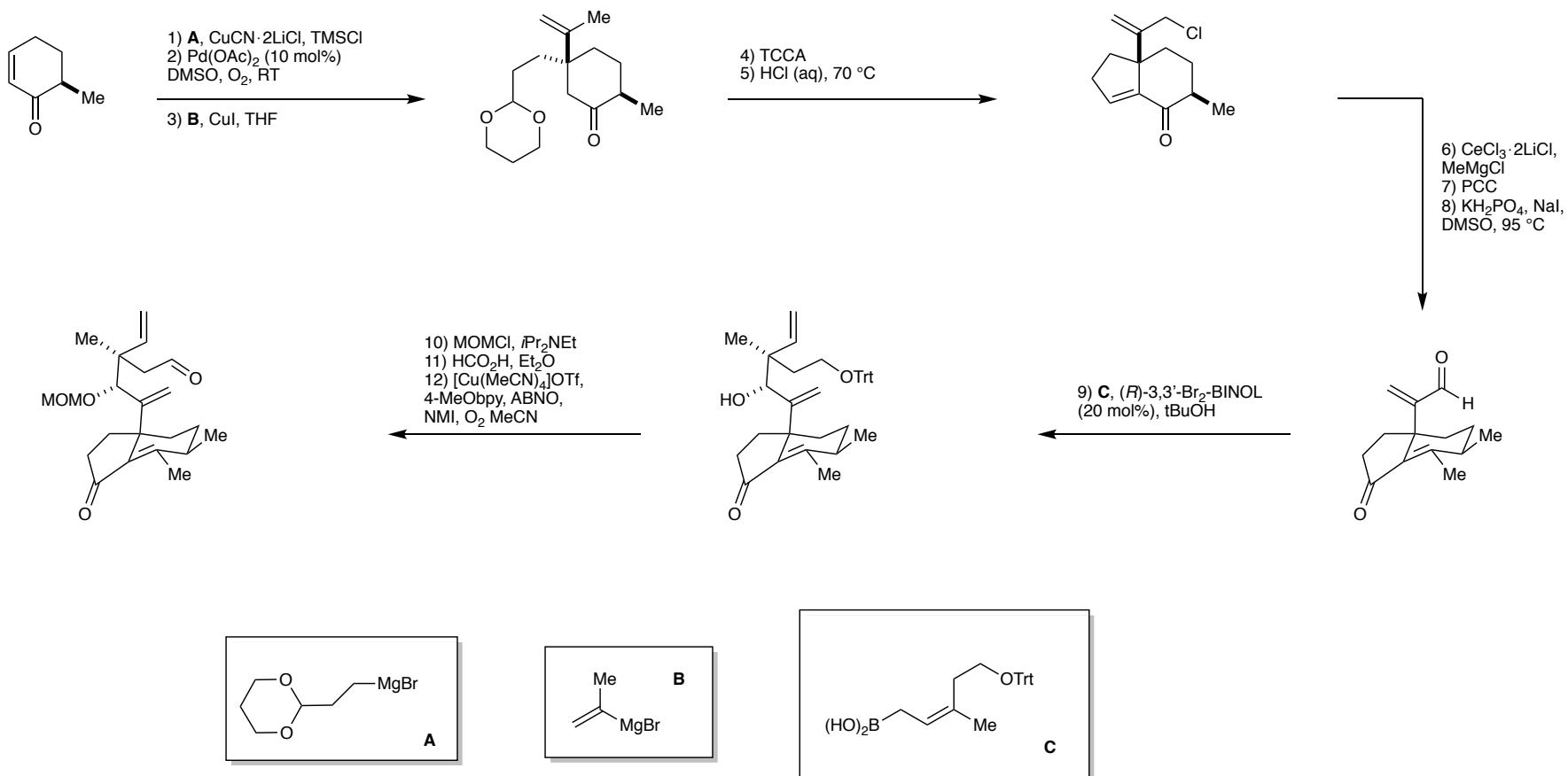
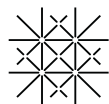


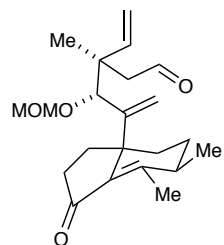
E68: (+)-Pleuromutilin^[1] and (+)-Furanomycin^[2]



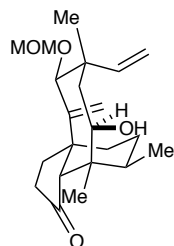
^[1] E. P. Farney, S. S. Feng, F. Schäfers, S. E. Reisman, *J. Am. Chem. Soc.* **2018**, *140*, 1267

^[2] M.P. VanBrunt, R. F. Standaert, *Org. Lett.* **2000**, *2*, 705

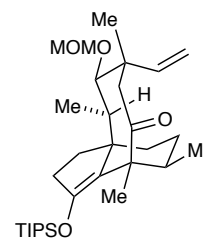




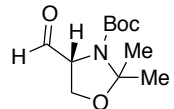
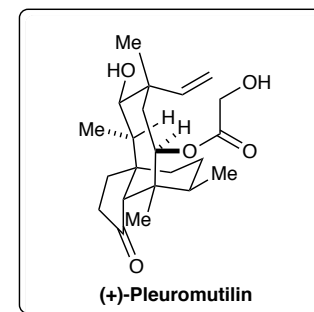
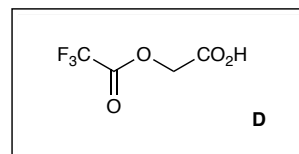
13) SmI_2 , H_2O , THF,
then TMSCl



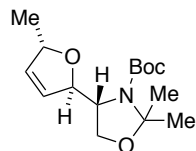
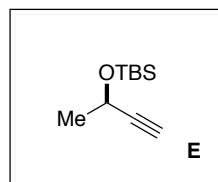
14) LiHMDS , TIPSOTf
15) $\text{Mn}(\text{dpm})_3$ (13 mol%),
 PhSiH_3 , TBHP , $i\text{PrOH}$



16) Li/NH_3 , EtOH
17) **D**, EDCI , DMAP
18) MeOH , Et_3N
19) HCl/THF , 50°C



1) **E**, $n\text{BuLi}$, ZnBr_2
2) LiAlH_4
3) $\text{AgNO}_3/\text{CaCO}_3$



4) TsOH
5) DMP
6) NaClO_2 , NaH_2PO_4 ,
 $t\text{BuOH}$, H_2O
7) TFA

