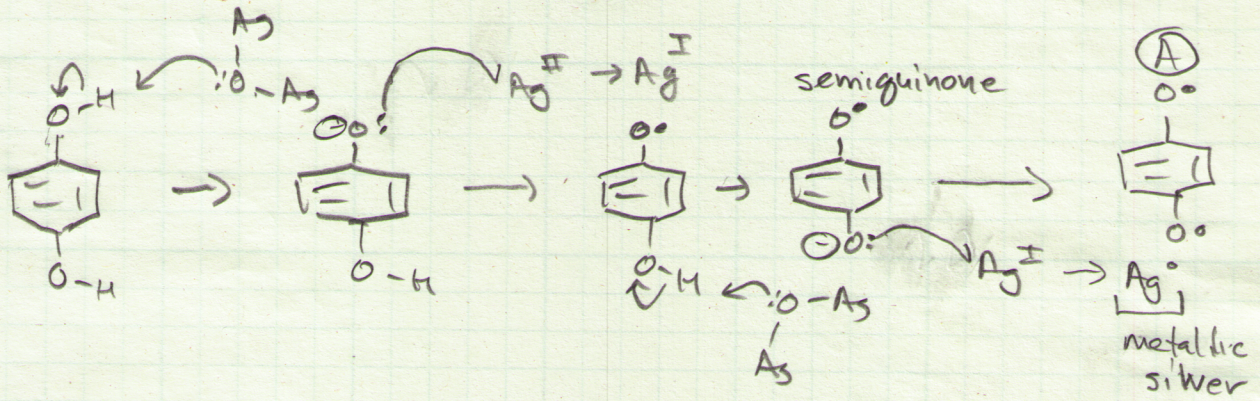
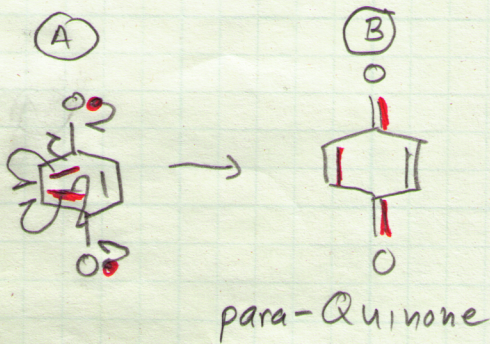


Oxidation of Hydroquinone to Quinone

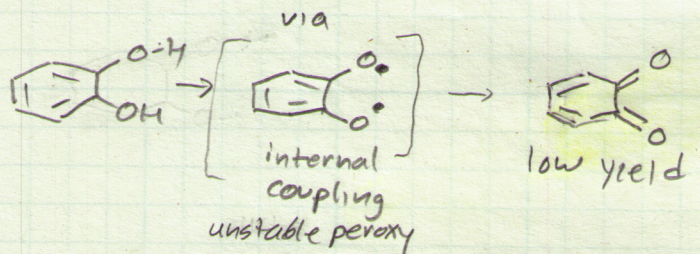
Oxidants [O]: Ag_2O or $Na_2Cr_2O_7$



Half-barbed arrows

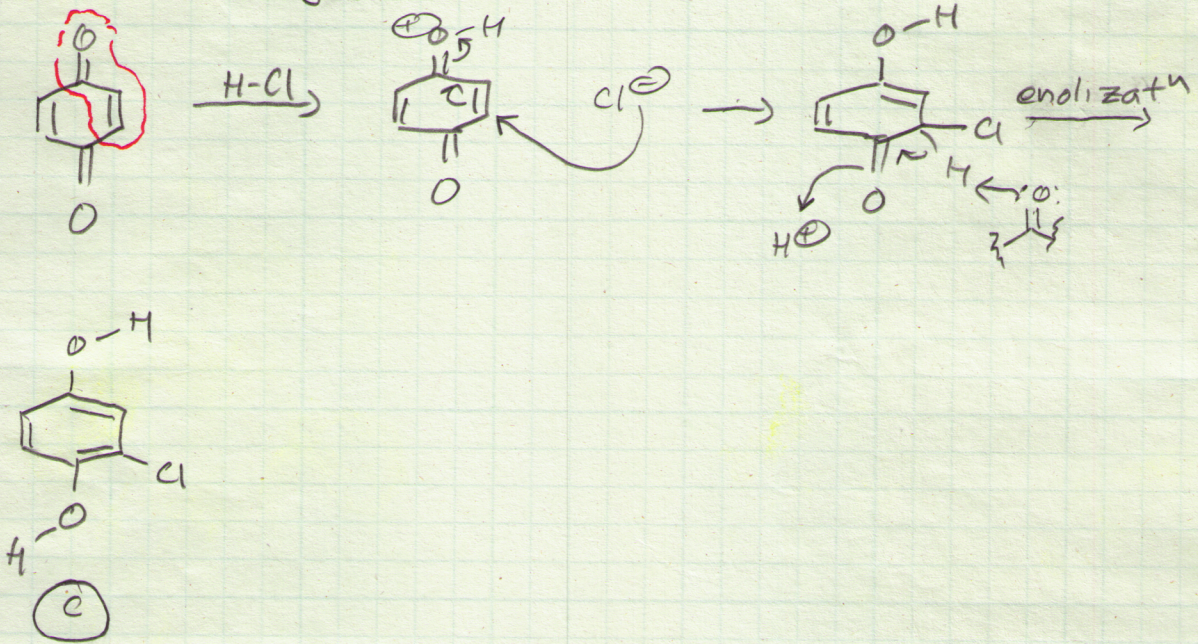


ortho-Quinone production slow (electronic unstable; thus, side rxns)

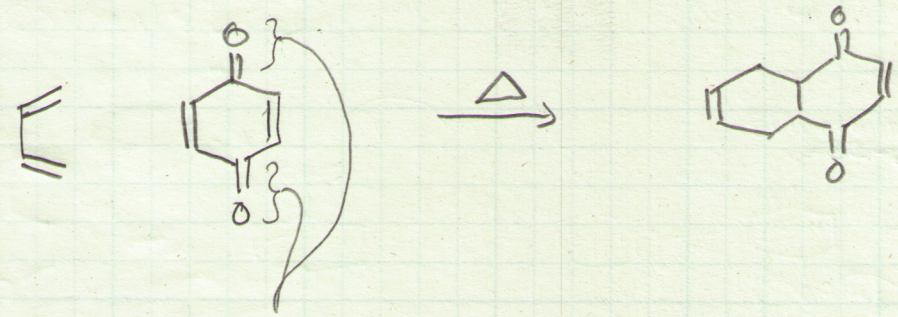


Quinone (B)

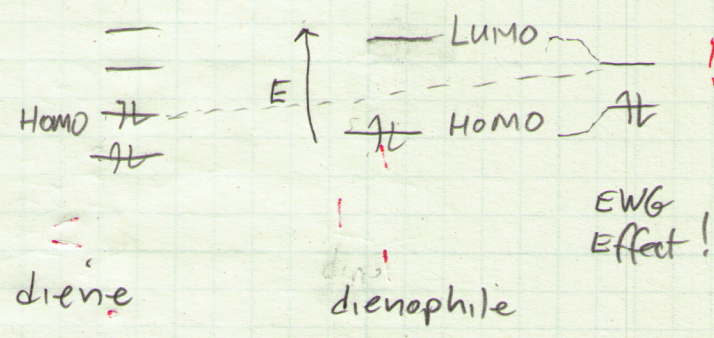
1,4-Michael Conjugate Addⁿ



Diels - Alder Rxn with Quinone (B)



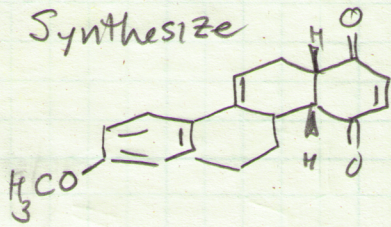
EWG groups
Lower E of LUMO



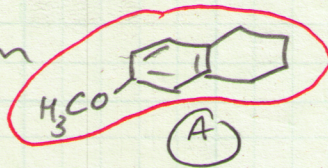
diene dienophile
HOMO/LUMO E are closer

Thermal transition
is more allowable

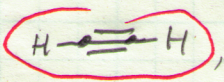
Synthesize



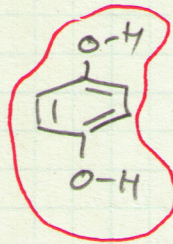
from



USING



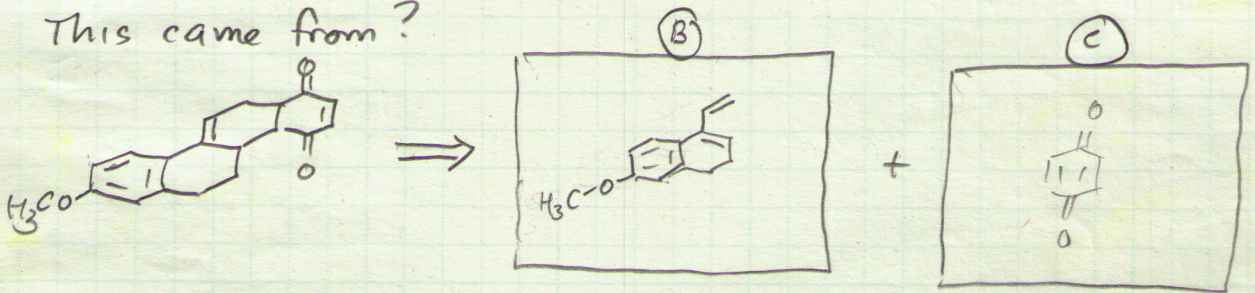
(A) see above,



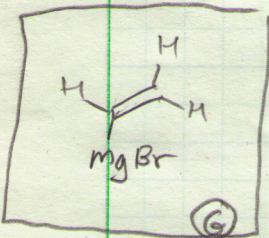
and appropriate reactants needed for the conversion.

Work backwards first

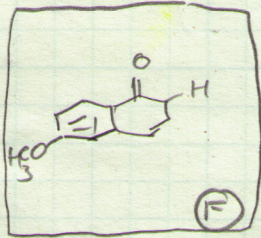
This came from?



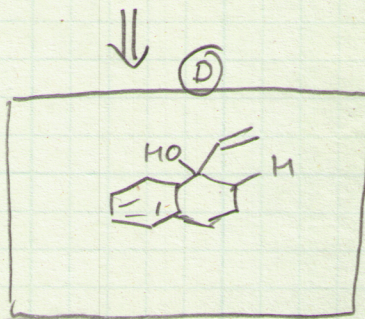
(B) came from?



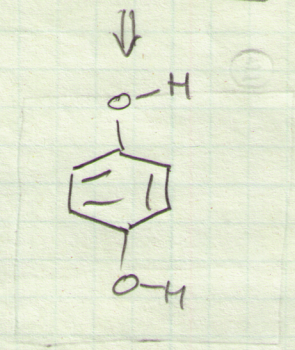
small molecule



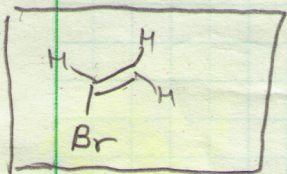
larger



(B) came from?



(C) came from?

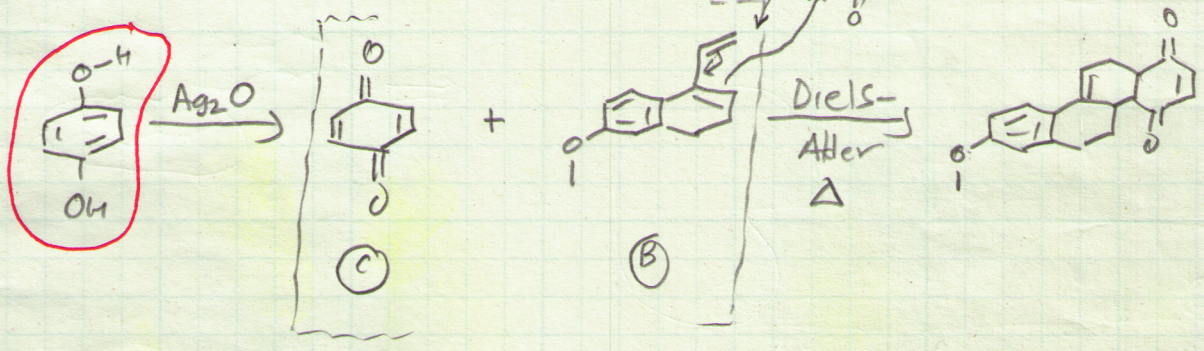
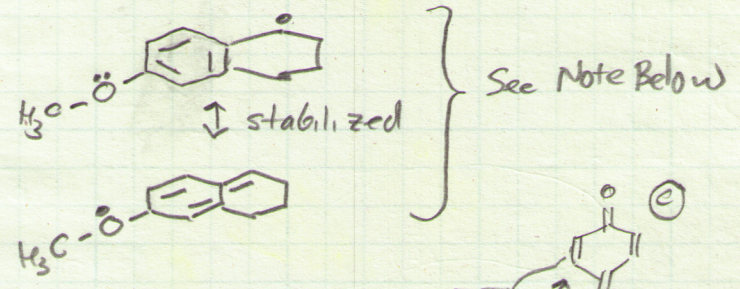
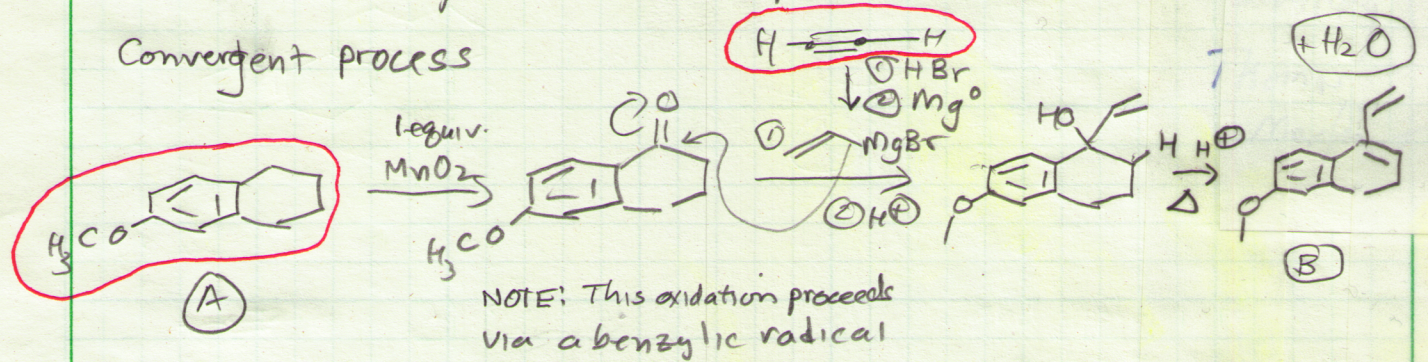


alkyl bromide

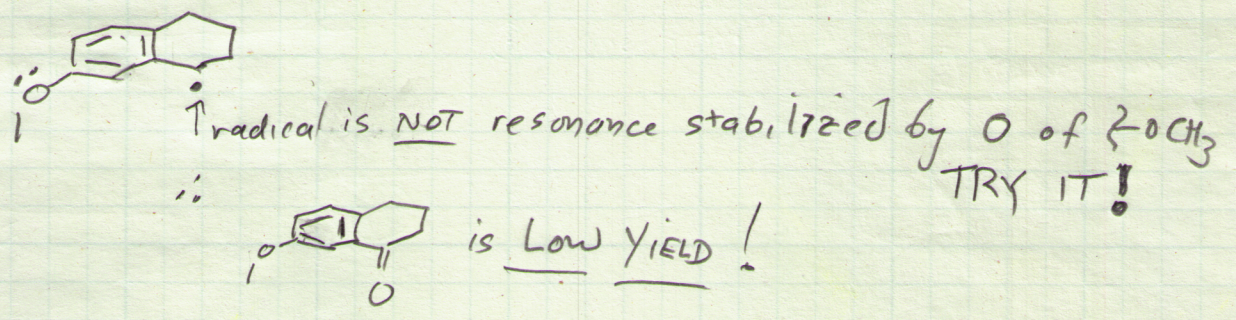


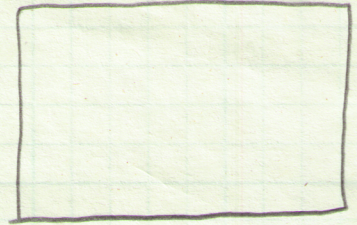
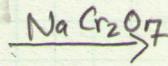
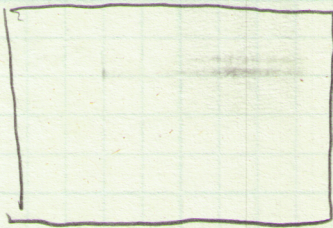
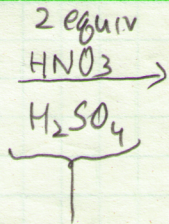
Show forward synthesis on this page

Convergent process

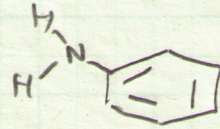
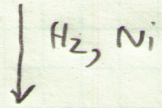
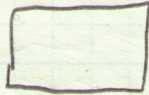


What about the other benzylic C

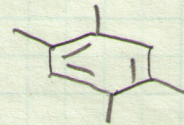
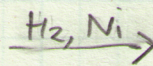
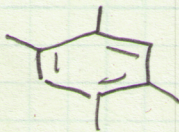
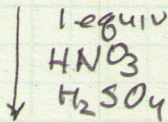
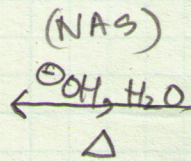
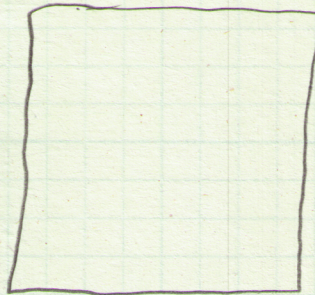
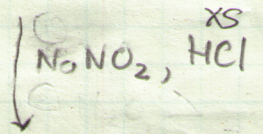




this is a source of



complete the structure



complete the structure

final product