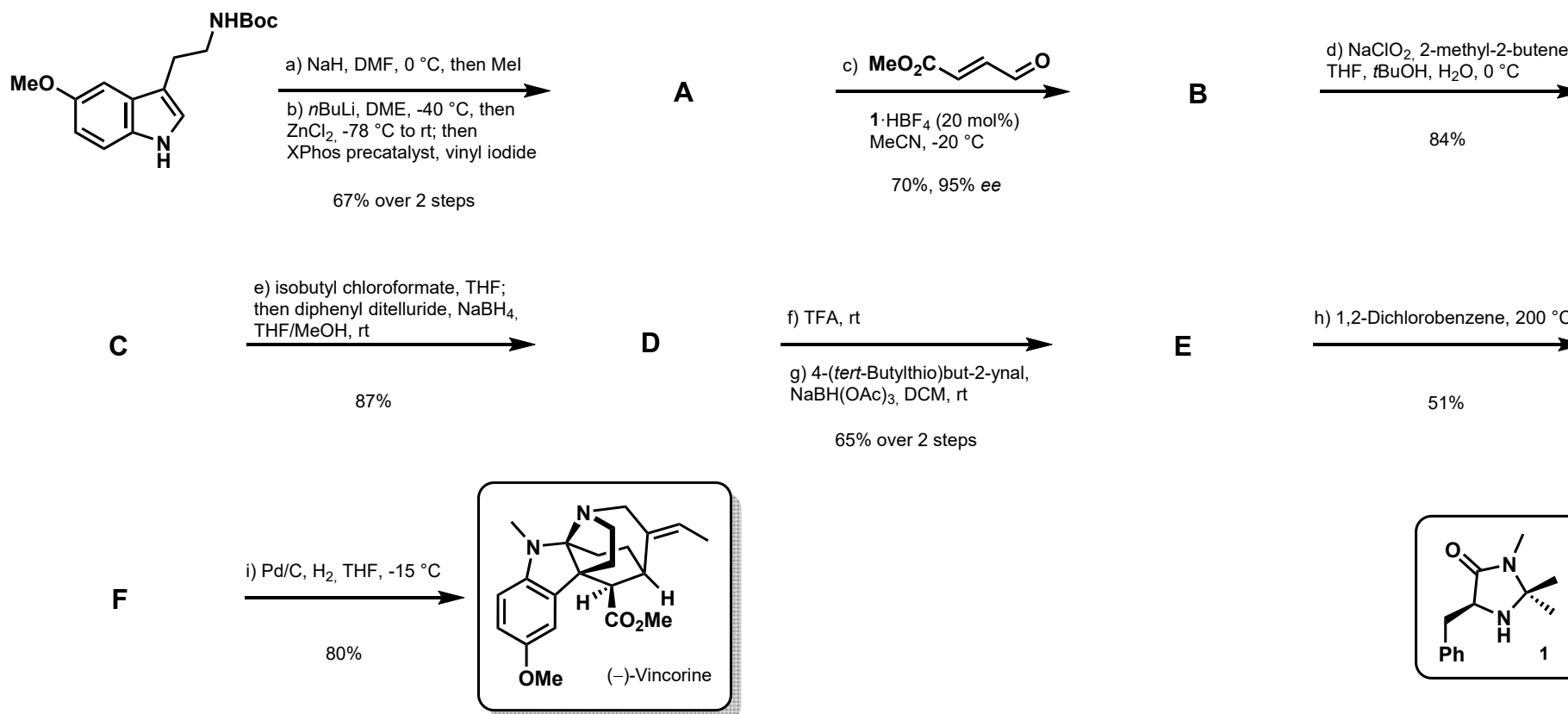


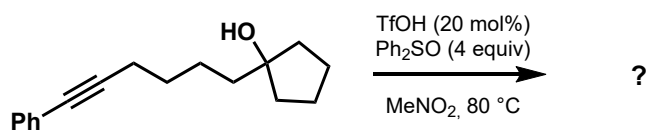
Nine-Step Enantioselective Total Synthesis of (-)-Vincorine

27.09.2017

Benjamin D. Horning and David W. C. MacMillan, *J. Am. Chem. Soc.* **2013**, *135*, 6442-6445



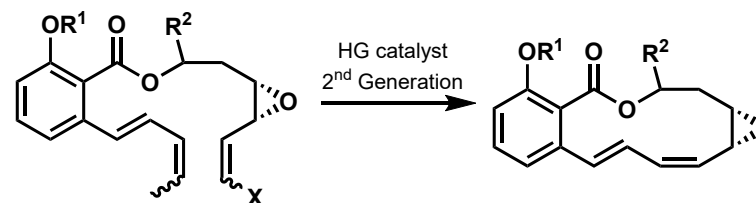
Propose a mechanism for the following reaction:



Angew. Chem. Int. Ed. **2017**, DOI: 10.1002/anie.201705964; 10.1002/ange.201705964

Circumventing synthetic problems:

Angew. Chem. Int. Ed. **2004**, *43*, 3601-3605



When X = H, the RCM leads to the desired macrocycle only in poor yields. BUT, when X is an appropriate side chain, the reaction proceeds smoothly. What would you put as X? Which is the name of this strategy?