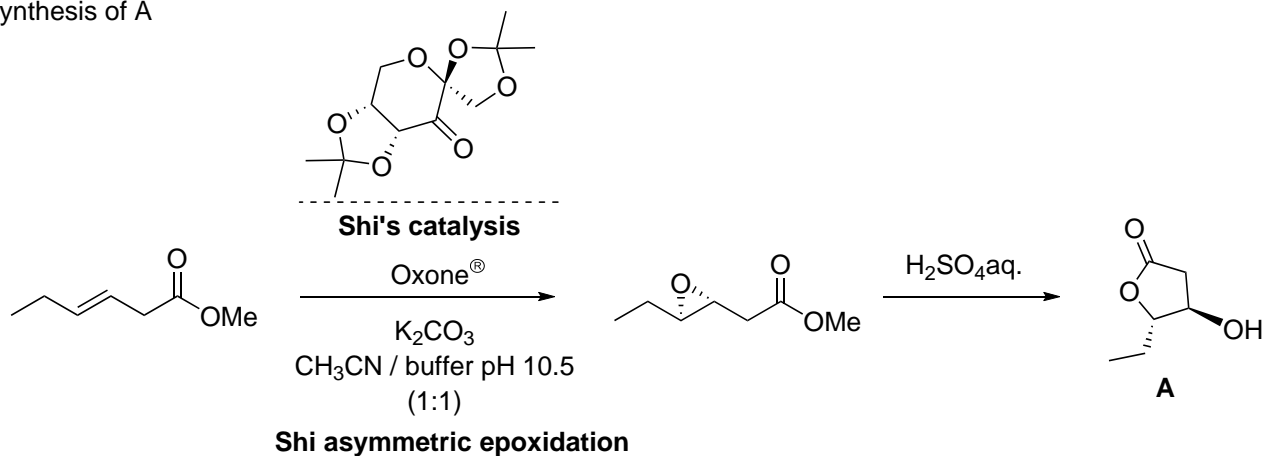
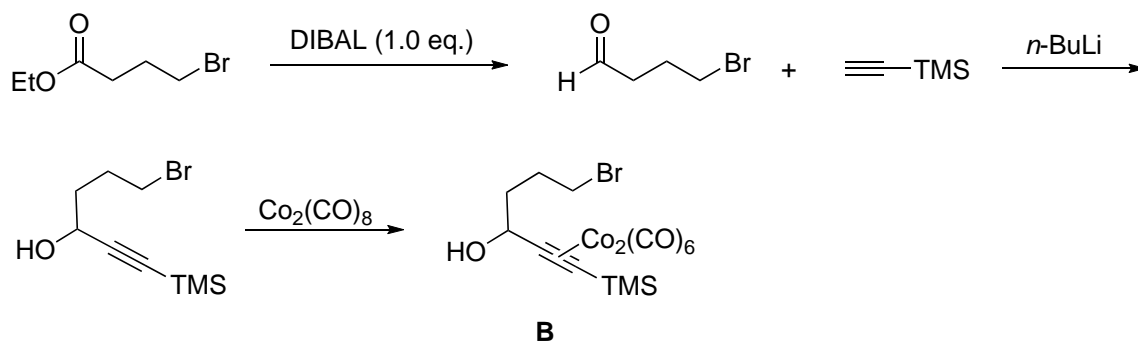


## A1.

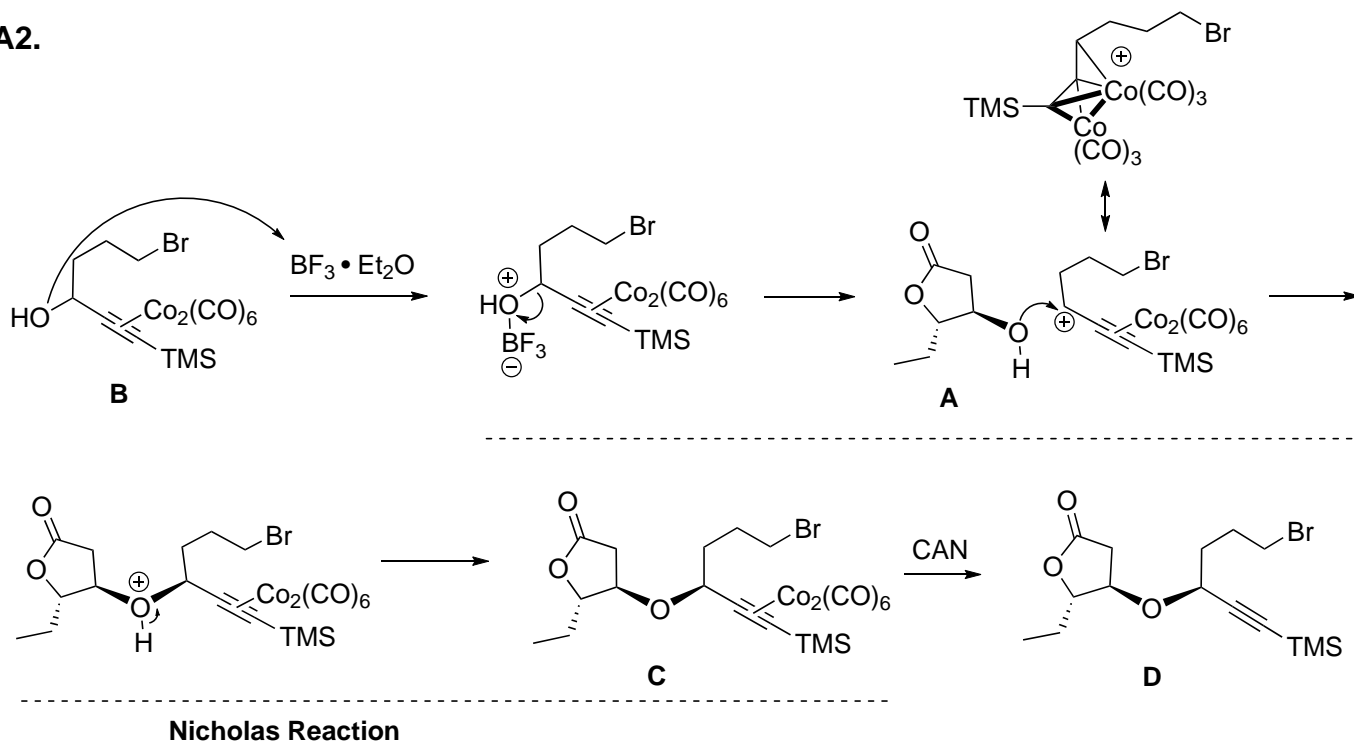
Synthesis of A

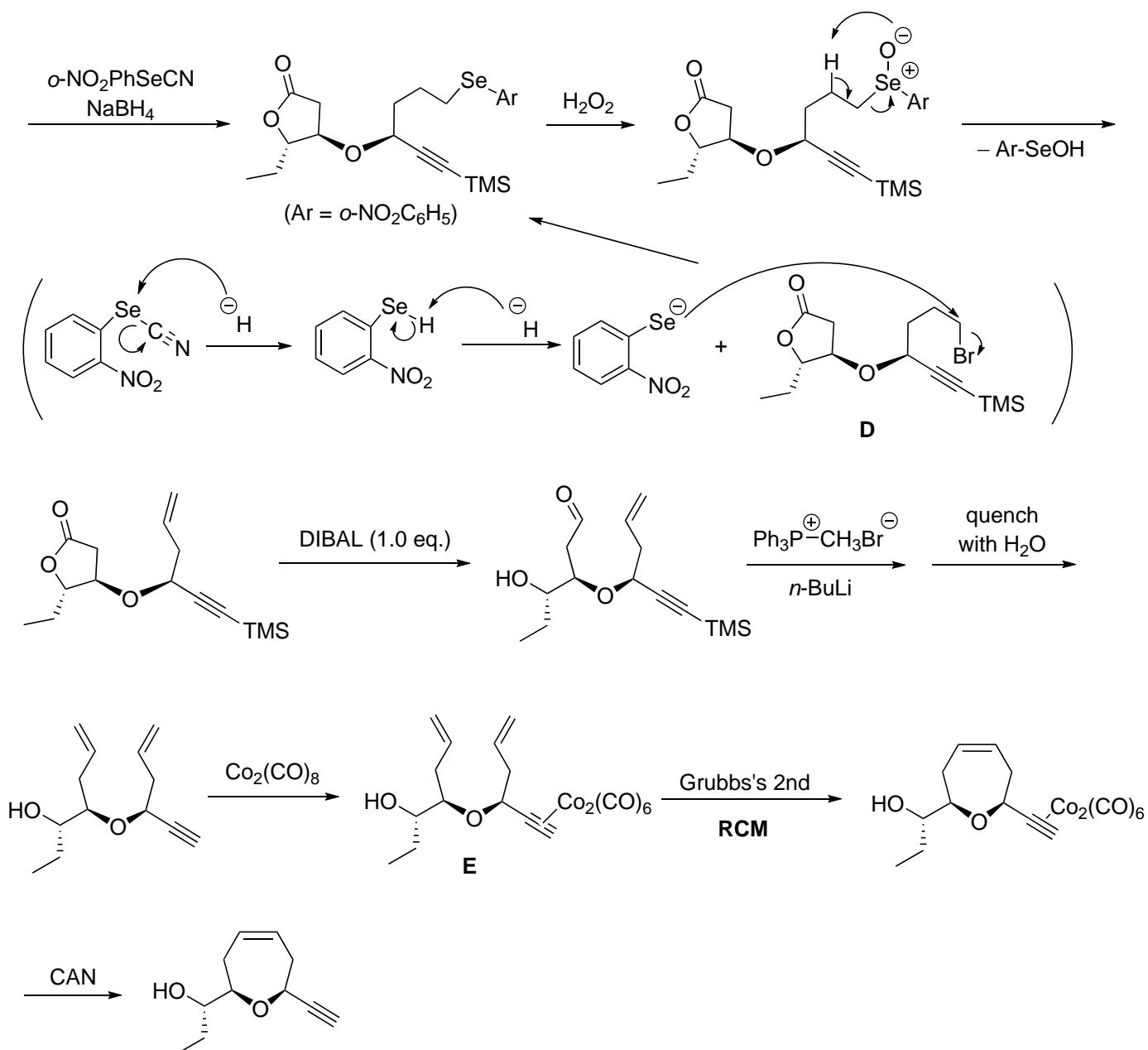


Synthesis of B



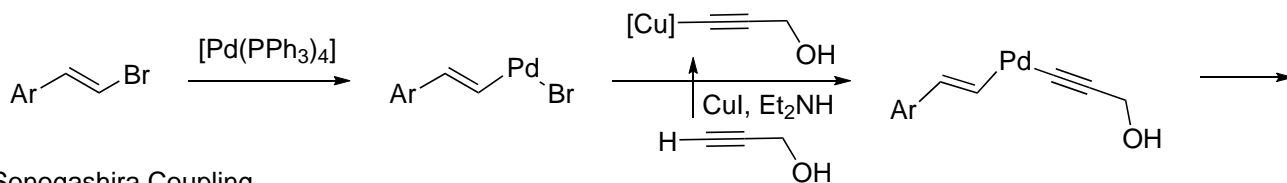
## A2.



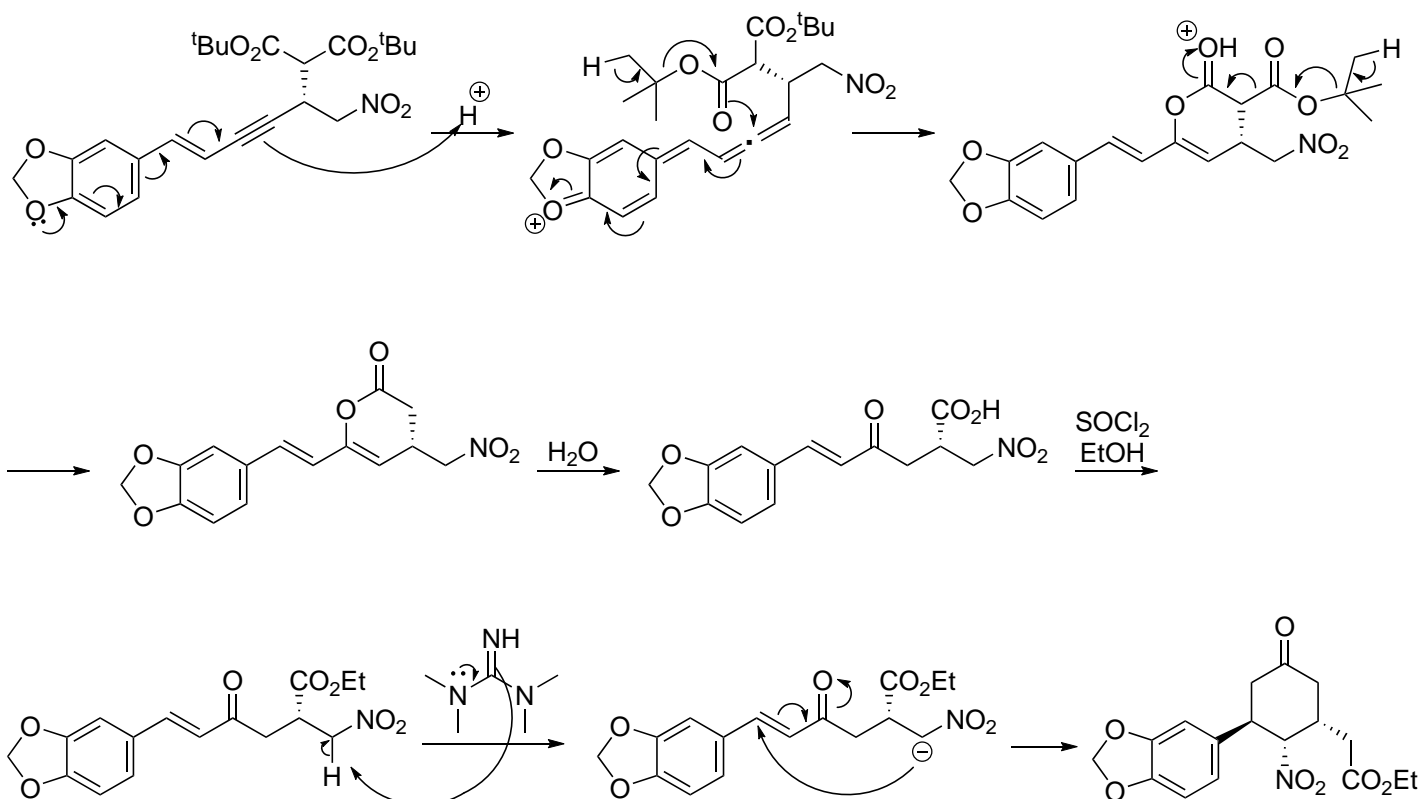
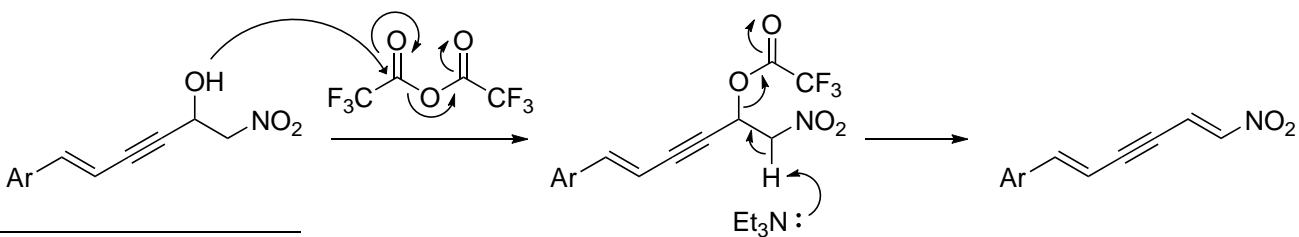
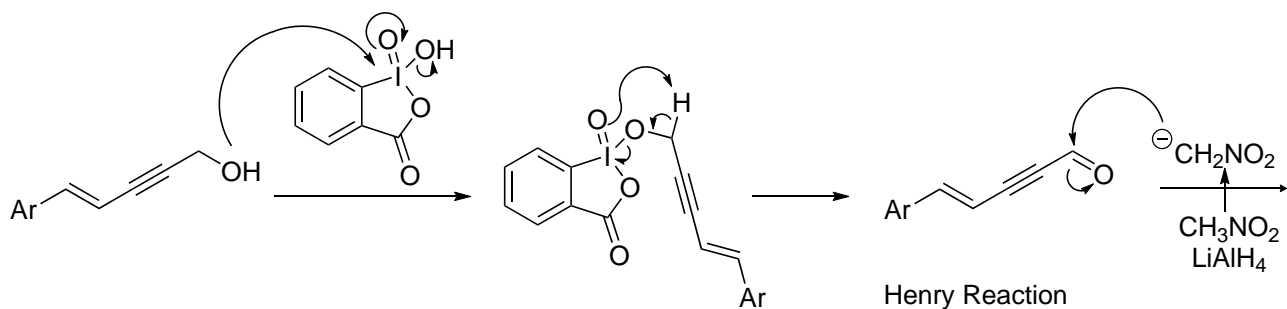


### A3.

In this scheme,  $\text{Co}_2(\text{CO})_8$  stabilizes propargyl cation and protects the alkyne.



Sonogashira Coupling



Intramolecular Michael Addition

