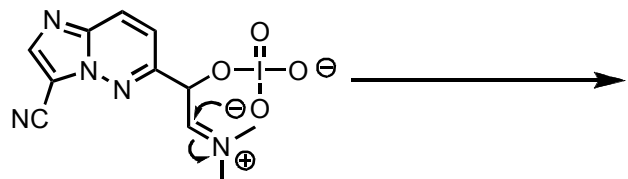
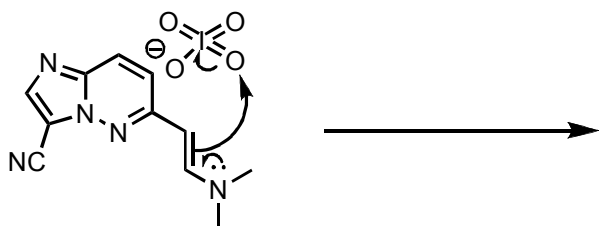
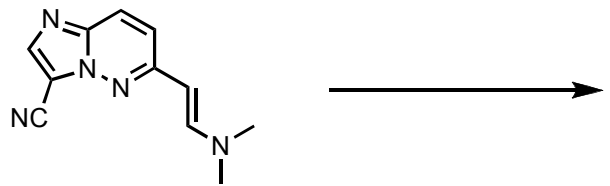
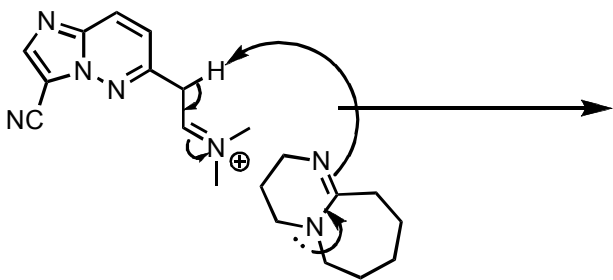
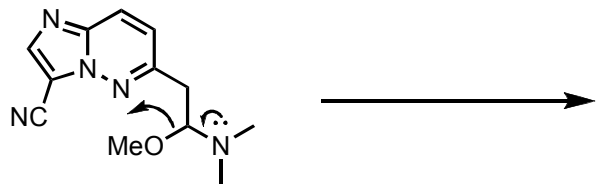
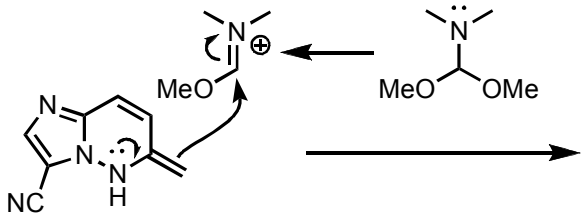
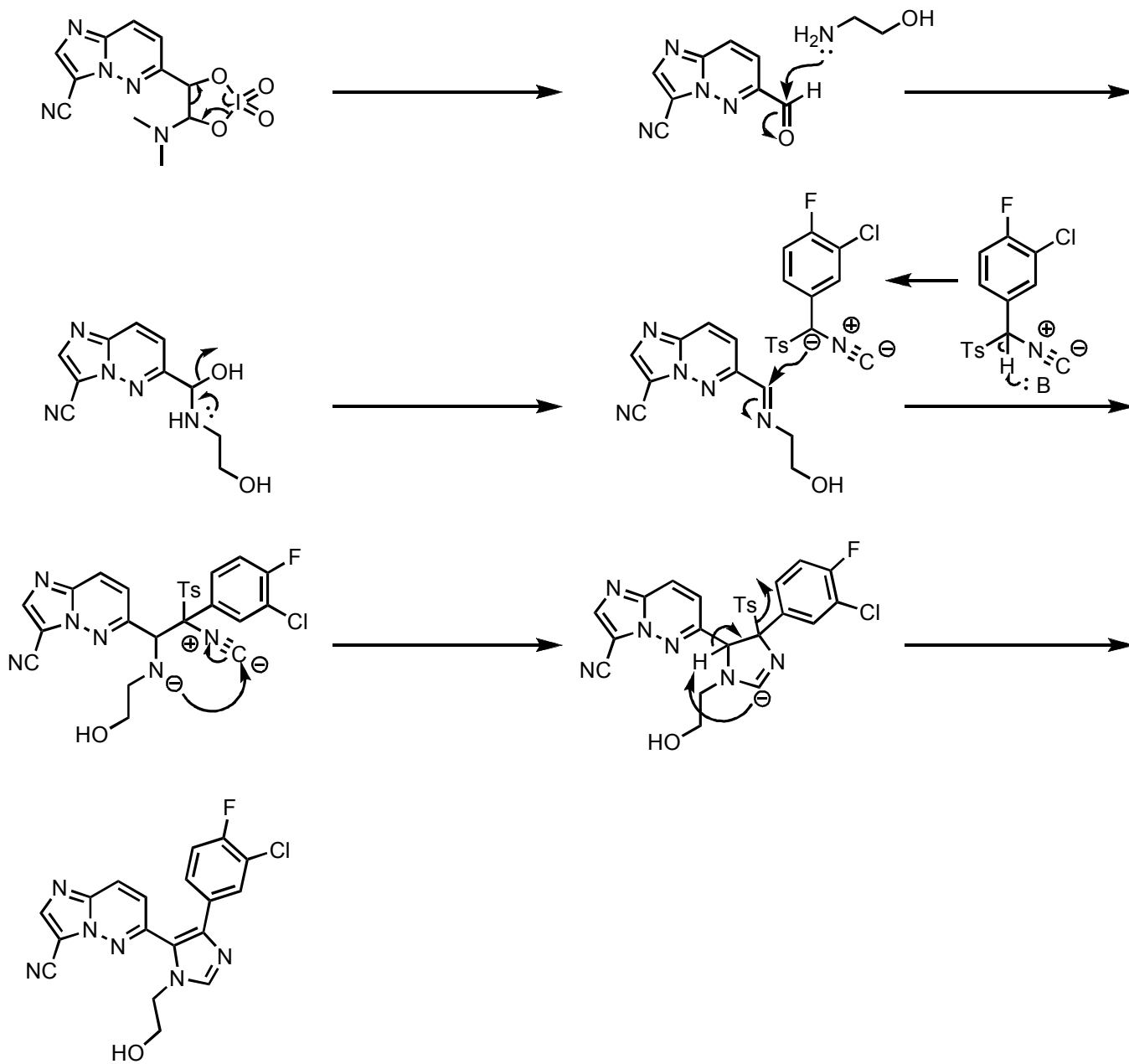
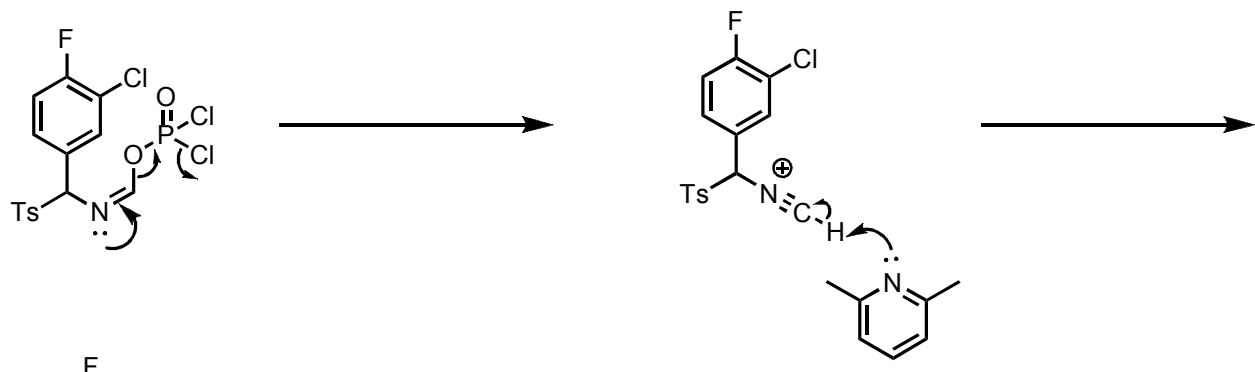
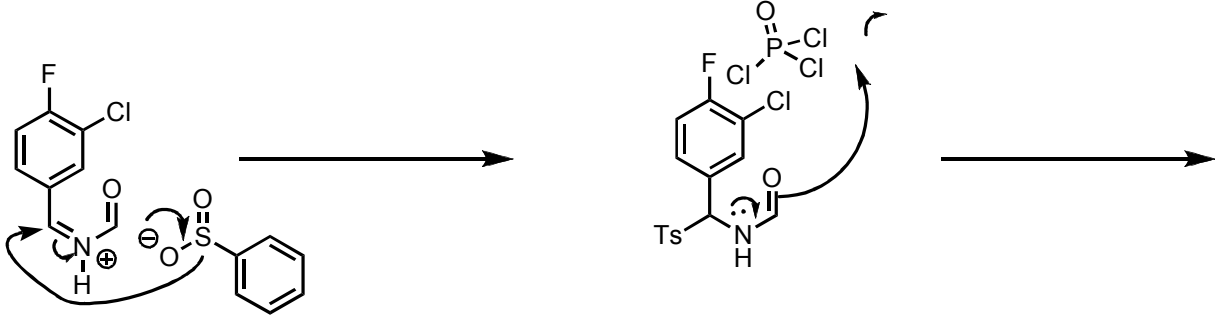
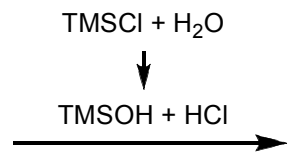
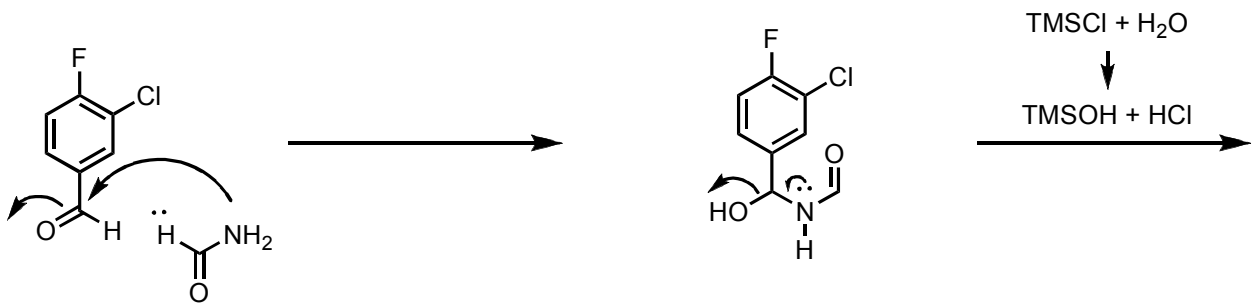
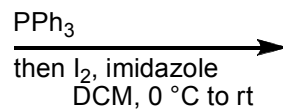
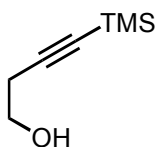
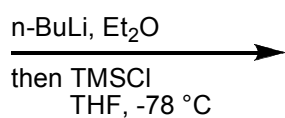
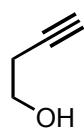
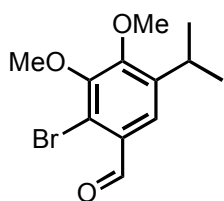
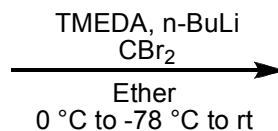
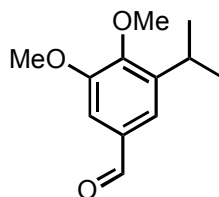
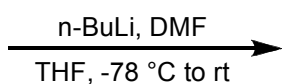
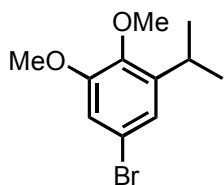
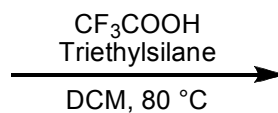
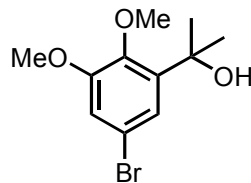
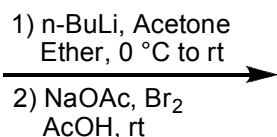
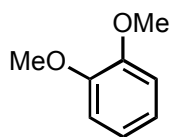


tautomerization to form an enamine

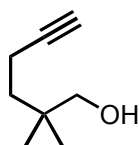
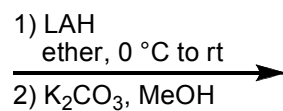
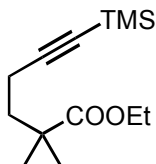
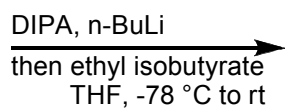
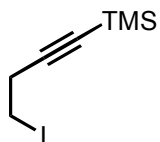


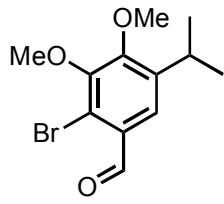




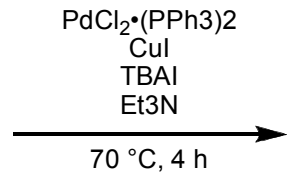
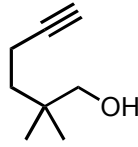


Appel reaction

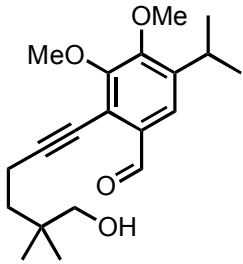




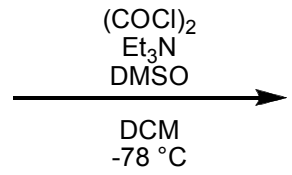
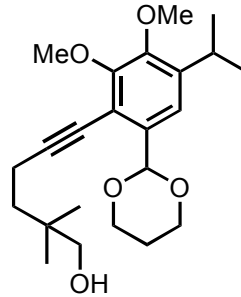
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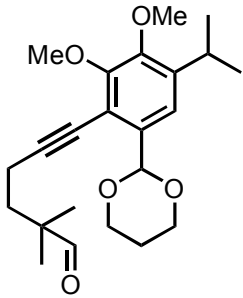
Sonogashira cross coupling



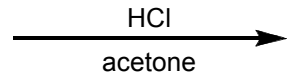
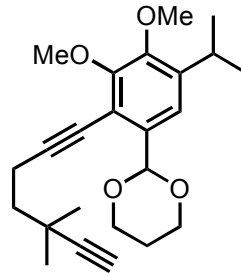
1,3-propanediol
pTSA



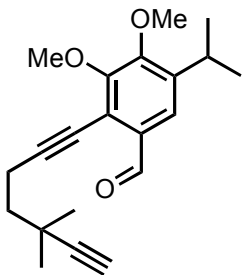
Swern oxidation

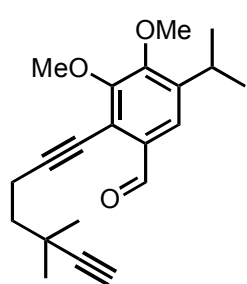


CBr_4
 PPh_3 ;
 $n\text{-BuLi}$, -78 °C



Corey-Fuchs reaction





CuOTf

