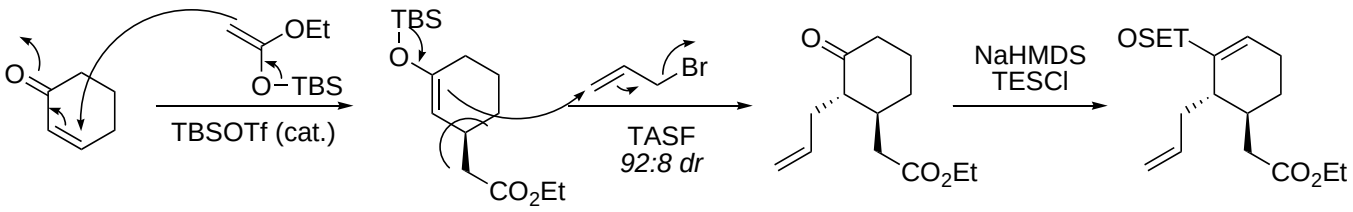
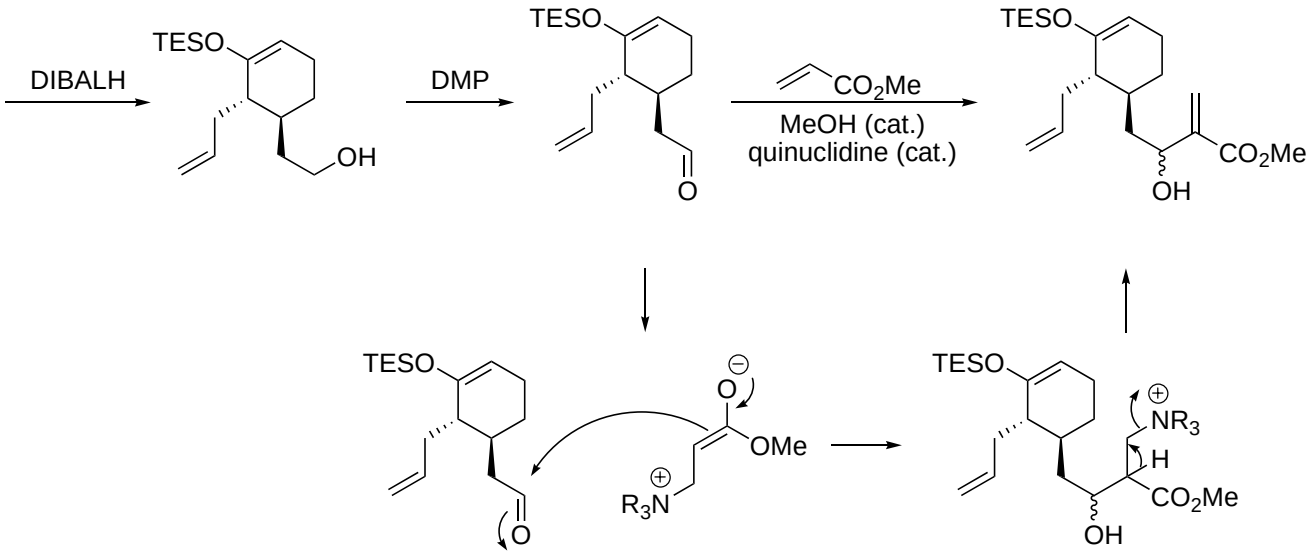
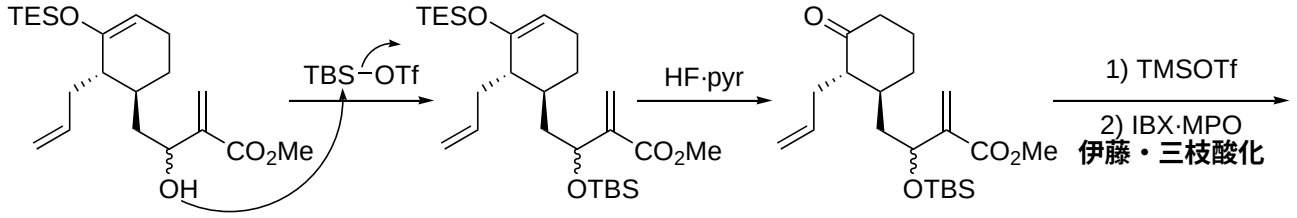
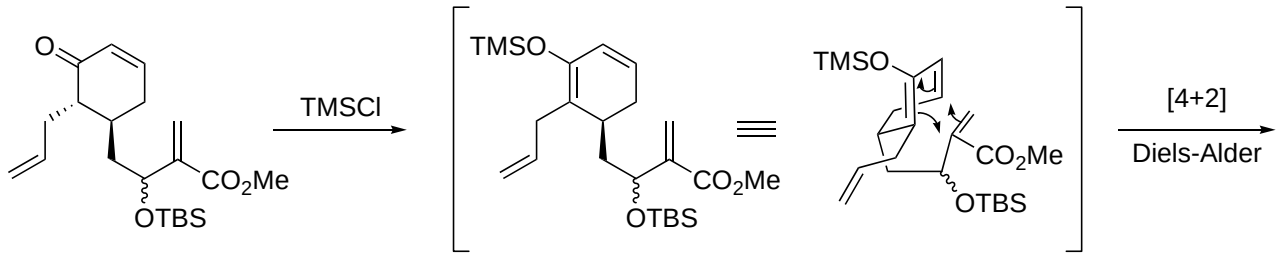
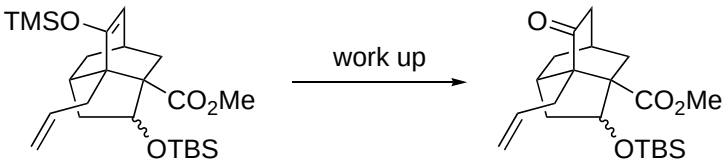
2014/02/15

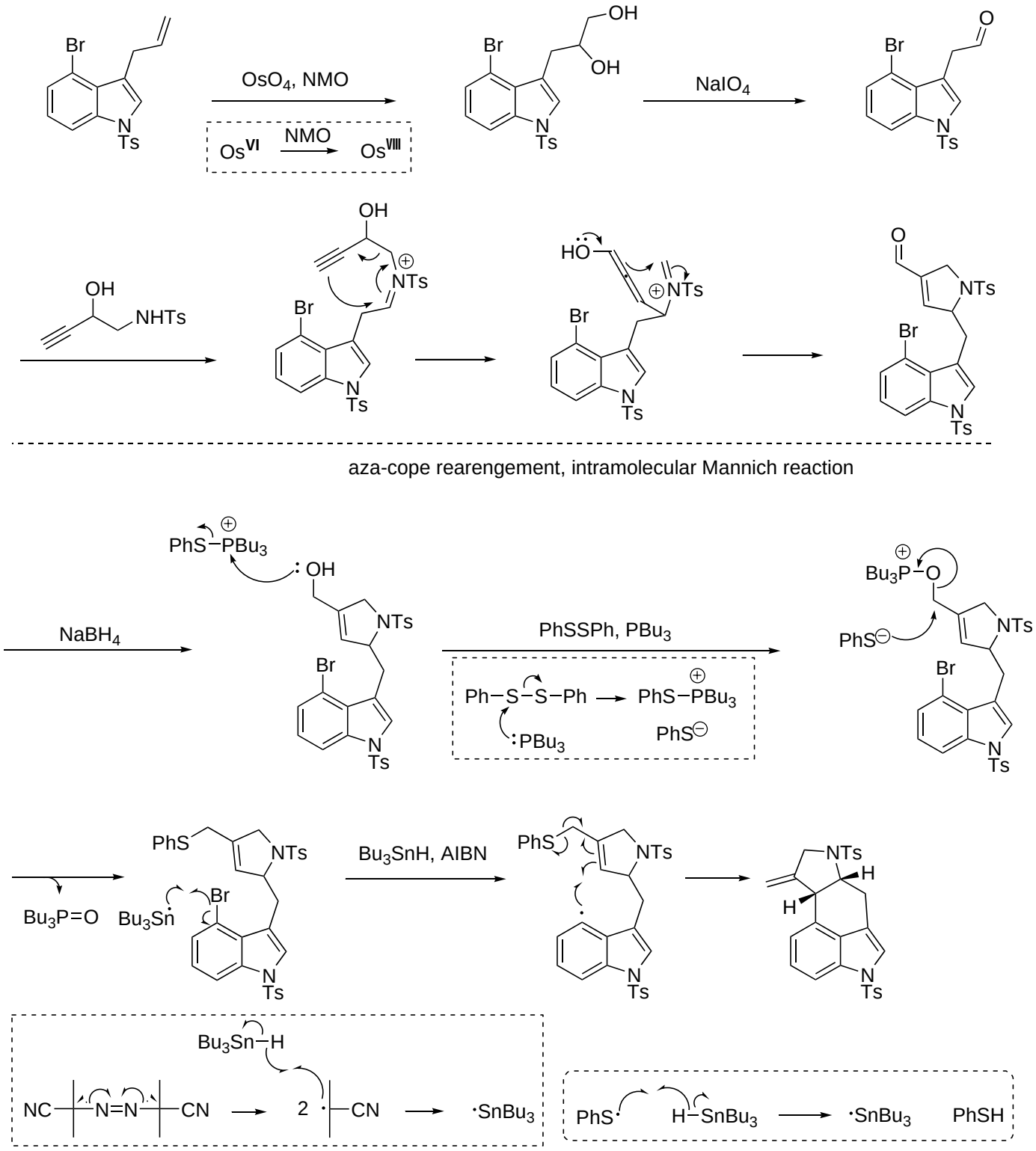

OEt
O–TBS
TBSOTf (cat.)
TBS
O
Br
TASF
92:8 dr
CO2Et
NaHMDS
TESCl
OSET


DIBALH
TESO
OH
DMP
CO2Me
MeOH (cat.)
quinuclidine (cat.)
OMe
R3N
NR3
H


TESO
TBS–OTf
CO2Me
OH
OTBS
HF·pyr
1) TMSOTf
2) IBX·MPO
伊藤・三枝酸化


TMSCl
TMSO
CO2Me
OTBS
[4+2]
Diels-Alder


TMSO
CO2Me
OTBS
work up


OsO4, NMO
Os^VI NMO Os^VIII
NaIO4
aza-cope rearengement, intramolecular Mannich reaction
NaBH4
PhSSPh, PBu3
Bu3P=O
Bu3SnH, AIBN
Bu3Sn–H
2
·SnBu3
PhSH