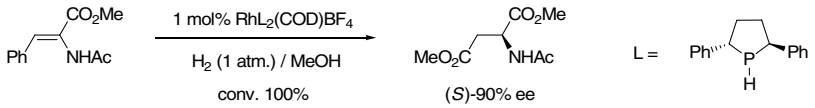
ARTICLES

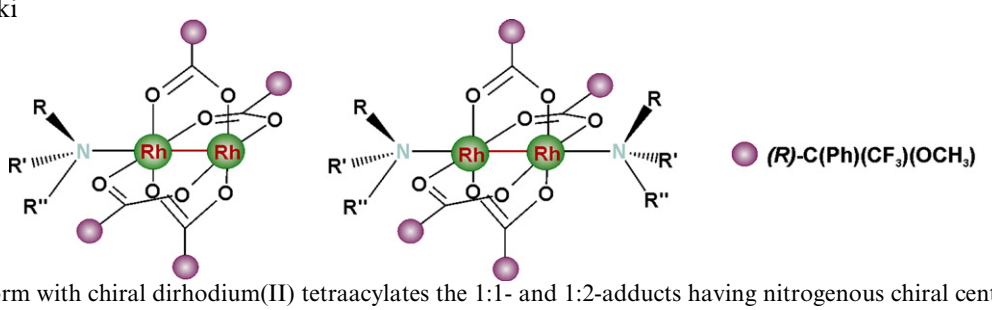




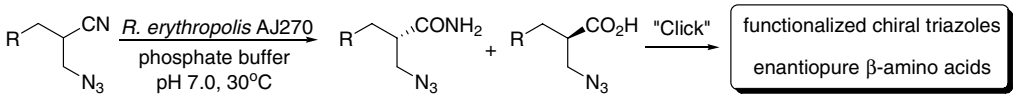


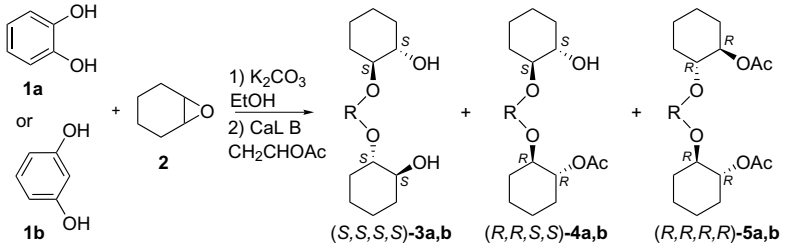


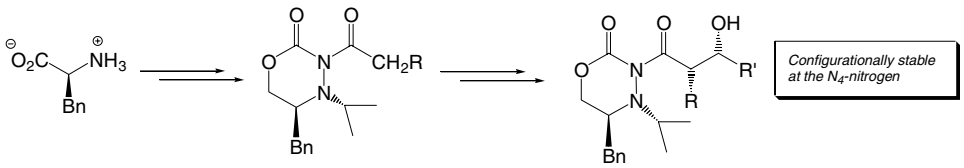


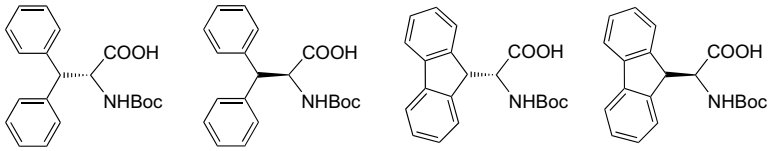


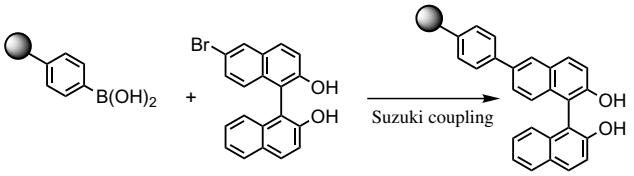
Amines NRR′R″ form with chiral dirhodium(II) tetraacylates the 1:1- and 1:2-adducts having nitrogenous chiral centers. Despite ligand exchange in the solution, the individual species are detectable by low temperature NMR.



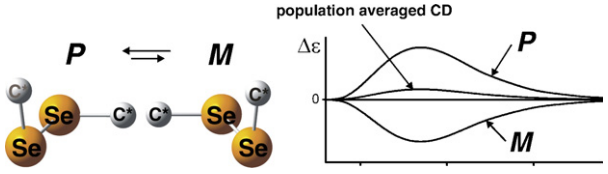


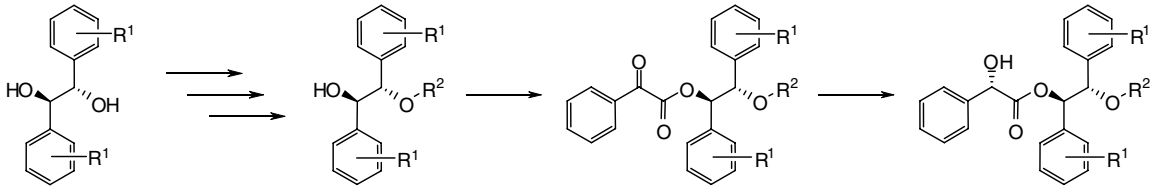






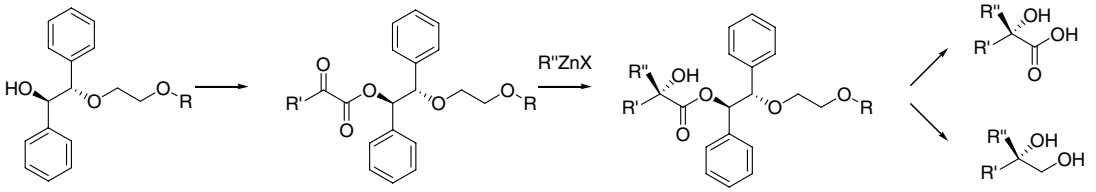
PS-BINOLs are easily prepared using the above reaction. The PS BINOLs react with titanium isopropoxide to give PS-species that catalyze the oxidation of aryl methyl thioethers by *tert*-butyl hydroperoxide in THF at 0 °C. These give the sulfoxides in up to 91% ee.

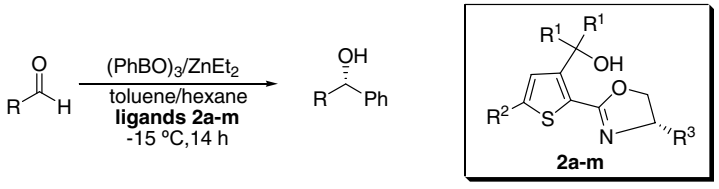




R^1 = 2-OCH_3, 2-CH_3, 4-OCH_3, 2-CF_3

R^2 = $CH_2CH(CH_3)_2$, $CH_2CH_2OCH_3$, Wang resin, CH_2CH_2O-Wang resin





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