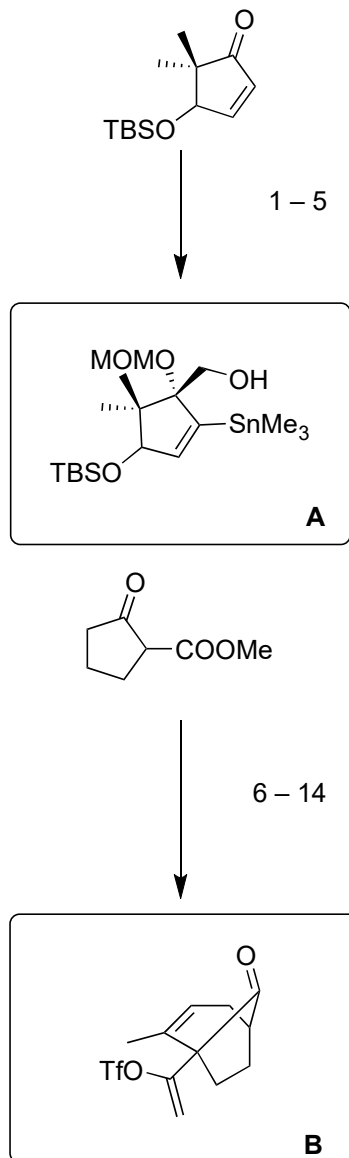
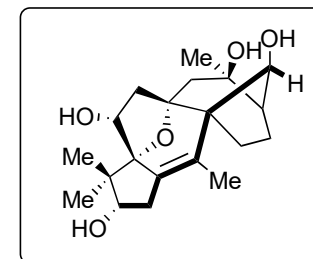


Total Synthesis of Mollanol A
Yuran Wang; Rong Zhao and Ming Yang*
J. Am. Chem. Soc. 2022, **144**, 15033-15037.



- 1) DMAP, I₂
- 2) VinylMgBr
- 3) MOMBr, NaI, DIPEA
- 4) O₃, then NaBH₄
- 5) Me₆Sn₂, Pd(PPh₃)₄

- 6) NaH, *n*-BuLi, 1-bromo-2-butyne
- 7) InCl₃
- 8) BzOOC-*t*-Bu, CuBr
- 9) NaBH₄
- 10) MOMBr, DIPEA
- 11) TMSCH₂Li then MeOH
- 12) TESOTf
- 13) Comins' reagent then 1M HCl (aq.)
- 14) PDC

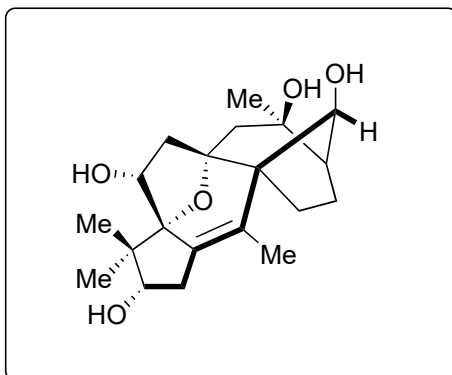


7. Hint: The reaction is usually catalysed by gold.
 Name of the reaction?
 Conia-ene cyclization

11. Hint: Two reactions happened.

A + B

15 – 20



- 15) $\text{Pd(PPh}_3)_4$, CuCl
- 16) DMP
- 17) Triazabicyclodecene (TBD), then PPTS
- 18) MeLi , then TBAF
- 19) Li/NH_3 (l)
- 20) 6M HCl

- 15) Name of the reaction?
Stille coupling