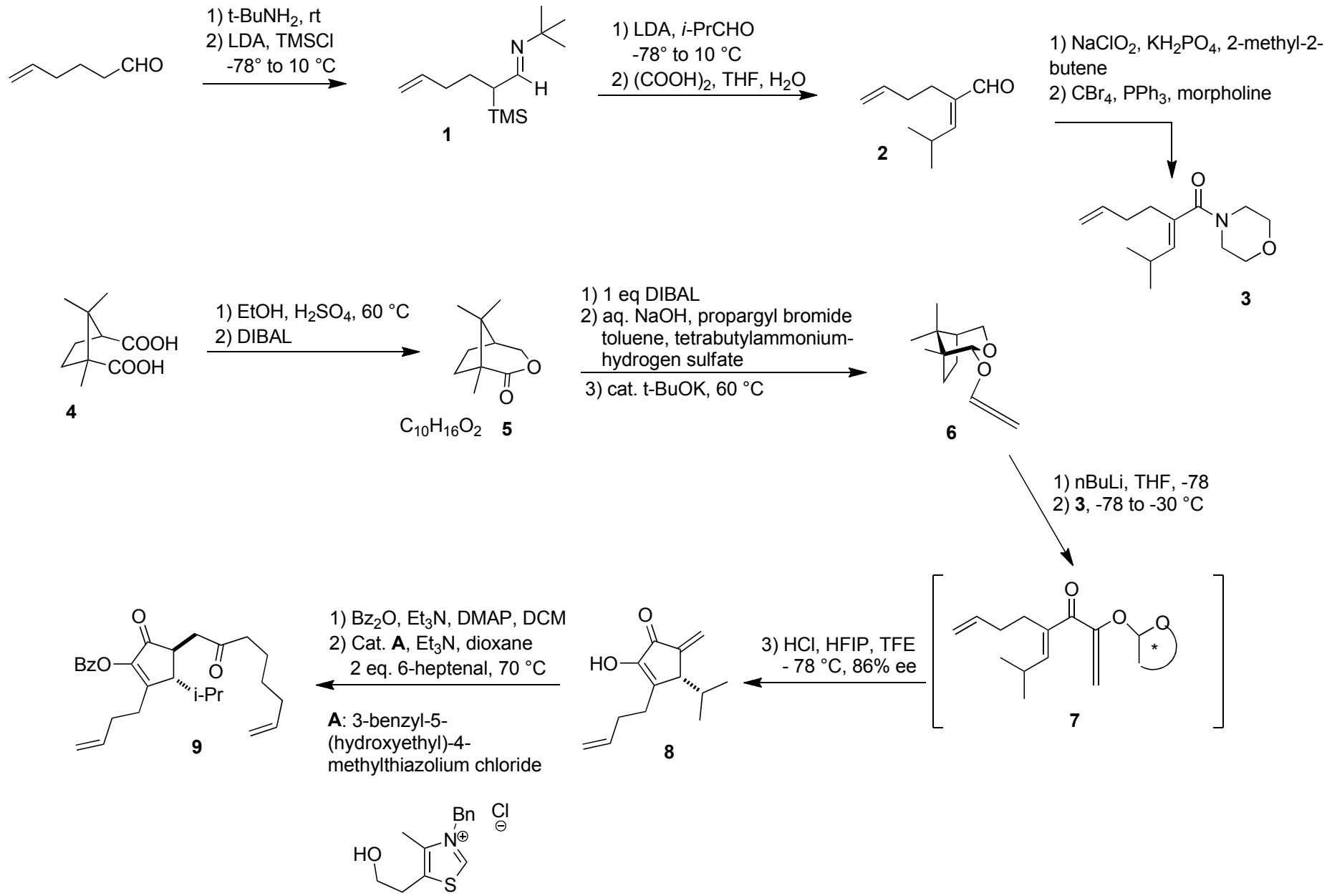
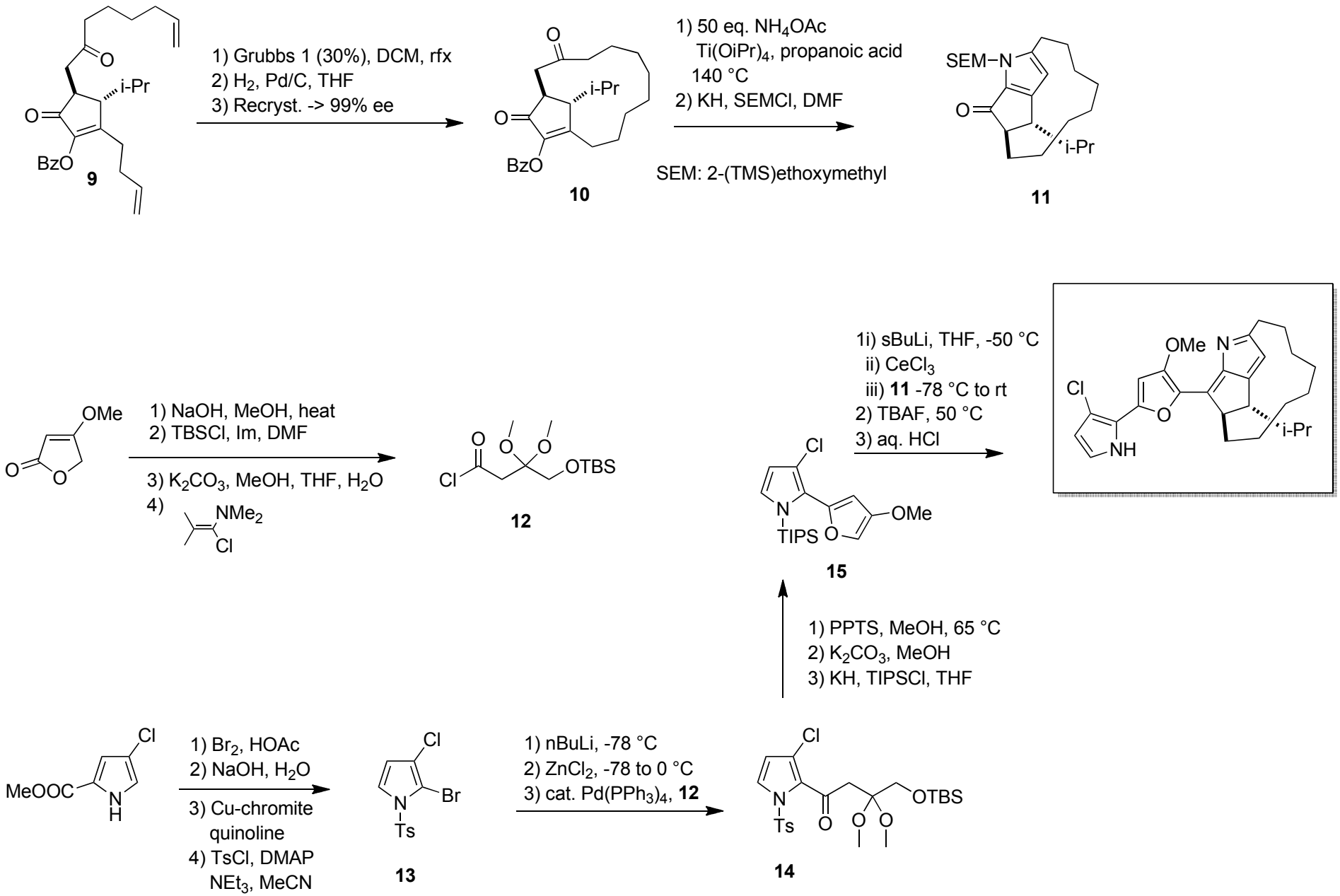
Roseophilin, Tius, M.A. (University of Hawaii) JACS 2001, 123, 8509.




1) Grubbs 1 (30%), DCM, rfx
2) H2, Pd/C, THF
3) Recryst. -> 99% ee
9
10
1) 50 eq. NH4OAc
Ti(OiPr)4, propanoic acid
140 °C
2) KH, SEMCl, DMF
SEM: 2-(TMS)ethoxymethyl
11
1) NaOH, MeOH, heat
2) TBSCl, Im, DMF
3) K2CO3, MeOH, THF, H2O
4)
12
1) PPTS, MeOH, 65 °C
2) K2CO3, MeOH
3) KH, TIPSCl, THF
15
1i) sBuLi, THF, -50 °C
ii) CeCl3
iii) 11 -78 °C to rt
2) TBAF, 50 °C
3) aq. HCl
1) Br2, HOAc
2) NaOH, H2O
3) Cu-chromite
quinoline
4) TsCl, DMAP
NEt3, MeCN
13
1) nBuLi, -78 °C
2) ZnCl2, -78 to 0 °C
3) cat. Pd(PPh3)4, 12
14