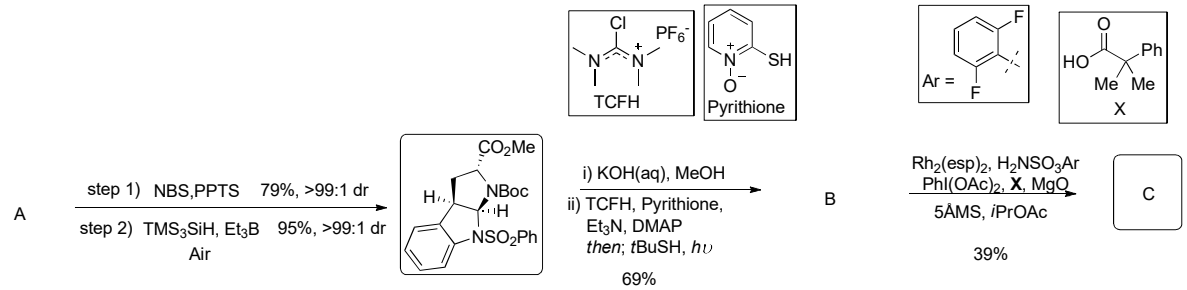
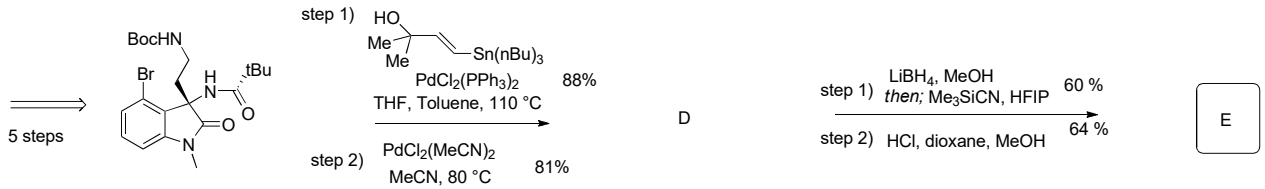
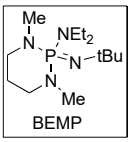
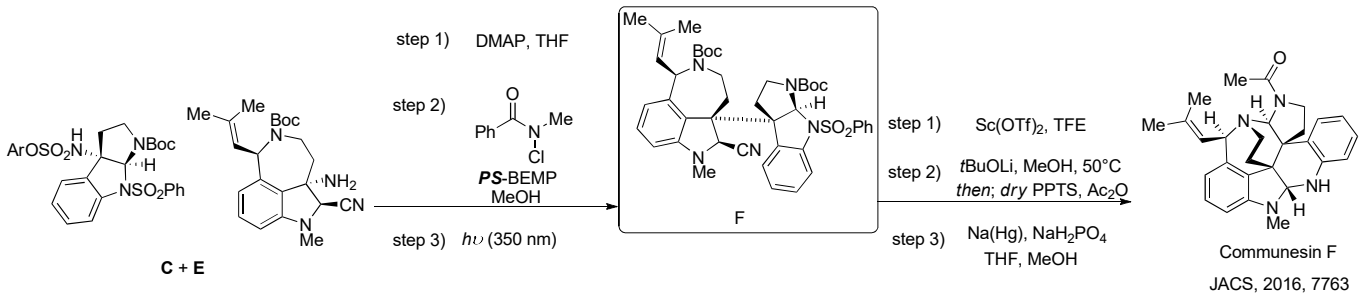

TCFH
Pyrithione
Ar =
X
A
step 1) NBS,PPTS 79%, >99:1 dr
step 2) TMS3SiH, Et3B 95%, >99:1 dr
Air
i) KOH(aq), MeOH
ii) TCFH, Pyrithione,
Et3N, DMAP
then; tBuSH, hυ
69%
B
Rh2(esp)2, H2NSO3Ar
PhI(OAc)2, X, MgO
5ÅMS, iPrOAc
39%
C


5 steps
step 1)
PdCl2(PPh3)2 88%
THF, Toluene, 110 °C
step 2)
PdCl2(MeCN)2
MeCN, 80 °C
81%
D
step 1) LiBH4, MeOH
then; Me3SiCN, HFIP 60 %
step 2) HCl, dioxane, MeOH
64 %
E


BEMP


C + E
step 1) DMAP, THF
step 2)
PS-BEMP
MeOH
step 3) hυ (350 nm)
F
step 1) Sc(OTf)2, TFE
step 2) tBuOLi, MeOH, 50°C
then; dry PPTS, Ac2O
step 3) Na(Hg), NaH2PO4
THF, MeOH
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