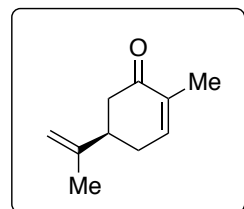
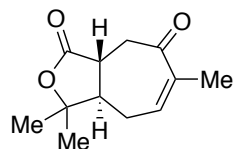


E37: Total Synthesis of (+)-19-dehydroxyl arisandilactone A [1]

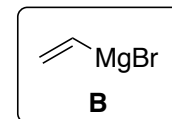
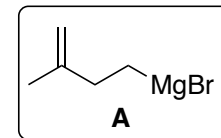
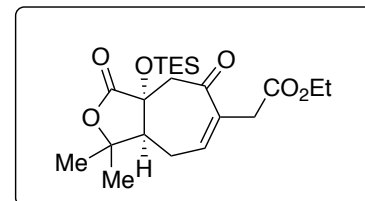


(-)- Carvone

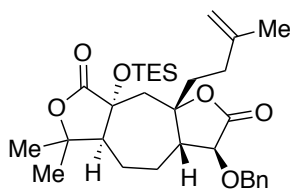
- 1) LiHMDS, ClCO₂Me
- 2) Et₂Zn, HCO₂H, CH₂I₂
- 3) LiOH
- 4) AgOTf



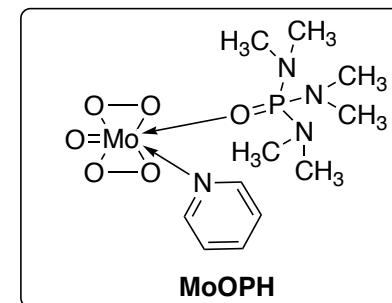
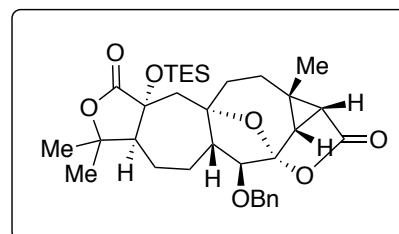
- 5) (CH₂OTMS)₂, TMSOTf
- 6) KHMDS, O₂, P(OMe)₃, then TESCI
- 7) SeO₂, 4 Å MS, AcOH, AC₂O
- 8) CBr₄, PPh₃, *i*-Pr₂NET, then Pd₂(dba)₃ CO, PivOCs, EtOH
- 9) PPTS



- 10) Pd/C, H₂
- 11) **A**
- 12) LiHMDS, LiCl, MoOPH
- 13) BnBr, Ag₂O

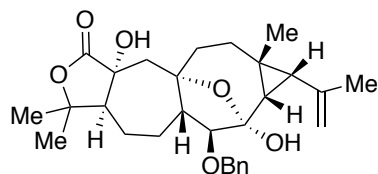


- 14) **B**
- 15) **C**
- 16) AC₂O, TEA
- 17) LiHMDS, CF₃CO₂CH₂CF₃
- 18) TsN₃, TEA
- 19) Cu(tbs)₂

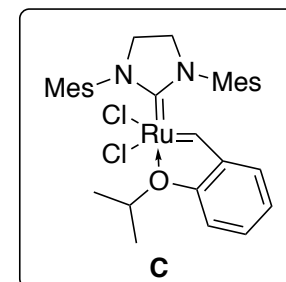
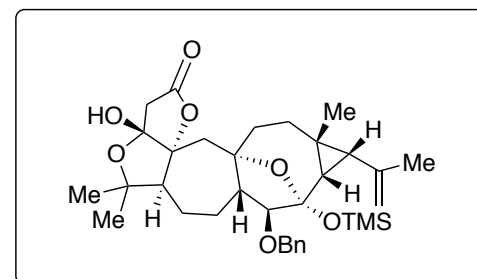


- 20) MeNH₂OMeCl, *i*-PrMgCl
- 21) MeMgCl
- 22) TMSCH₂MgCl, CeCl₃
- 23) TBAF

Peterson olefination

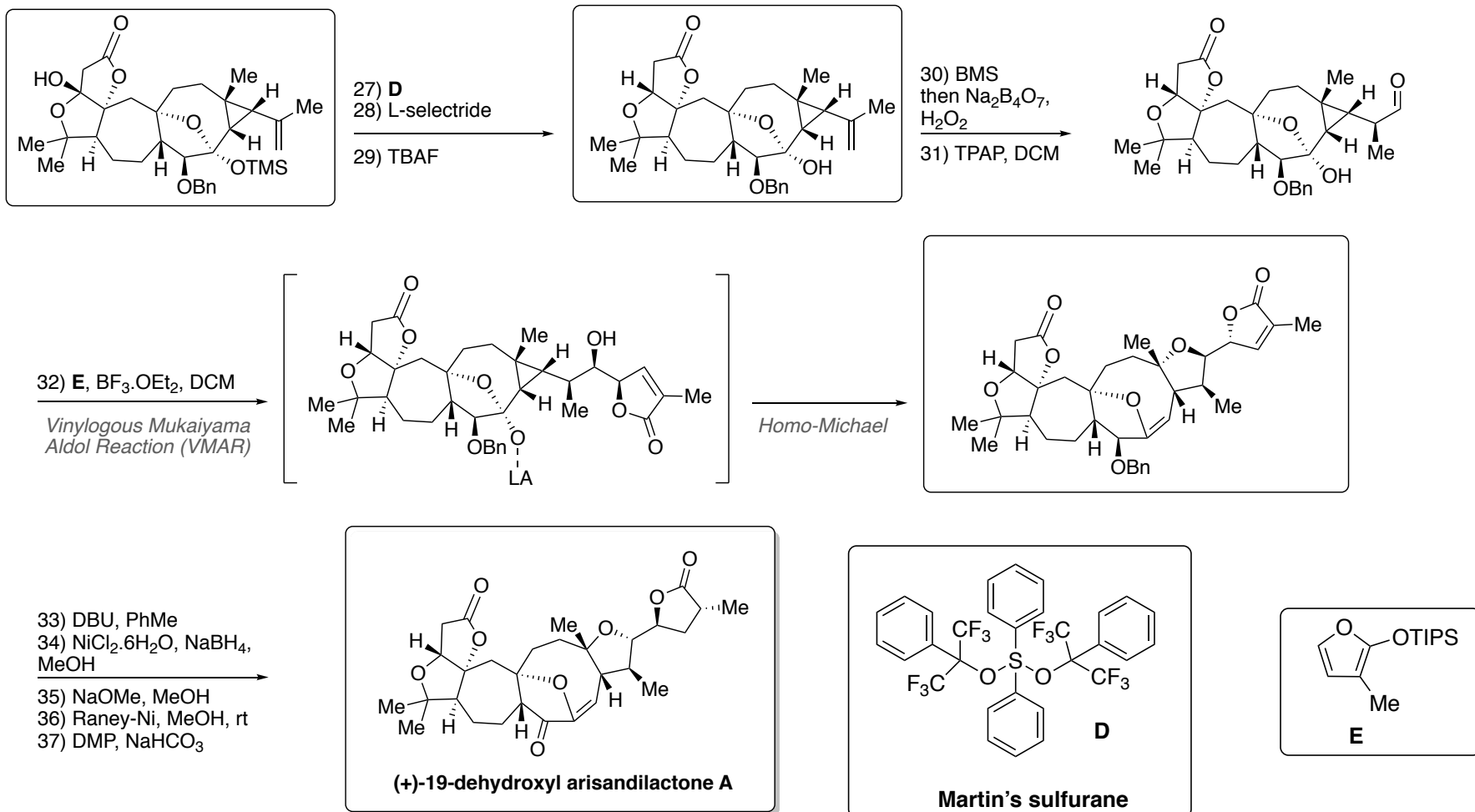


- 24) TMS-imid
 - 25) Ac₂O, NEt₃
 - 26) LiHMDS
- Dieckman type condensation*



[1] Y-X. Han, Y-L. Jiang, Y. Li, H-X. Yu, B-Q. Tong, Z. Niu, S-J. Zhou, S. Liu, Y. Lan, J-H. Chen, Z. Yang, *Nature Comm.* **2017**, *8*, 14233.

E37: Total Synthesis of (+)-19-dehydroxyl arisandilactone A ^[1]



^[1] Y-X. Han, Y-L. Jiang, Y. Li, H-X. Yu, B-Q. Tong, Z. Niu, S-J. Zhou, S. Liu, Y. Lan, J-H. Chen, Z. Yang, *Nature Comm.* **2017**, 8, 14233.