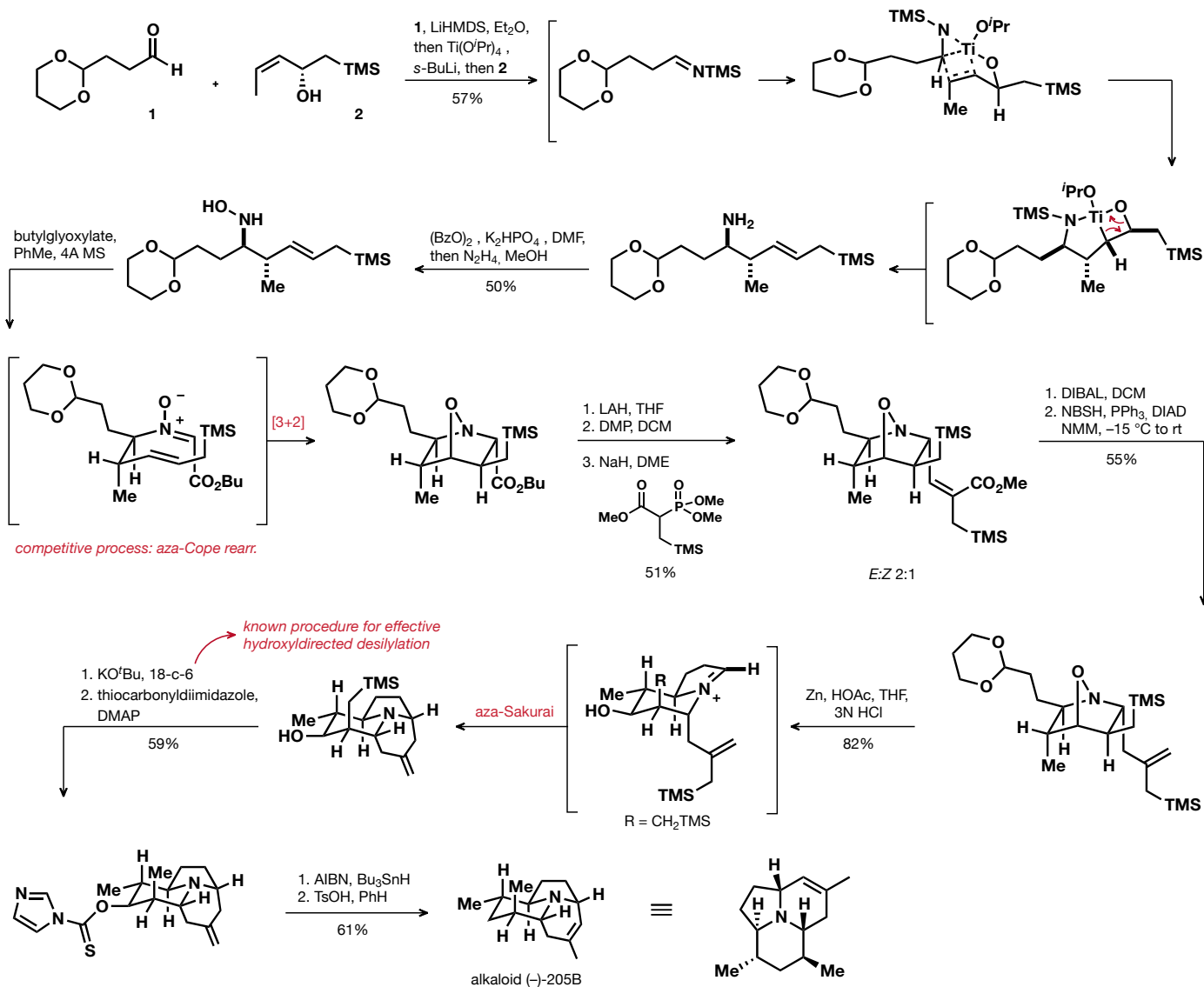


Problem Set Seminar – July 2013 – SOLUTIONS

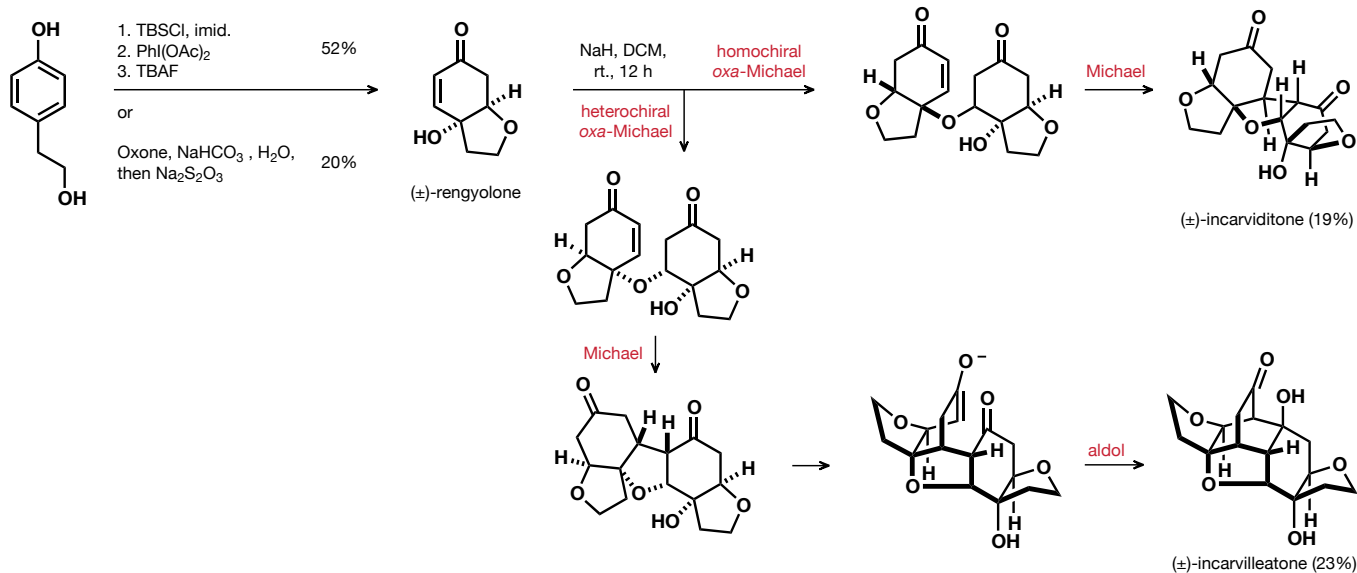
1. Total synthesis of alkaloid (–)-205B (Micalizio, 2012)

G.C. Micalizio, *JACS* **2012**, *134*, 15237.



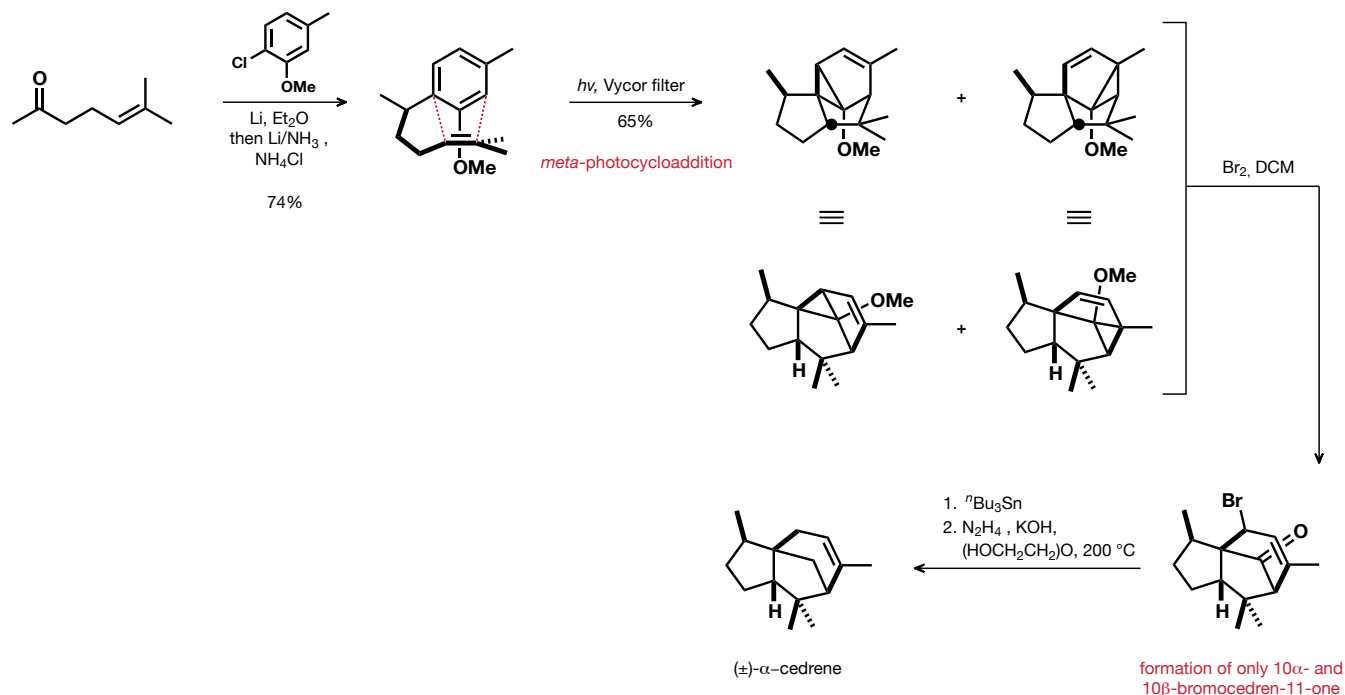
2. Total Synthesis of (±)-Incarviditone and (±)-Incarvilleatone.

A. L. Lawrence, *Org. Lett.* **2012**, *14*, 4537.  
Y. Tang, *Org. Lett.* **2012**, *14*, 4878.



3. Total synthesis of (±)-α-cedrene by P. Wender (1981)

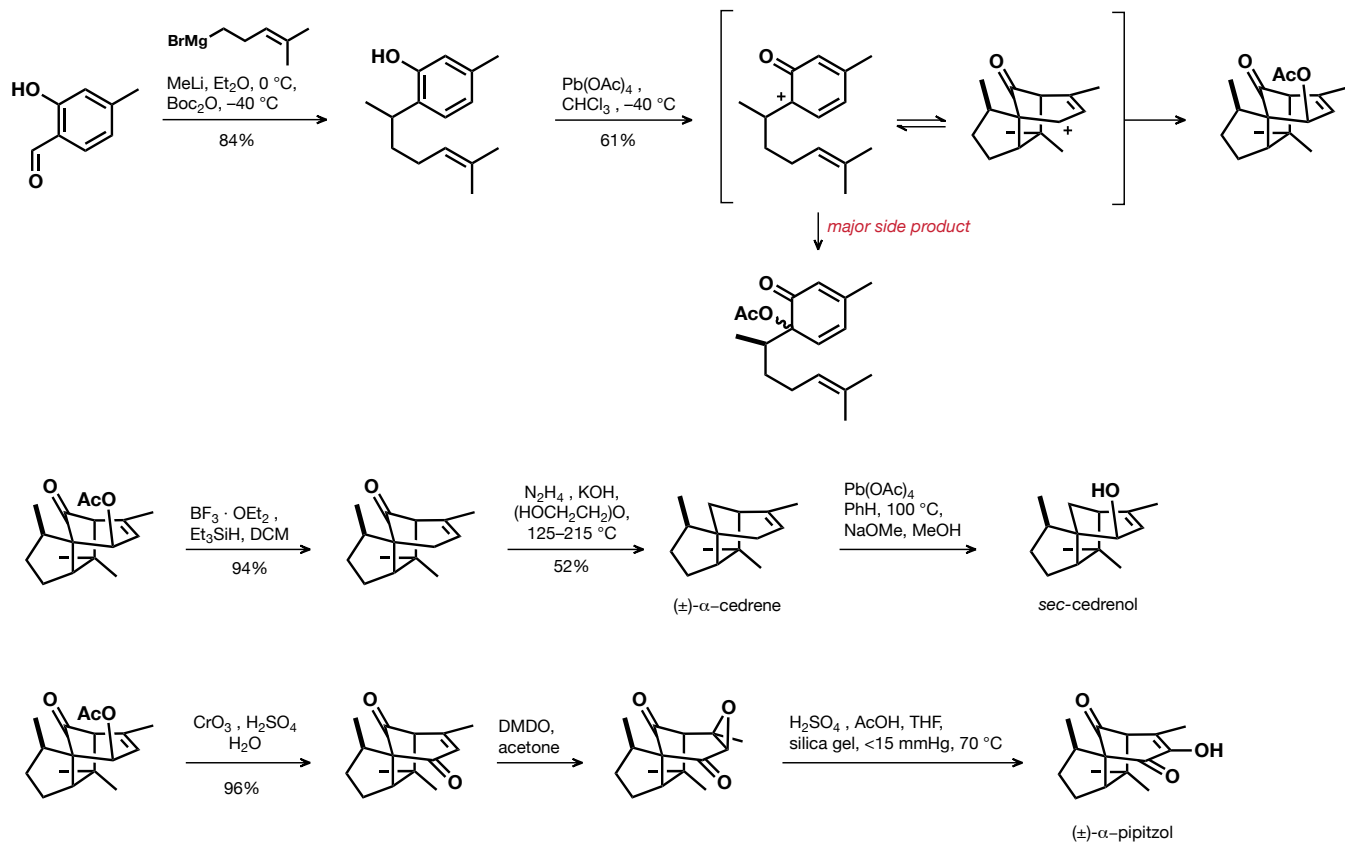
P.A. Wender, JACS 1981, 103, 688.

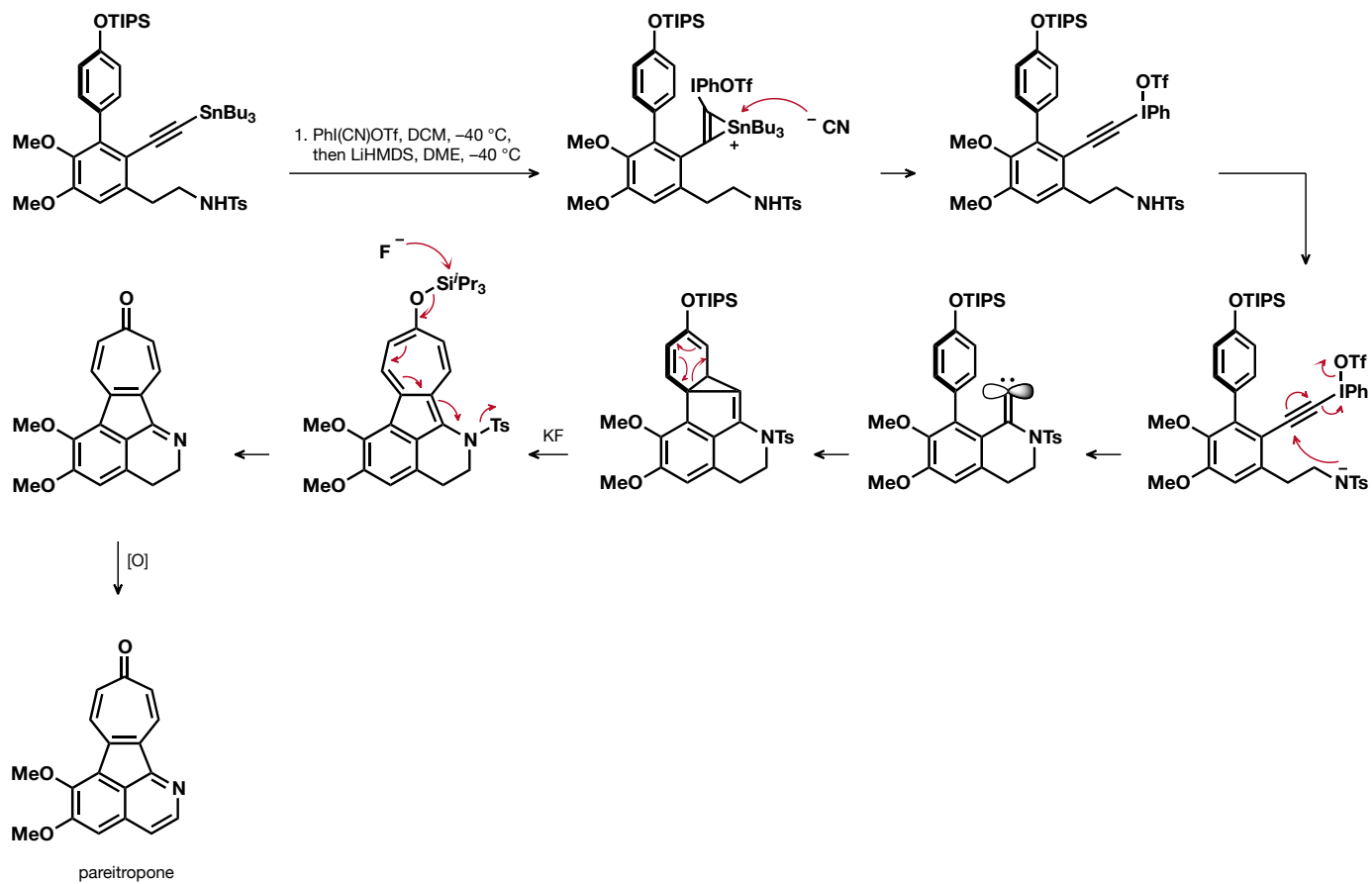


The absence of the corresponding tertiary allylic bromides is a consequence of the facile rearrangement of such intermediates to the more stable secondary allylic bromide isomers.

4. Total synthesis of (±)-α-cedrene, (±)-α-pipitzol and sec-cedrenol by R.R.Pettus (2011)

R.R. Pettus, JACS 2011, 133, 1603.





## A. Name reactions?

K.-I. Sato, *Chem. Lett.* 1994, 23, 37.