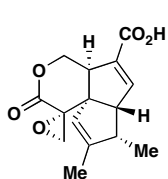
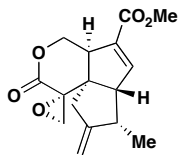


Wednesday, January 21, 2004

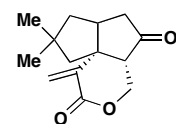
Syntheses discussed:



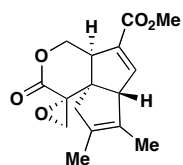
Pentalenolactone



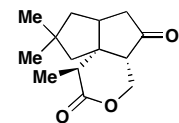
Pentalenolactone B Methyl Ester



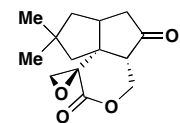
Pentalenolactone E Methyl Ester



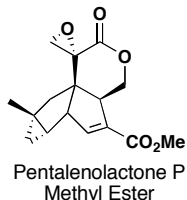
Pentalenolactone A Methyl Ester



Pentalenolactone D Methyl Ester



Pentalenolactone F Methyl Ester



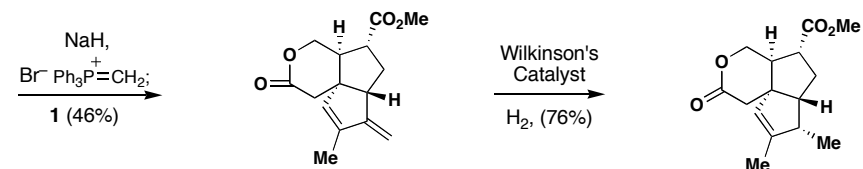
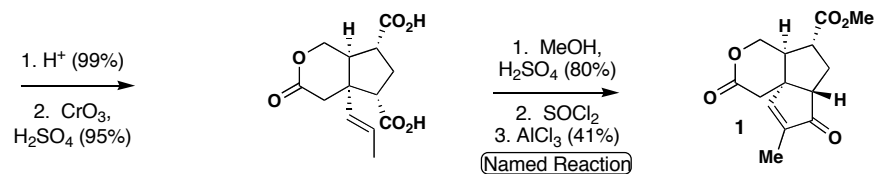
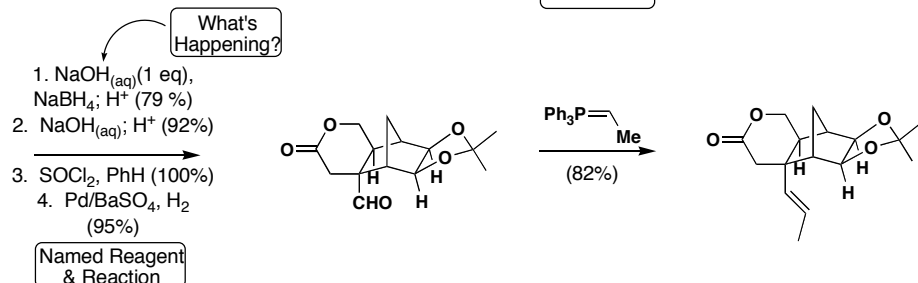
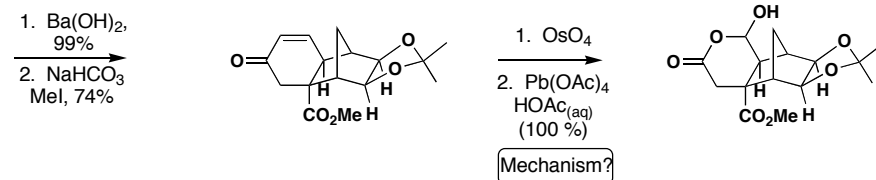
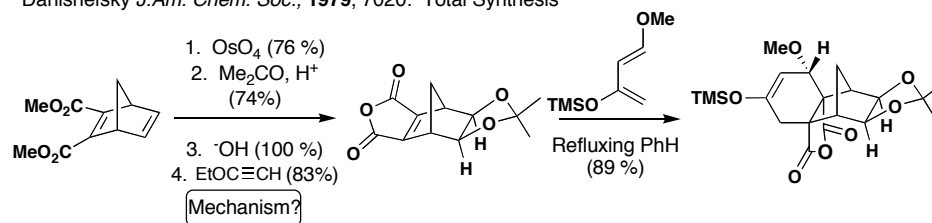
Pentalenolactone P Methyl Ester

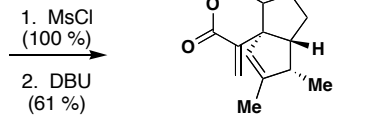
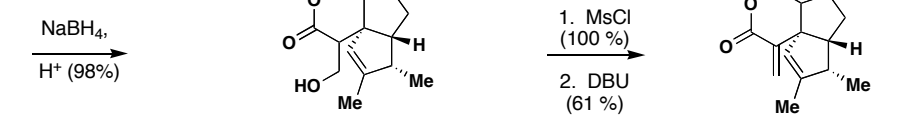
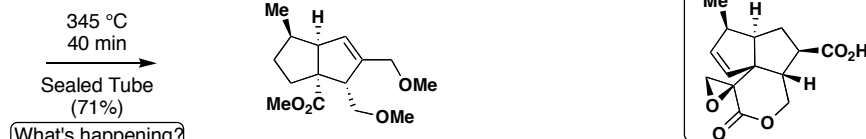
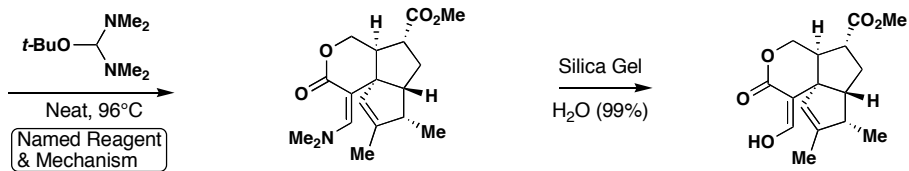
(H & O exist also)

Partial list of transforms discussed:

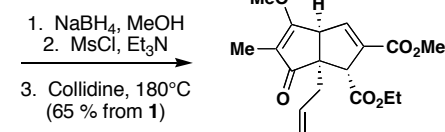
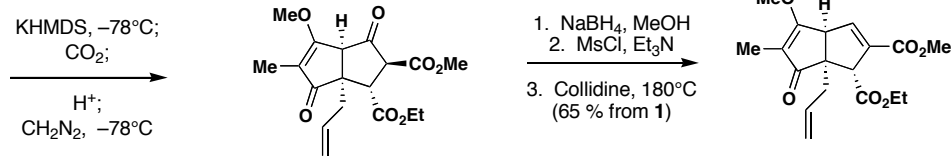
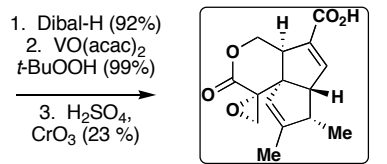
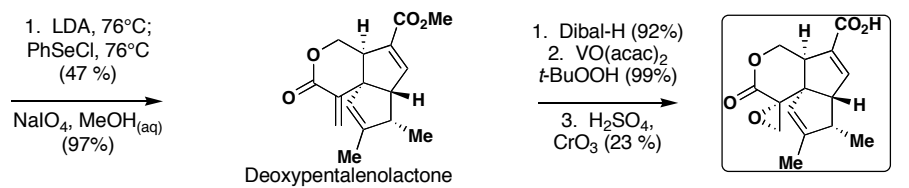
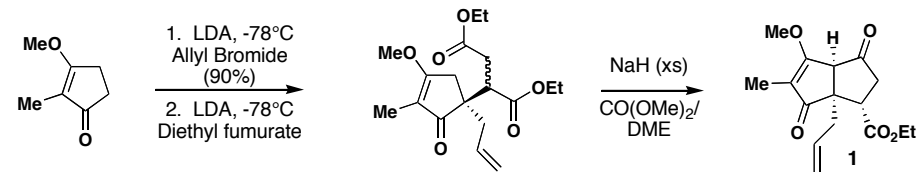
- Rosemund's Catalyst
- Rosemund Reduction
- Darzen-type Acylation
- Beredick's Reagent
- Dieckmann Condensation
- Knoevenagel Condensation
- Barton-McCombie Deoxygenation
- Eschenmoser's Salt

Danishefsky *J. Am. Chem. Soc.*, **1979**, 7020: Total Synthesis

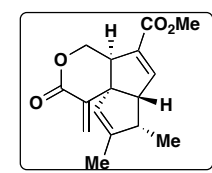
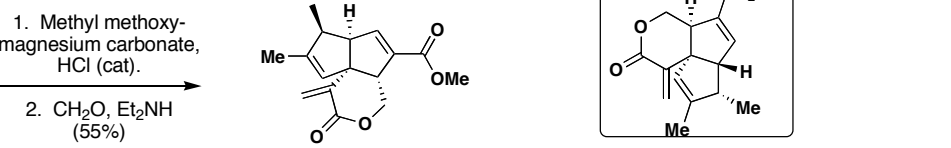
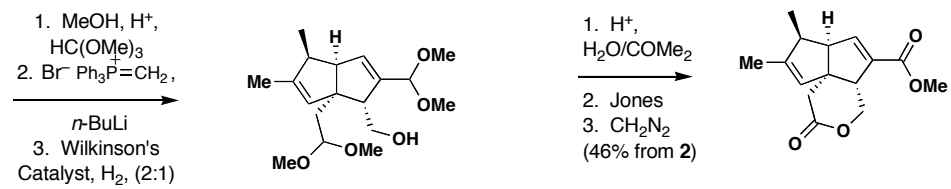
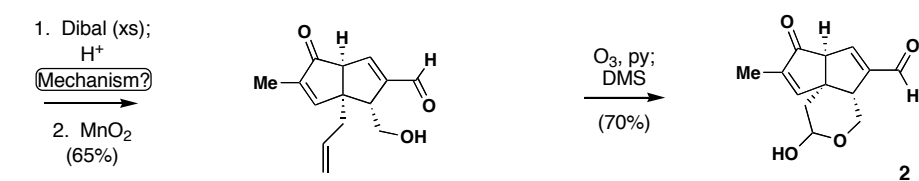
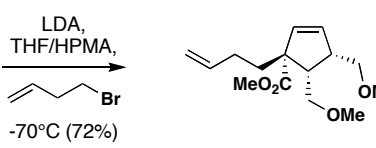
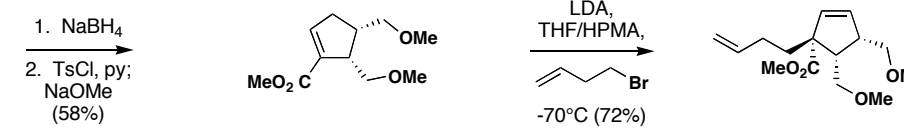
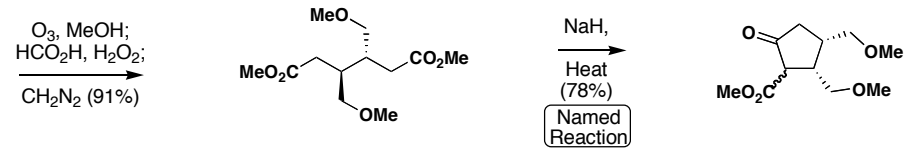
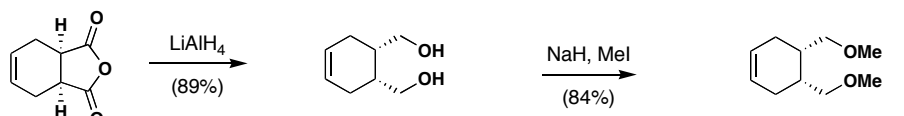




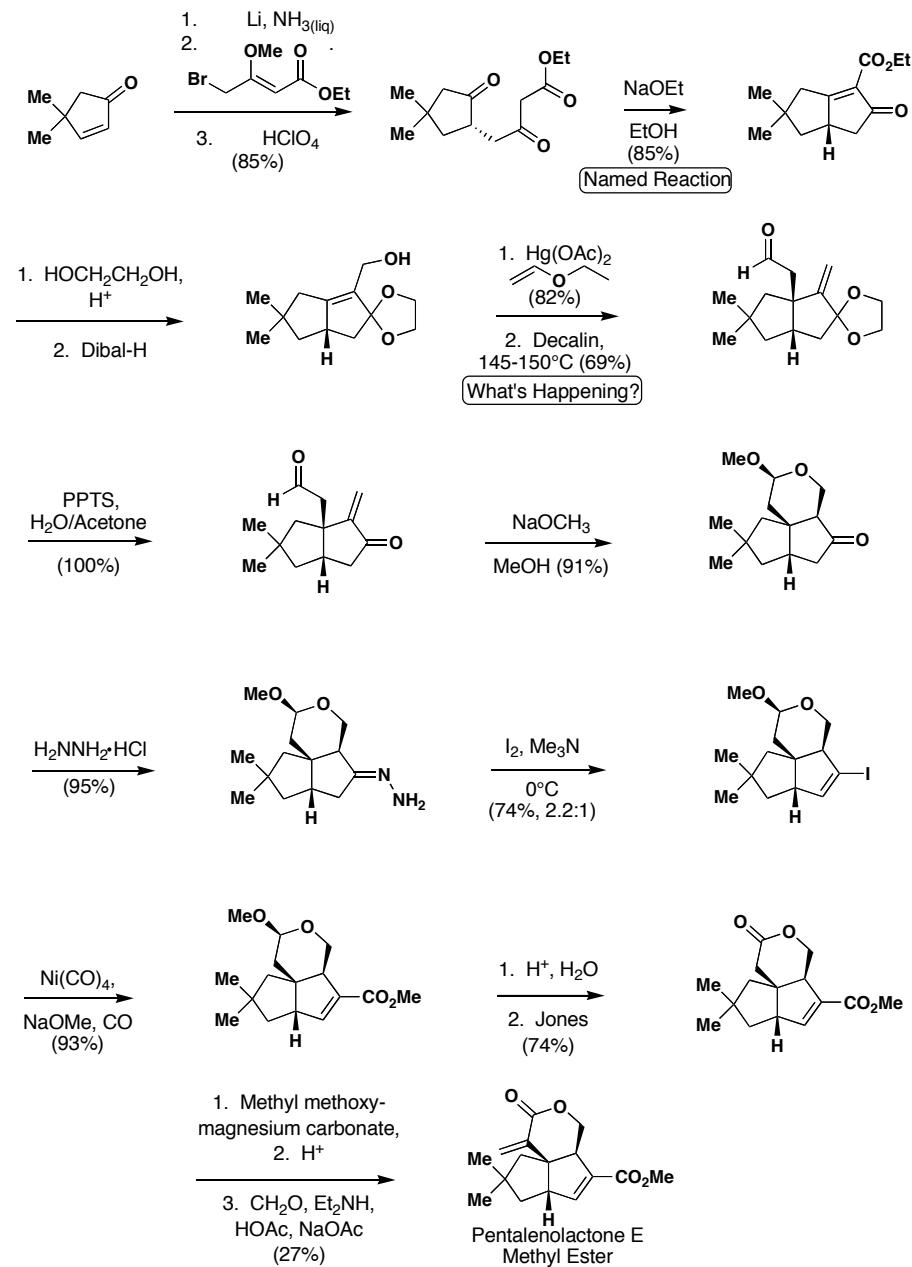
R.H. Schlessinger *J. Am. Chem. Soc.* **1980**, 889: Formal Synthesis



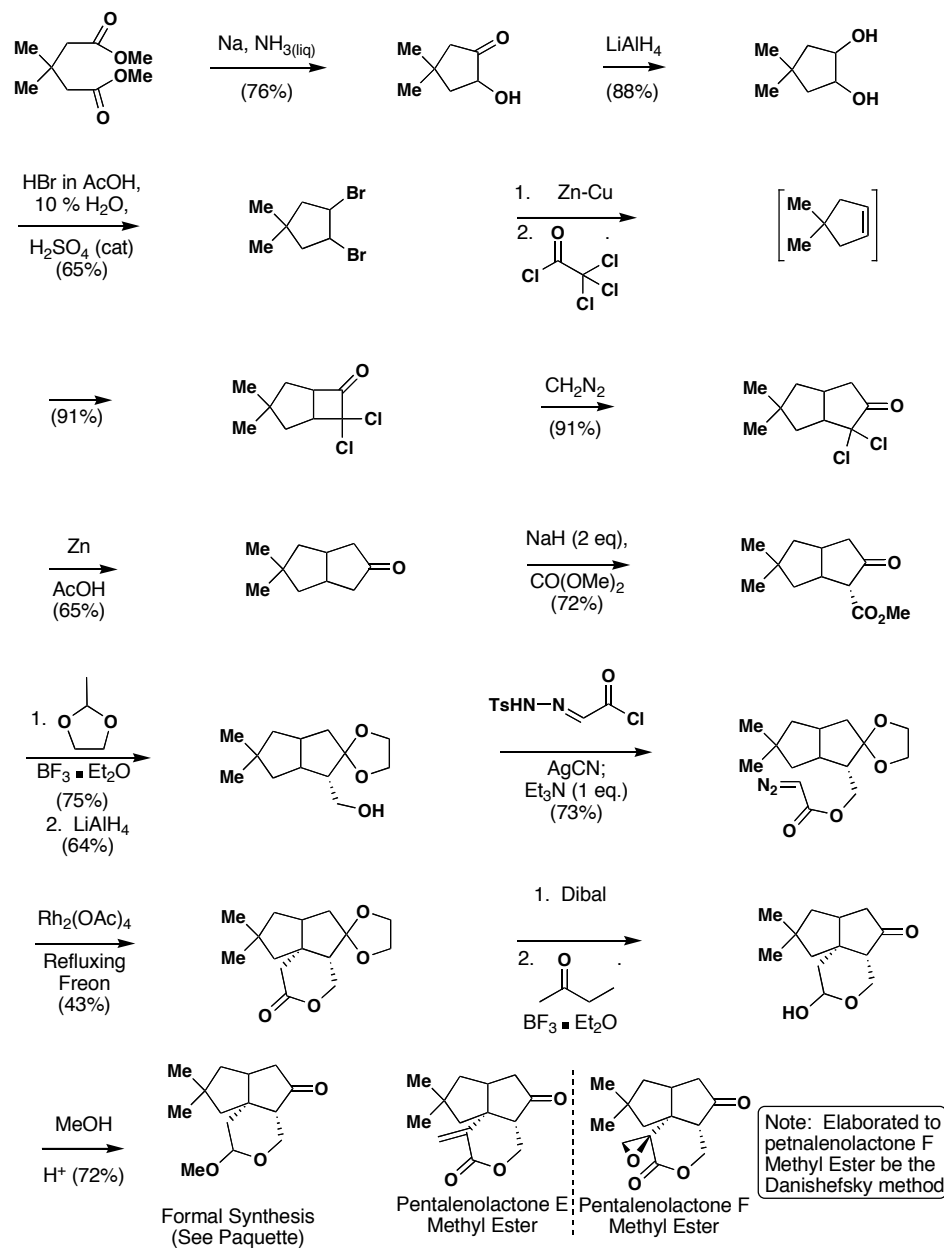
Heathcock *Tet. Lett.* **1979**, 2115: Partial Synthesis

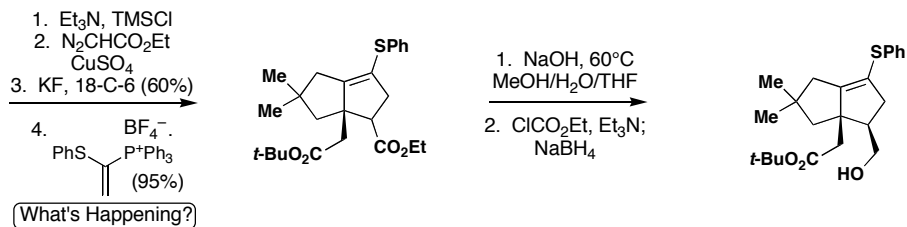
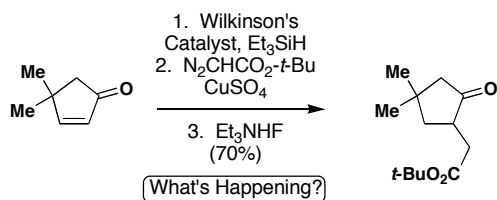
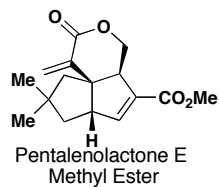
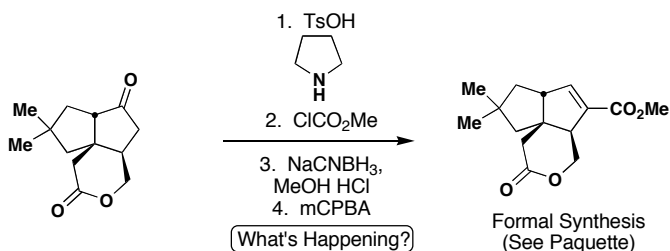
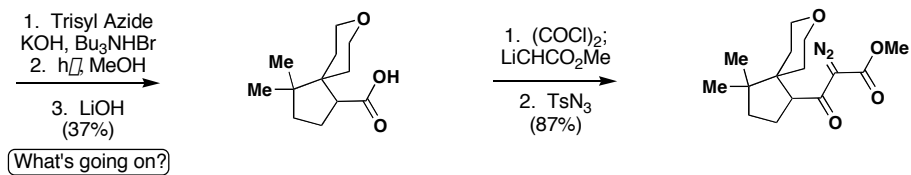
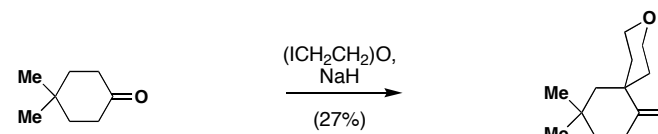
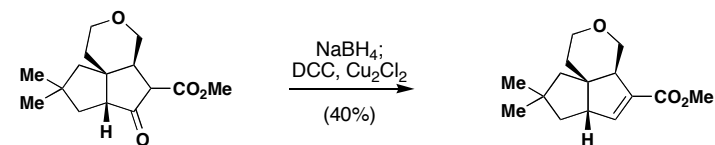


Paquette *J. Am. Chem. Soc.* **1981**, 6526: Total Synthesis

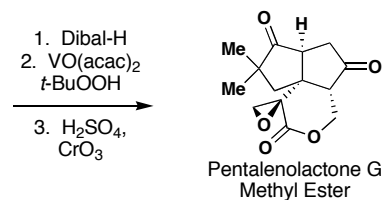
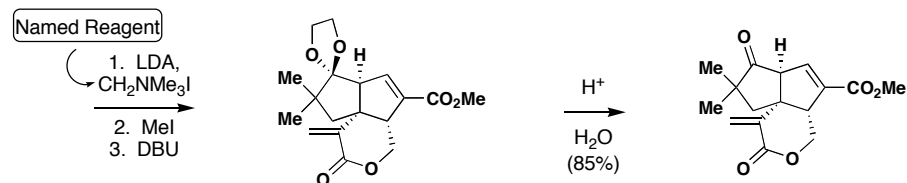
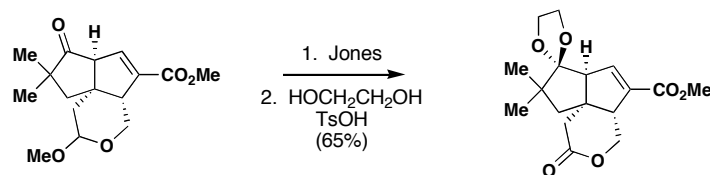
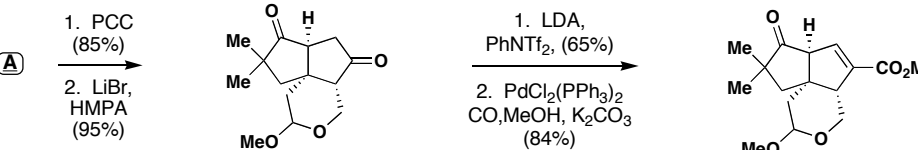
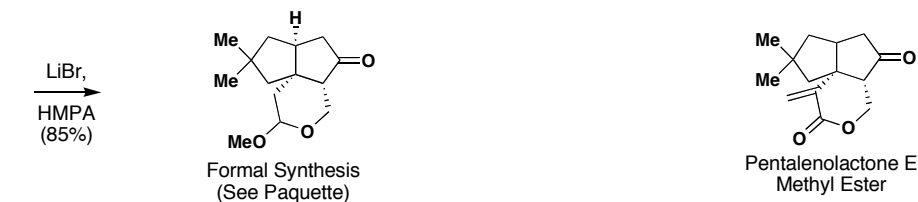
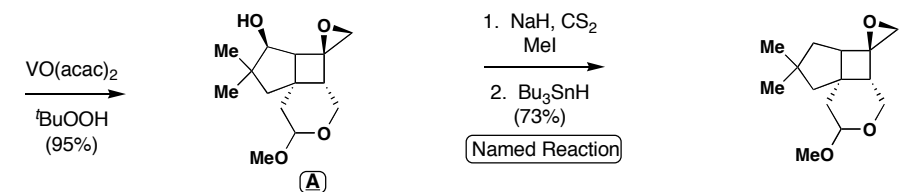
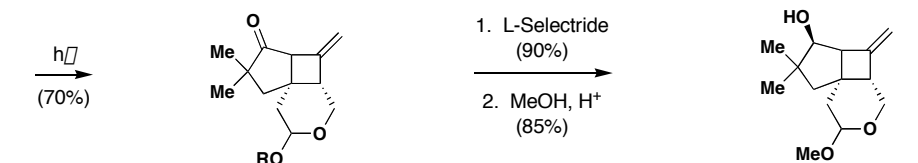
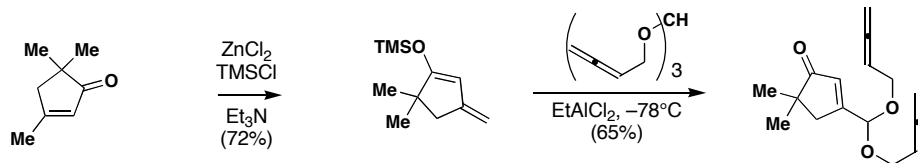


David Cane (Brown Univ.) *J. Am. Chem. Soc.* **1984**, 5295: Formal Synthesis

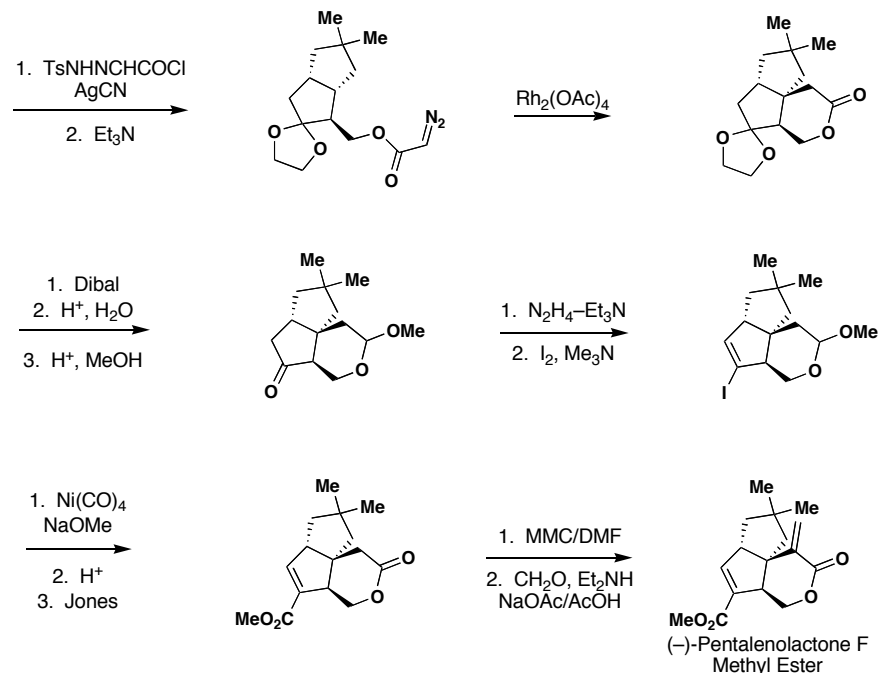
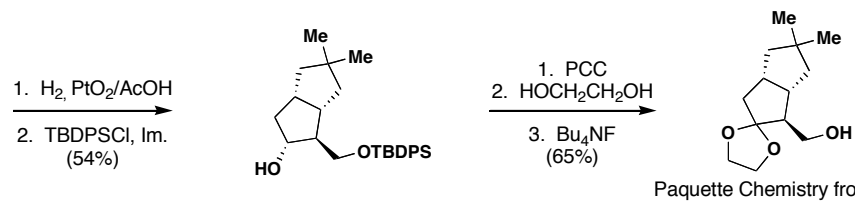
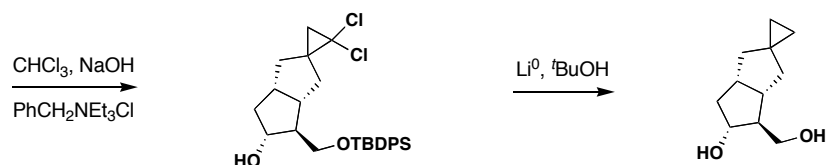
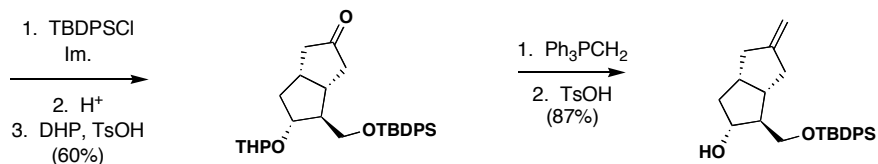
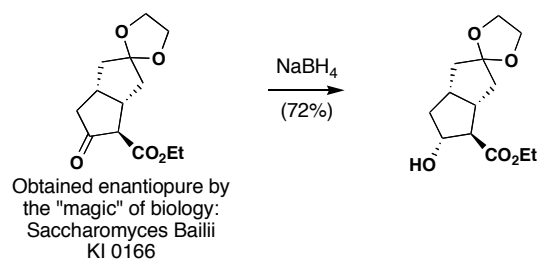


Marino, et. al. *J. Org. Chem.* **1987**, 4140: Formal SynthesisTFA
(43%)Taber *J. Am. Chem. Soc.*, **1985**, 5289: Formal Synthesis $\text{Rh}_2(\text{OAc})_4$  CrO_3 ,
HOAc
22%

Pirung *J. Org. Chem.* **1988**, 227: Formal Syntheses



Tsuji *Tet.* **1988**, 2835: Total Synthesis



Paquette *J. Am. Chem. Soc.* **1991**, 9384: Total Synthesis