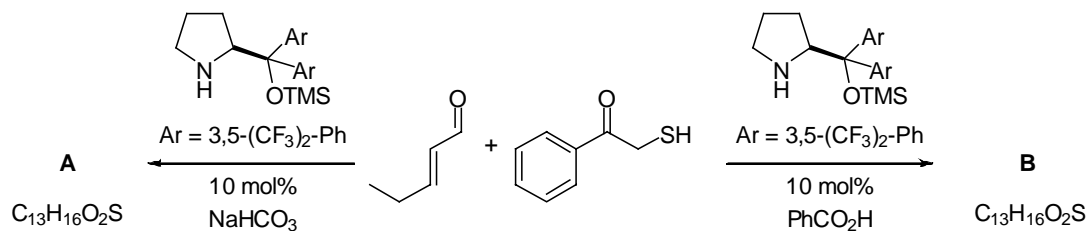
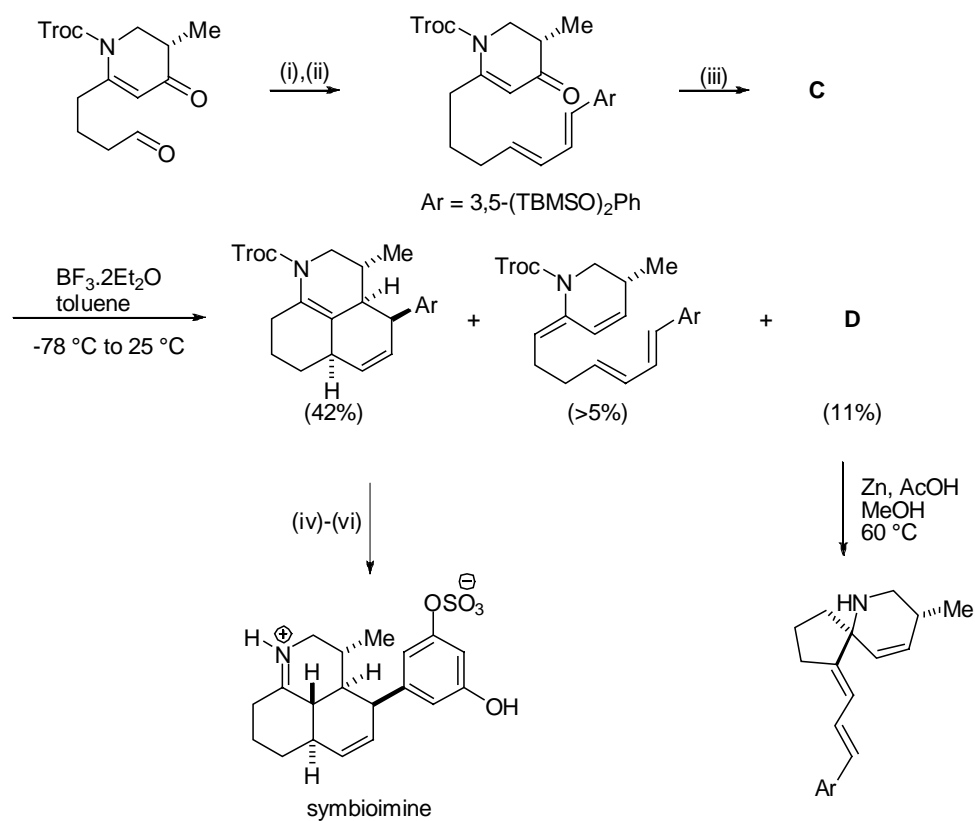


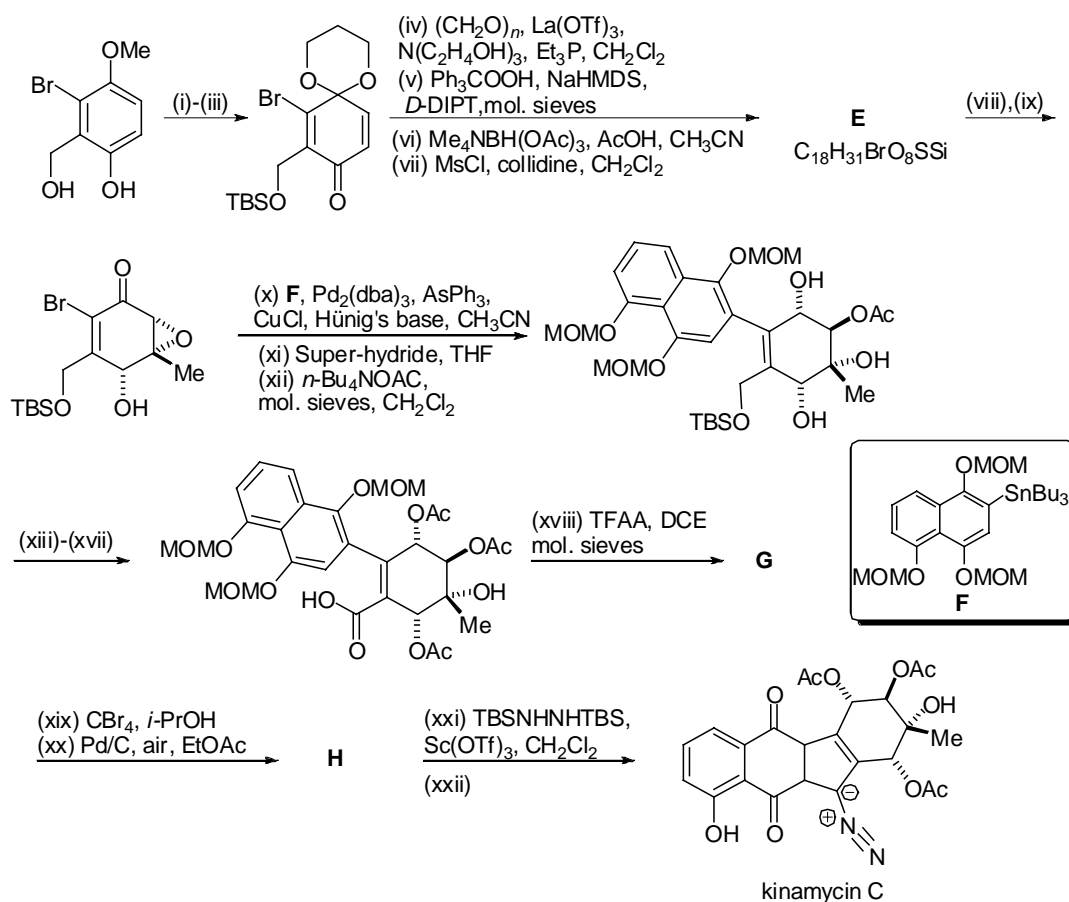
1 Please, provide the structures (**A** and **B**) and mechanisms.



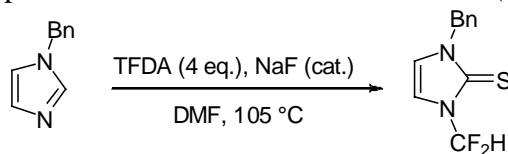
2 Find the missing steps, structures (**C** and **D**) and mechanisms.



3 Give the missing steps, structures (**E**, **G** and **H**) and mechanisms.



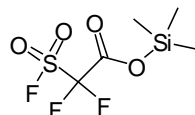
4 Could you think of a plausible mechanism for this reaction (optional).



Glossary:

$D\text{-DIPT}$ :  $D$ - di-*iso*-propyl tartrate

$\text{DCE}$ : dichloroethene



$\text{TFDA}$ : fluorosulfonyldifluoroacetate