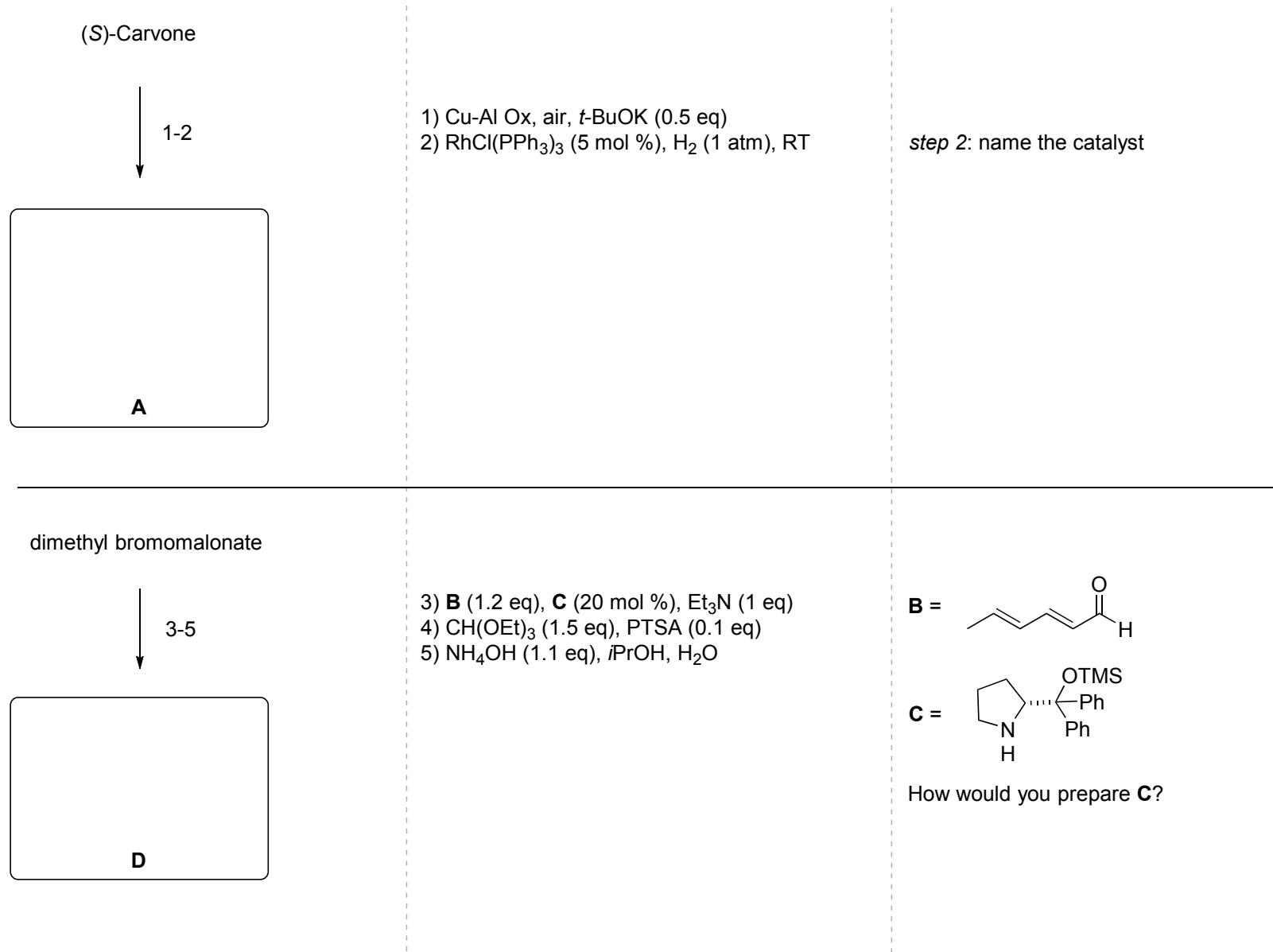
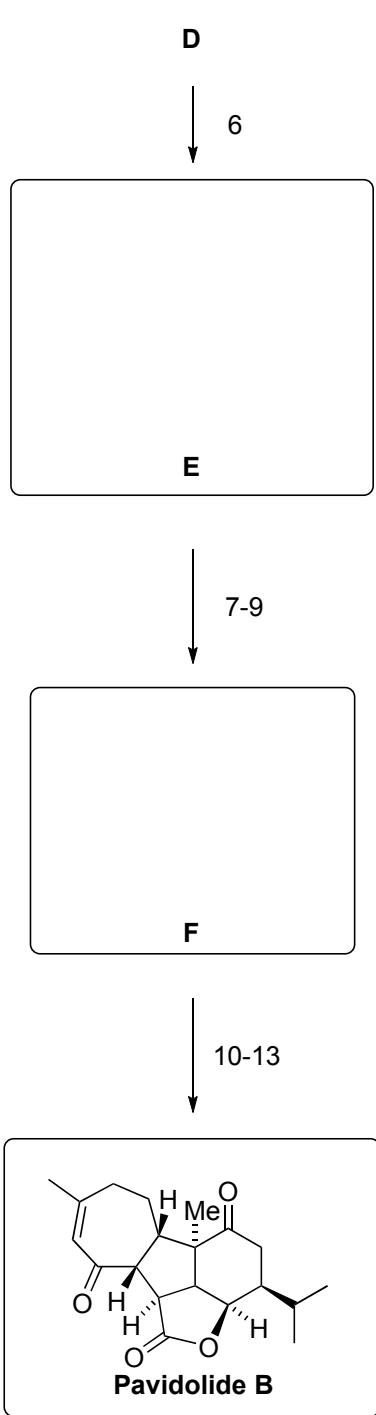


# Enantioselective Total Synthesis of (–)-Pavidolide B

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





6)  $\text{PPh}_3$ , DEAD, **A**

*step 7: please come up with a mechanism*

- 7)  $\text{PhSH}$ ,  $\text{Ir}(\text{dF}(\text{CF}_3)\text{ppy})_2(\text{dtbbpy})\text{PF}_6$ ,  
*p*-toluidine, blue LEDs, MECN
- 8)  $\text{Me}_4\text{NOH}$ , *iPrOH*,  $\text{H}_2\text{O}$ , *then* toluene,  $120\text{ }^\circ\text{C}$
- 9)  $\text{HCl}$  (2M)

*step 10: please come up with a mechanism*

- 10)  $\text{Ni}(\text{acac})_2$ ,  $\text{Et}_2\text{Zn}$ , isoprene
- 11) Martin's reagent
- 12) Grubbs II, DCM, reflux
- 13)  $\text{RhCl}_3 \cdot 3\text{H}_2\text{O}$  (20 mol %), EtOH,  $100\text{ }^\circ\text{C}$

