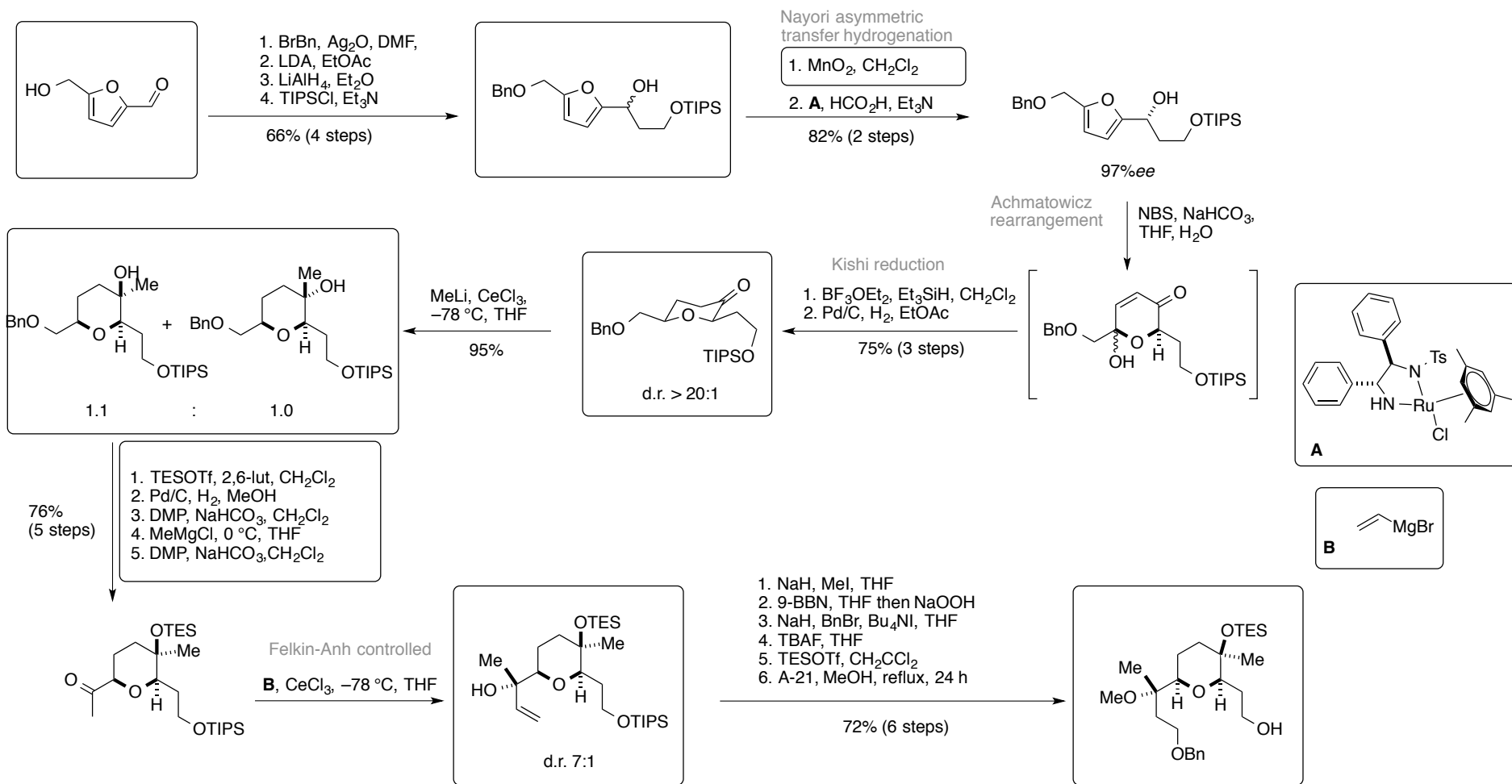
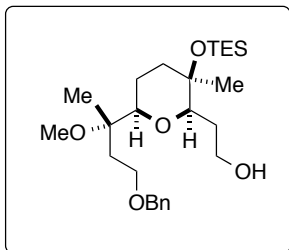


E18: Synthesis of (+)-Uprolide G Acetate^[1,2] (proposed structure 2000)



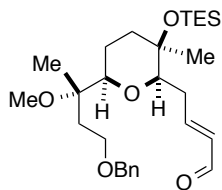
[1] L. Zhu, Y. Liu, R. Ma, R. Tong, *ACIE* **2015**, *54*, 627-632.

[2] L. Zhu, R. Tong, *Synlett* **2015**, *26*, 1643-1648.



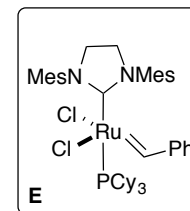
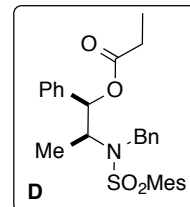
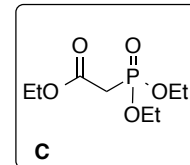
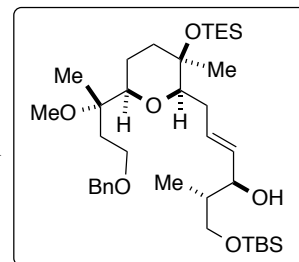
Horner-Wadsworth-Emmons

1. DMP, NaHCO₃, CH₂Cl₂
 2. NaH, **C**, THF
 3. DIBAL-H, CH₂Cl₂
 4. DMP, NaHCO₃, CH₂Cl₂
- 81% (4 steps)

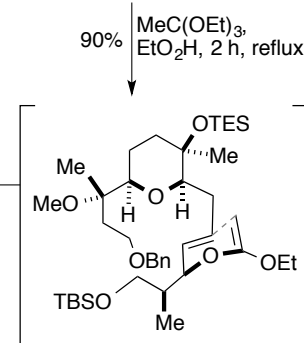
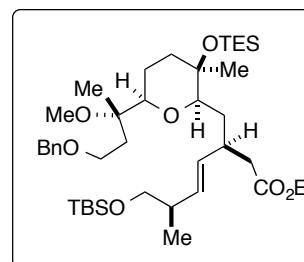
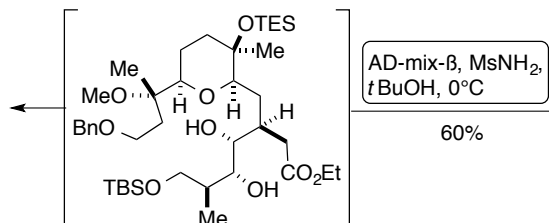


Abiko-Masamune Aldol

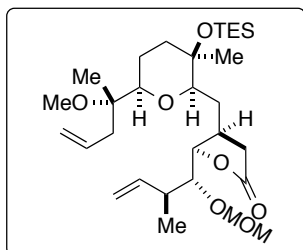
1. (*c*-hex)₂BOTf, Et₃N, **D**, CH₂Cl₂
 2. LiAlH₄, THF
 3. TBSCl, Et₃N, CH₂Cl₂
- 56% (3 steps)



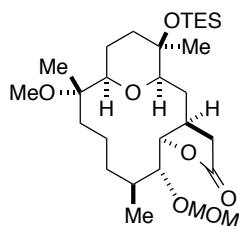
Sharpless AD lactonization



1. MOMCl, CH₂Cl₂
 2. Pd(OH)₂/H₂, MeOH
 3. DMP, NaHCO₃, CH₂Cl₂
 4. Ph₃P=CH₂, THF
 5. AcOH/THF/H₂O, rt, 12 h
 6. DMP, NaHCO₃, CH₂Cl₂
 7. Ph₃P=CH₂, THF
- 51% (7 steps)



1. **E**, CH₂Cl₂, reflux, 12 h
 2. Pd/C, H₂, EtOAc
- 75% (2 steps)



1. LDA, CH₂O (g), THF then MsCl; DBU
 2. TFA, CH₂Cl₂
 3. Ac₂O, pyridine
- 30% (3 steps)

