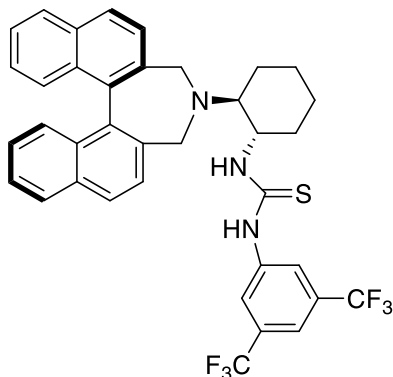
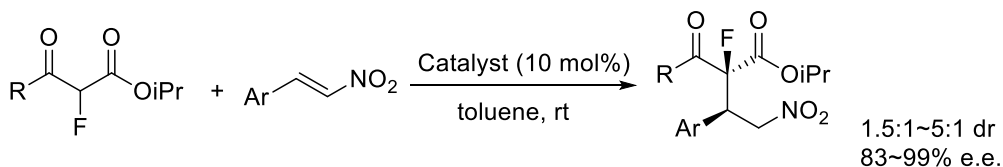
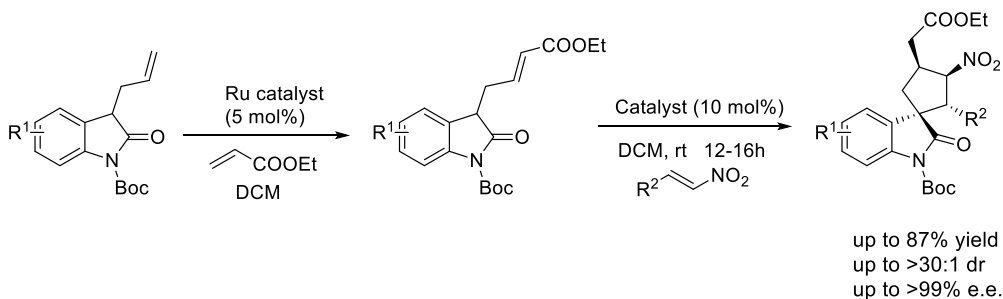
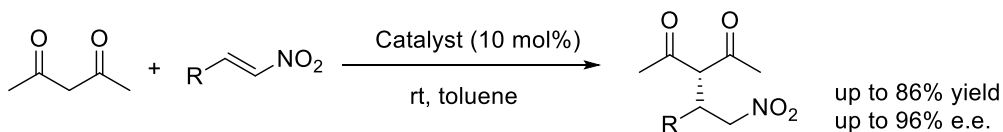


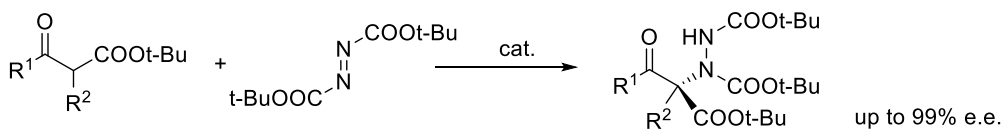
Catalog # 07-6335 (N-[3,5-Bis(trifluoromethyl)phenyl]-N'-[(1S,2S)-2-[(11bR)-3,5-dihydro-4H-dinaphth[2,1-c:1',2'-e]azepin-4-yl]cyclohexyl]thiourea, 98%, (99% ee)



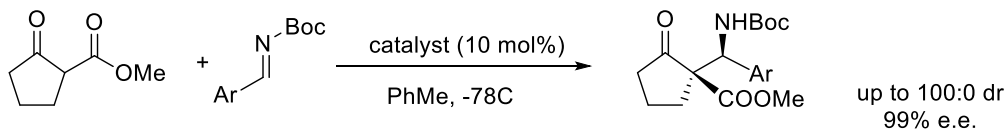
Technical Notes:

1. Michael Addition to promote enantioselective Michael reaction between 1,3-dicarbonyl compounds and nitro olefins.
2. Spirocyclopentaneoxindoles with four contiguous stereocenters including one spiroquaternary stereocenter are synthesized by a combined Ru-catalyzed cross-metathesis/organocatalyzed asymmetric double-Michael addition.
3. Catalytic enantioselective conjugate addition reaction of α -fluoro- β -ketoesters to nitroalkenes.
4. Catalytic enantioselective electrophilic α -hydrazination promoted by chiral bifunctional organocatalysts.
5. Catalytic enantioselective Mannich reaction promoted by chiral bifunctional organocatalysts.





Tech Note (4)
Ref. (4)



Tech Note (5)
Ref. (5)

References:

1. *J. Org. Chem.*, **2008**, *73*, 5202-5205.
2. *Org. Lett.*, **2011**, *13*, 6200-6203.
3. *Tetrahedron Lett.*, **2009**, *50*, 4674-4676.
4. *Tetrahedron Lett.*, **2008**, *49*, 5527-5530.
5. *J. Org. Chem.*, **2009**, *74*, 5734-5737.