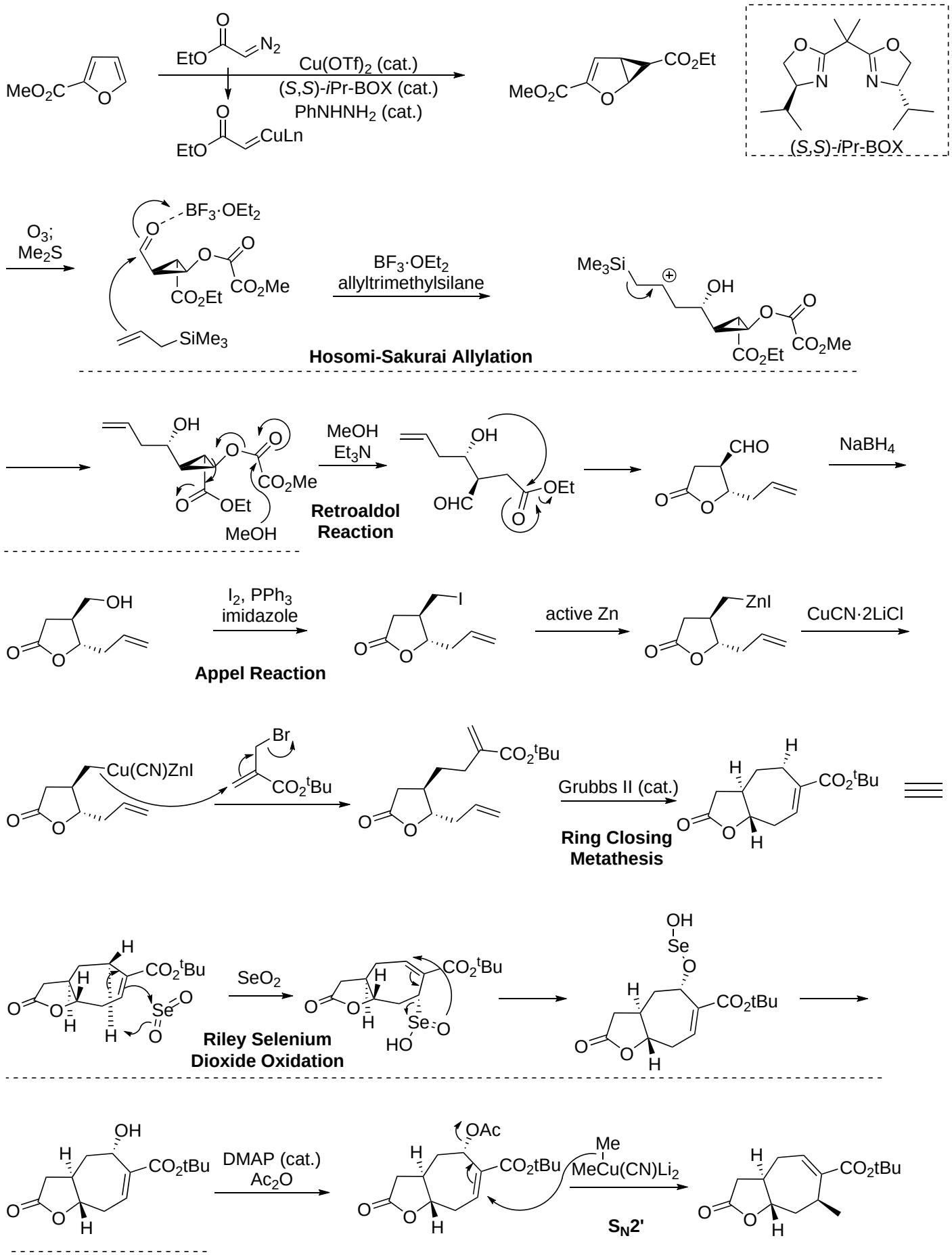
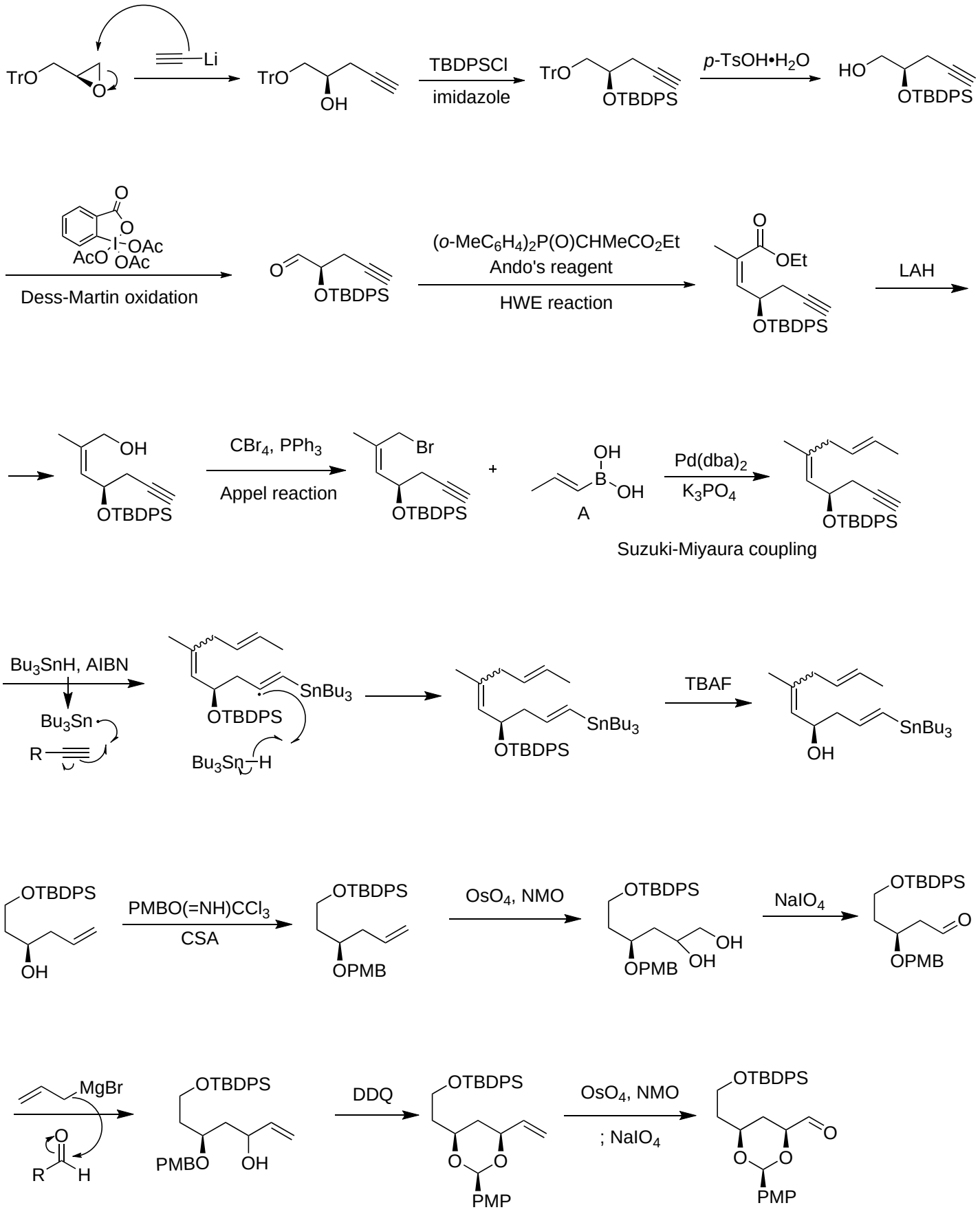
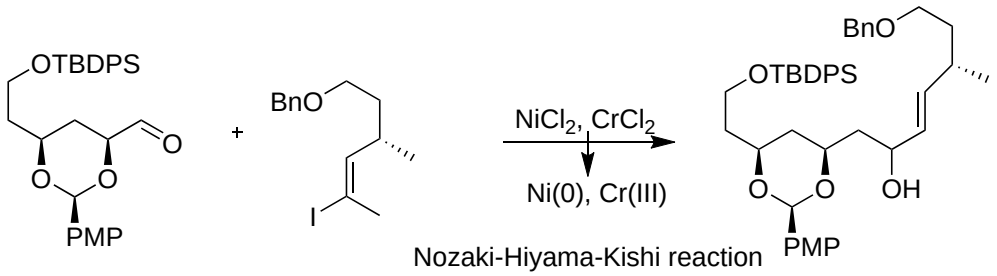
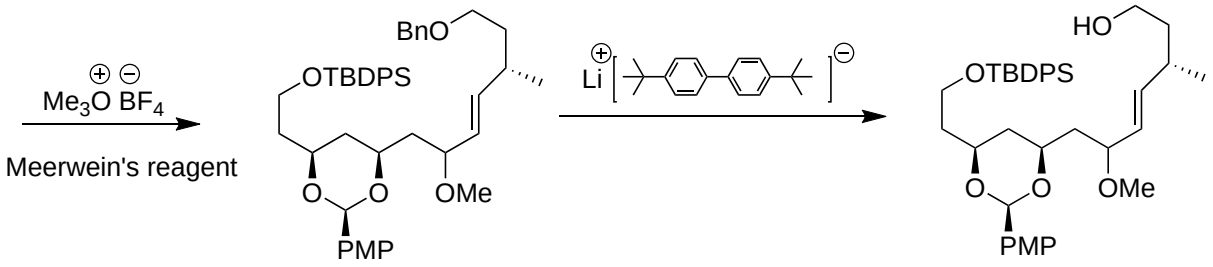
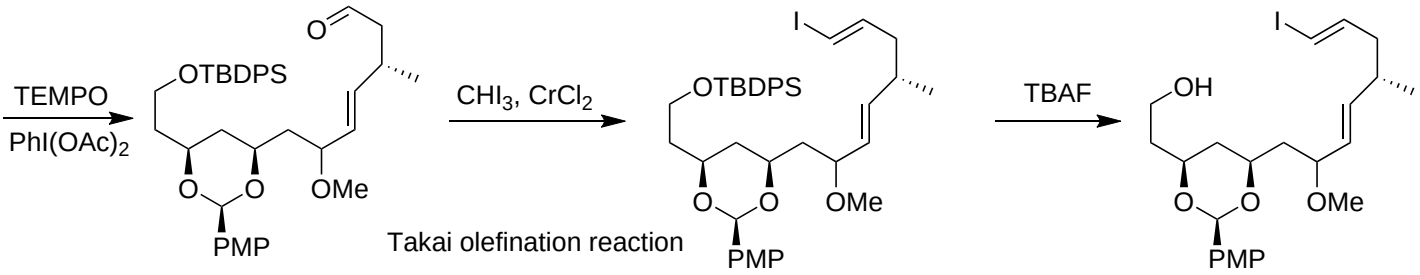
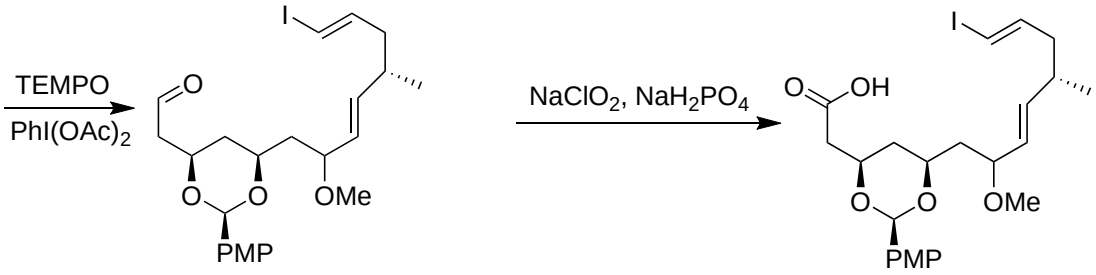

Cu(OTf)2 (cat.)
(S,S)-iPr-BOX (cat.)
PhNHNH2 (cat.)
(S,S)-iPr-BOX
O3;
Me2S
BF3·OEt2
allyltrimethylsilane
Hosomi-Sakurai Allylation
MeOH
Et3N
Retroaldol Reaction
NaBH4
I2, PPh3
imidazole
Appel Reaction
active Zn
CuCN·2LiCl
Grubbs II (cat.)
Ring Closing Metathesis
SeO2
Riley Selenium Dioxide Oxidation
DMAP (cat.)
Ac2O
MeCu(CN)Li2
SN2'


TrO
O
Li
TrO
OH
TBDPSCl
imidazole
TrO
OTBDPS
p-TsOH•H2O
HO
OTBDPS
O
O
I
OAc
AcO
OAc
Dess-Martin oxidation
O
OTBDPS
(o-MeC6H4)2P(O)CHMeCO2Et
Ando's reagent
HWE reaction
O
OEt
OTBDPS
LAH
OH
OTBDPS
CBr4, PPh3
Appel reaction
Br
OTBDPS
+
OH
B
OH
A
Pd(dba)2
K3PO4
OTBDPS
Suzuki-Miyaura coupling
Bu3SnH, AIBN
Bu3Sn
R
SnBu3
OTBDPS
Bu3Sn
H
SnBu3
OTBDPS
TBAF
SnBu3
OH
OTBDPS
OH
PMBO(=NH)CCl3
CSA
OTBDPS
OPMB
OsO4, NMO
OTBDPS
OH
OH
OPMB
NaIO4
OTBDPS
O
OPMB
MgBr
O
R
H
OTBDPS
PMBO
OH
DDQ
OTBDPS
O
O
PMP
OsO4, NMO
; NaIO4
OTBDPS
O
O
O
PMP


OTBDPS
O
O
O
PMP
+
BnO
I
NiCl2, CrCl2
Ni(0), Cr(III)
Nozaki-Hiyama-Kishi reaction
BnO
OTBDPS
OH
O
O
PMP


Me3O BF4
Meerwein's reagent
BnO
OTBDPS
OMe
O
O
PMP
Li
HO
OTBDPS
OMe
O
O
PMP


TEMPO
PhI(OAc)2
O
OTBDPS
OMe
O
O
PMP
CHI3, CrCl2
Takai olefination reaction
I
OTBDPS
OMe
O
O
PMP
TBAF
I
OH
OMe
O
O
PMP


TEMPO
PhI(OAc)2
I
O
OMe
O
O
PMP
NaClO2, NaH2PO4
I
O
OH
OMe
O
O
PMP