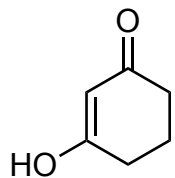
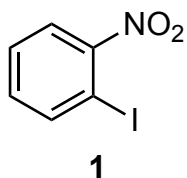


Total Synthesis of (±)-Aspidophylline

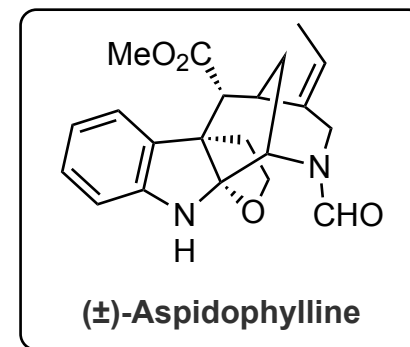
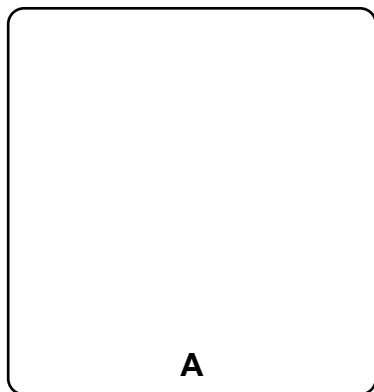
W. Ren, Q. Wang, J. Zhu, *Angew. Chem. Int. Ed.* **2014**, *53*, 1818–1821.



- 1) K_2CO_3 , **1**
- 2) K_2CO_3 , allyl bromide
- 3) Toluene, 180 °C
- 4) $TMSCl$, DMAP, Et_3N
- 5) CsF , $PhNTf_2$
- 6) NH_4OAc , $TiCl_3$

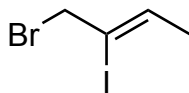
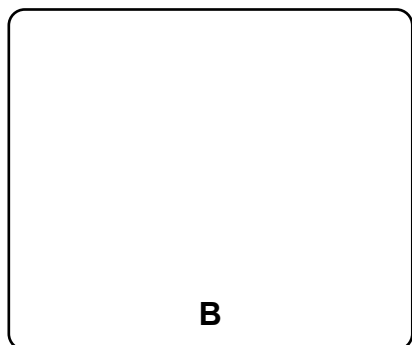


3) Named reaction?



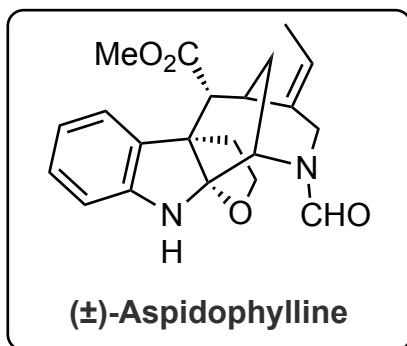
A

- 7) NaH, ClCO₂Me
- 8) OsO₄, NMO *then* NaIO₄
- 9) NaBH₄ *then* HCl (1 M)
- 10) Pd(PPh₃)₄, Et₃N, CO, MeOH
- 11) TMSOTf, 2,6-lutidine



2

- 12) NaN₃, CAN
- 13) PPh₃, H₂O
- 14) Cs₂CO₃, **2**
- 15) *t*-BuLi, HMPA, TMSCl
- 16) Ac₂O, formic acid
- 17) NaOMe, MeOH



- 8) Named reaction?
- 9) Two reactions take place

- 12) Azidoalkoxylation
- 13) Named reaction?

