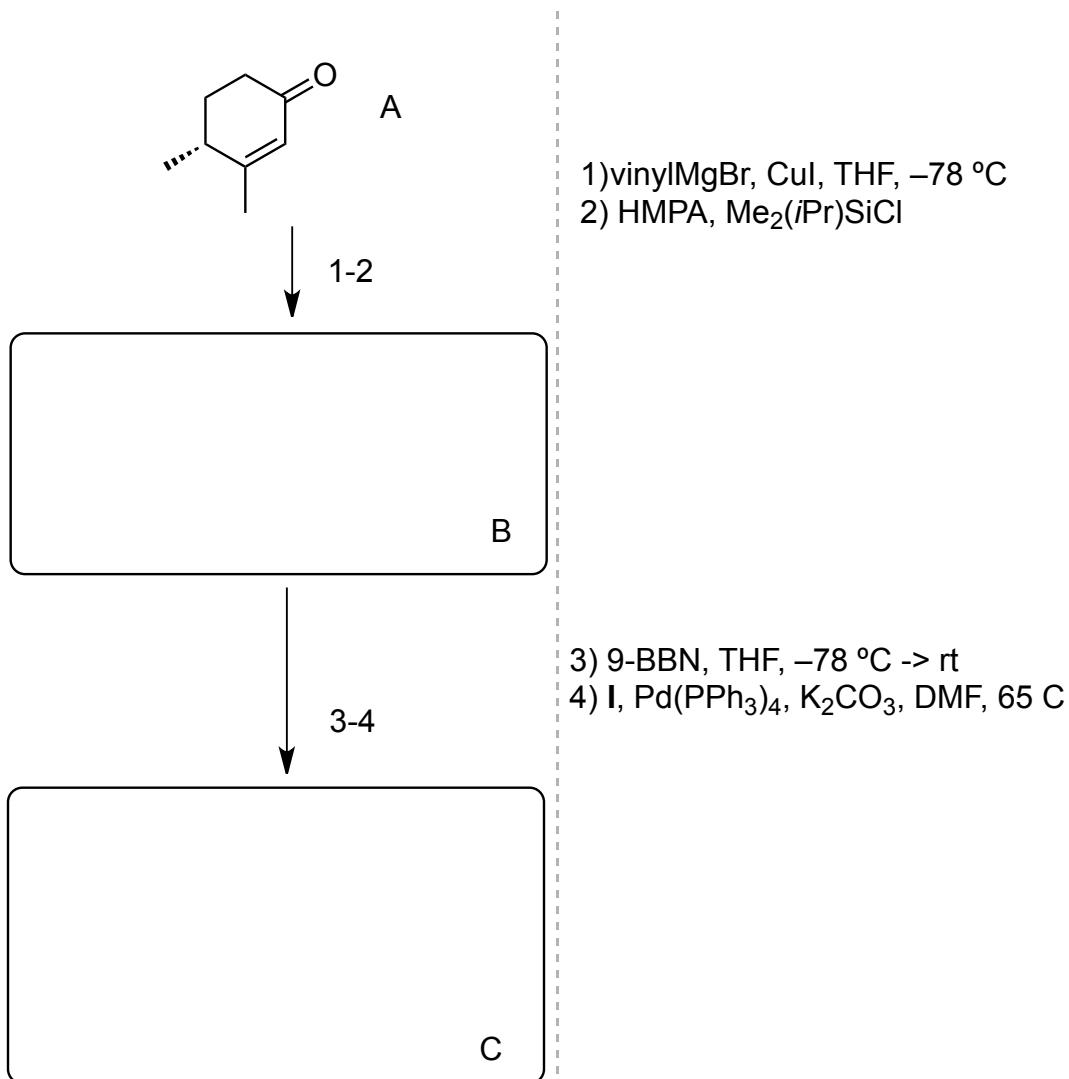


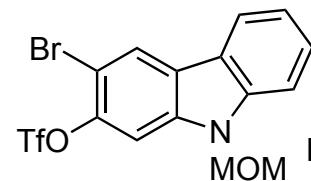
Synthesis Challenge #13 AG Wegner

JLU Giessen

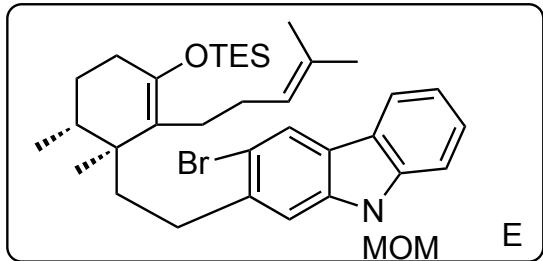
06.03.2014



Please, provide a synthesis of A!
Rationalize the chemoselectivity in step 1).



What is the name of the reaction in step 4)?



5-6

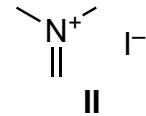
5) **II**, 18-crown-6, KF, 35 °C
6) *m*CPBA, CH₂Cl₂, -10 °C

7)

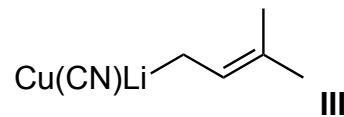
7) **III**, TESCI, THF, -78 °C

8)

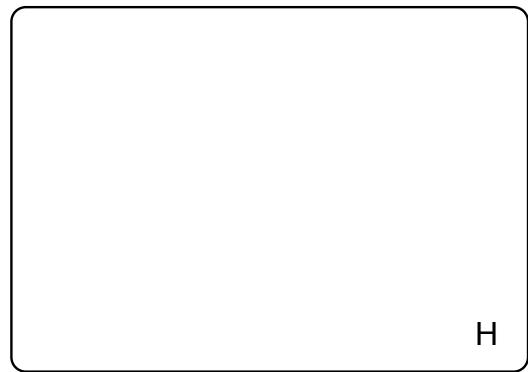
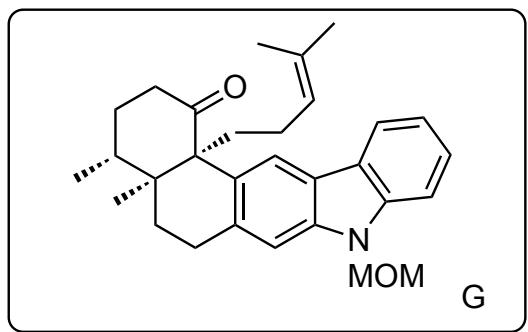
8) NaNH₂, *t*-BuOH, THF



What is the role of 18-crown-6 in step 5)?
What is the name of the reaction in step 6)?
Mechanism?



Please, provide a detailed Mechanism for step 8).



Please, draw a 3D representation of G.

- 9) 3 N HCl, ethylene glycol, THF,
55 °C
- 10) Na, *i*PrOH, PhMe