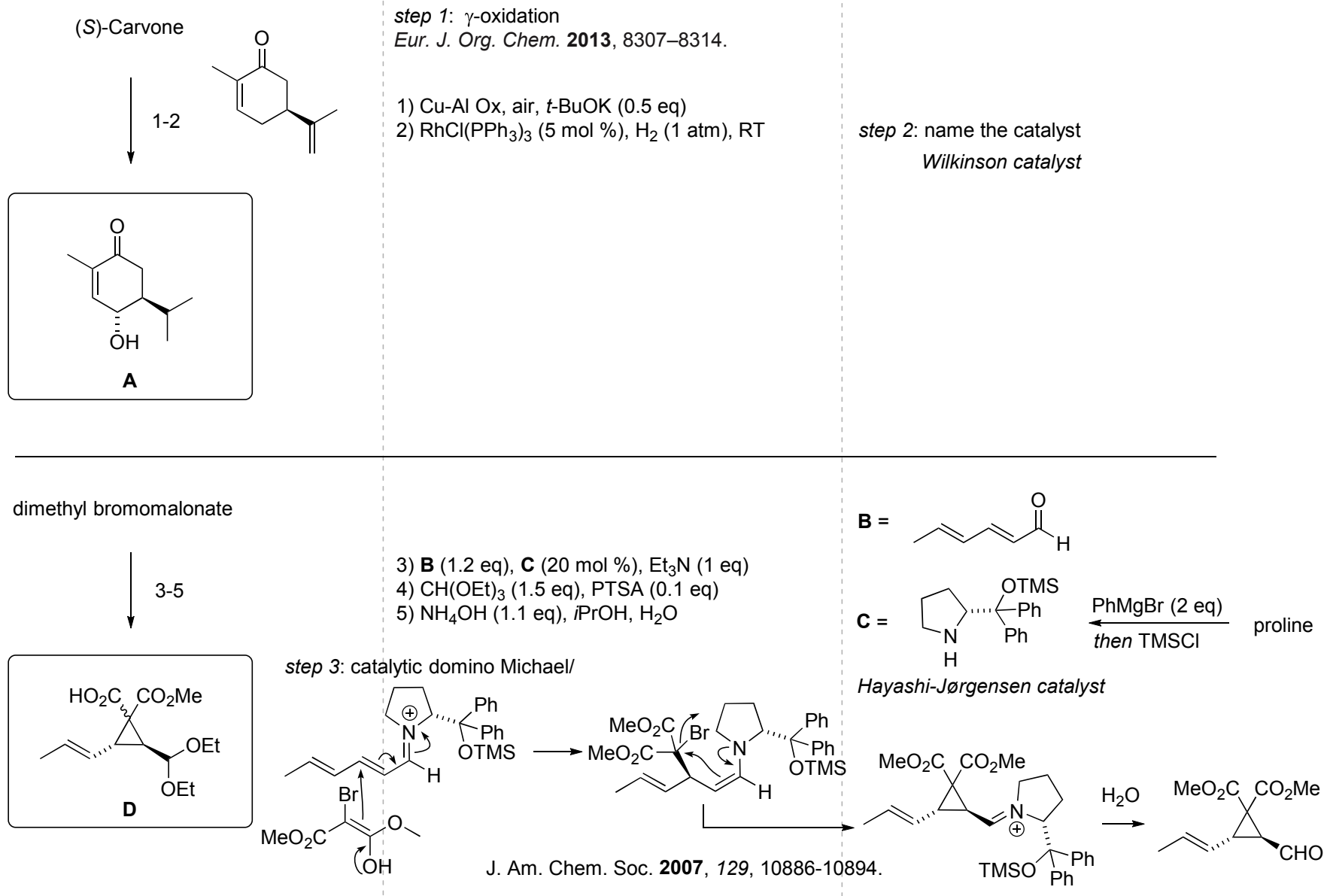
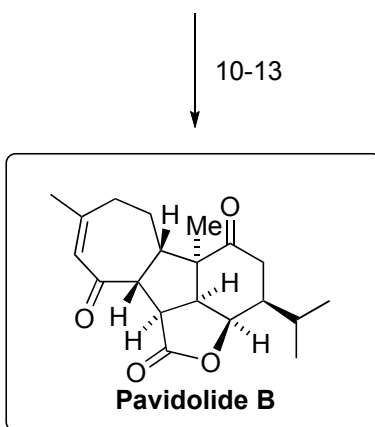
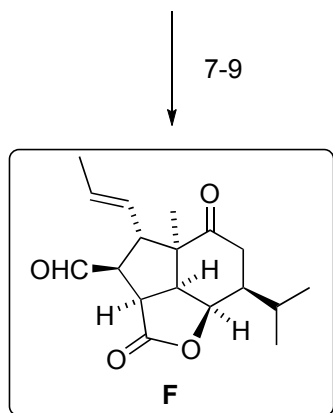
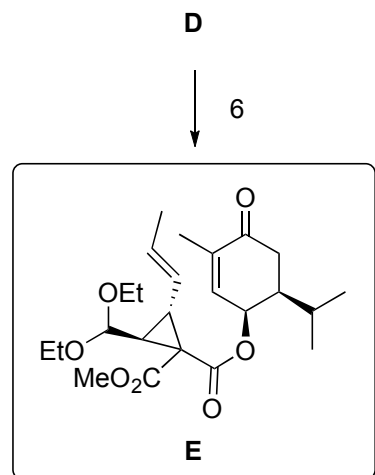


Enantioselective Total Synthesis of (-)-Pavidolide B

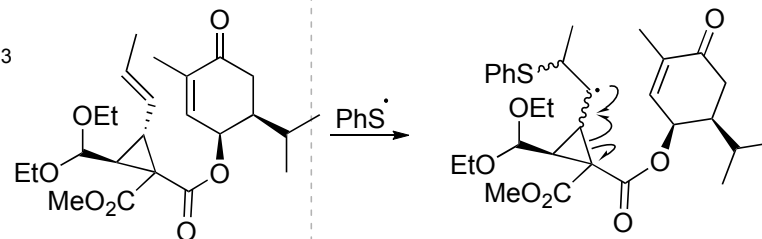
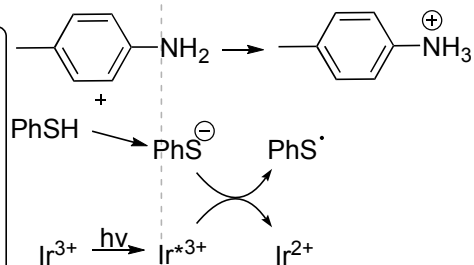
Zhang, P.-P., Yang, Z.-M., L, Y.-H., Gong, J.-X., Yang, Z. *J. Am. Chem. Soc.* **2017**, *139*, 13989-13992.





6) PPh_3 , DEAD, **A** step 6: Mitsunobu reaction

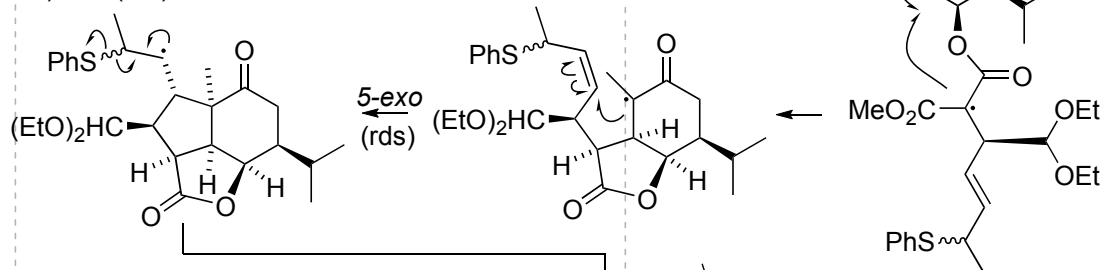
step 7: Strain-release annulations of vinylcyclopropane



7) PhSH , $\text{Ir}(\text{dFCF}_3\text{ppy})_2(\text{dtbbpy})\text{PF}_6$, *p*-toluidine, blue LEDs, MeCN

8) Me_4NOH , *i*PrOH, H_2O , then toluene, 120°C

9) HCl (2M)



10) $\text{Ni}(\text{acac})_2$, Et_2Zn , isoprene

11) Martin's reagent

12) Grubbs II, DCM , reflux

13) $\text{RhCl}_3 \cdot 3\text{H}_2\text{O}$ (20 mol %), EtOH , 100°C

step 10: homoallylation *J. Am. Chem. Soc.* **2006**, *128*, 8559-8568.

