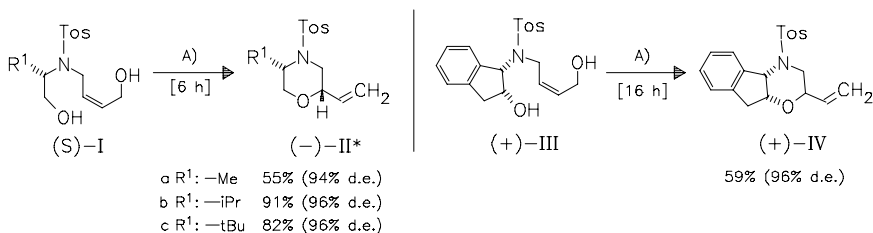
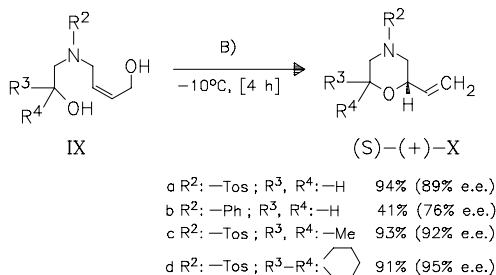
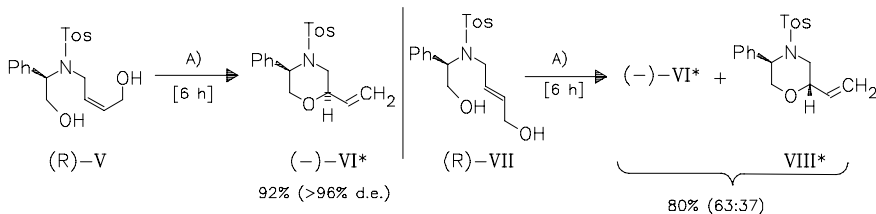


Gold-Catalyzed Direct Activation of Allylic Alcohols in the Stereoselective Synthesis of Functionalized 2-Vinyl-Morpholines. — The diastereomeric intramolecular nucleophilic alkoxylation of enantioenriched allylic alcohols, e.g. (I), (IV) or (V), is efficiently catalyzed by a Au(I)—Ag(I)—dppf complex to give vinylmorpholines in high yields and excellent diastereoselectivities (up to > 96% d.e.). The asymmetric cyclization of simple allylic alcohol substrates (IX) is similarly achieved using a chiral Au(I)—Ag(I)—DTBM-SEGPHOS catalyst. Enantioenriched vinylmorpholines (X) can be obtained in up to 95% e.e. — (BANDINI*, M.; MONARI, M.; ROMANIELLO, A.; TRAGNI, M.; *Chem. Eur. J.* 16 (2010) 48, 14272-14277, <http://dx.doi.org/10.1002/chem.201002606>; *Dip. Chim. "G. Ciamician"*, Univ. Bologna, I-40126 Bologna, Italy; Eng.) — Mischke



A): $\text{AuCl}(\text{SMe}_2)/\text{AgO-Tf}/\text{dppf}$ (cat.), toluene/ CH_2Cl_2 (4:1), 25°C , [dark]



B): $\text{AuCl}(\text{SMe}_2)/\text{AgO-Tf}/(\text{R})\text{-DTBMS}$ (cat.), toluene/ CH_2Cl_2 (4:1), [dark]

