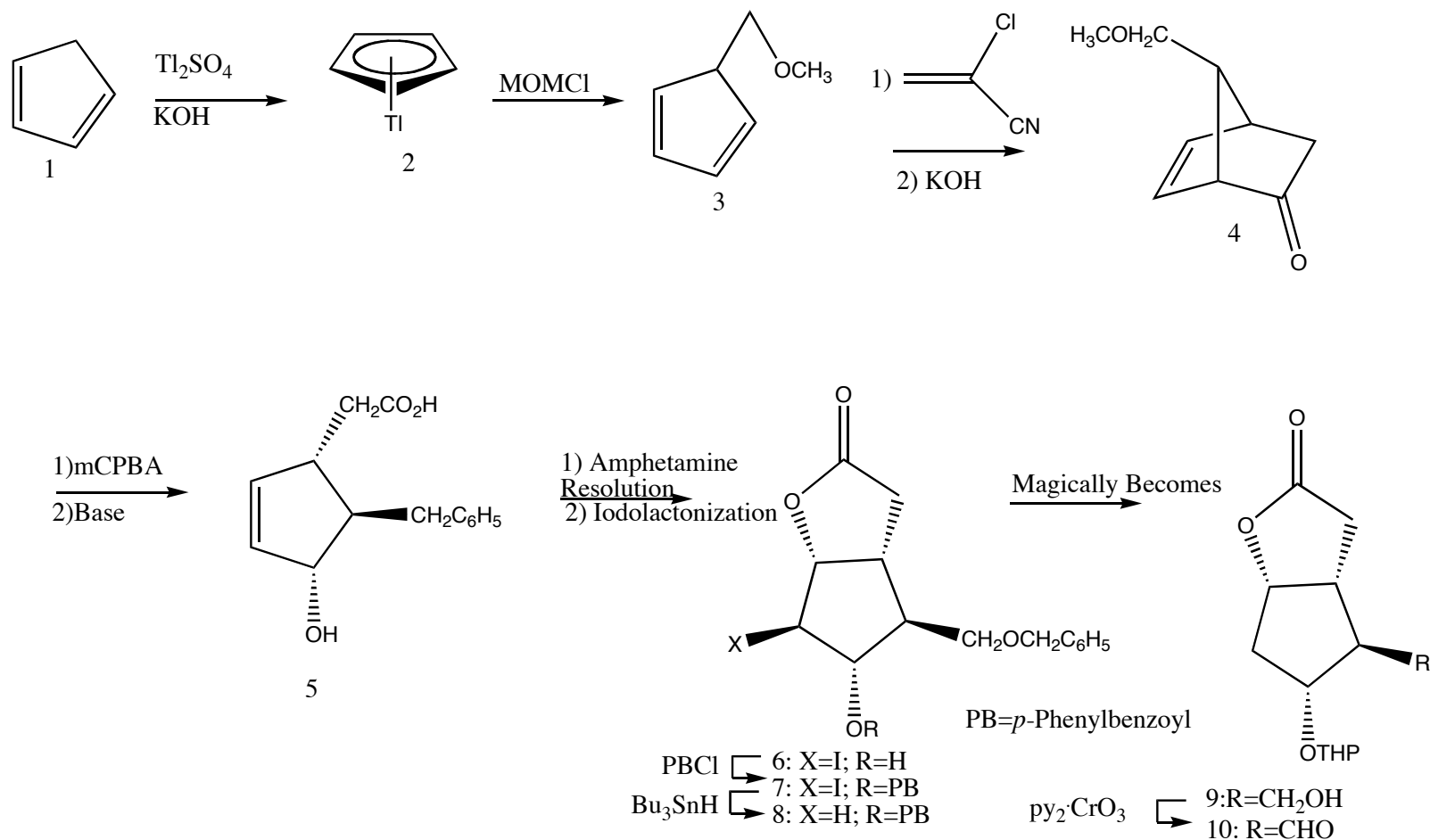


JACS I Love '71

Dan O'Malley

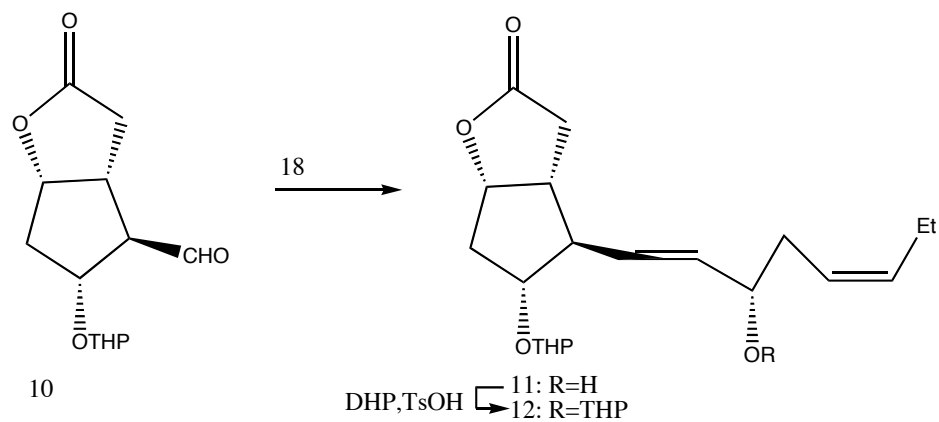
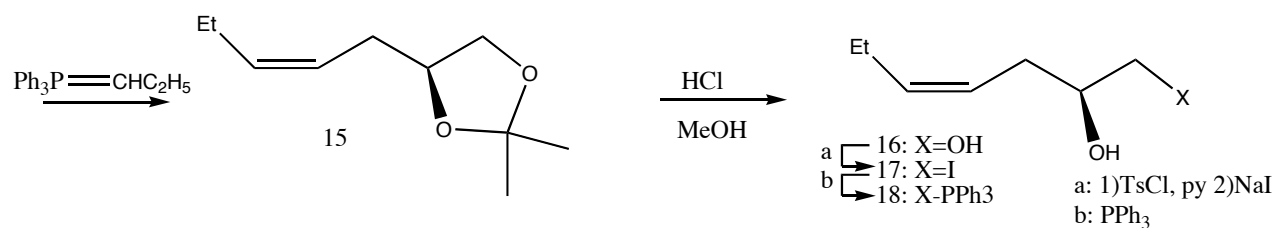
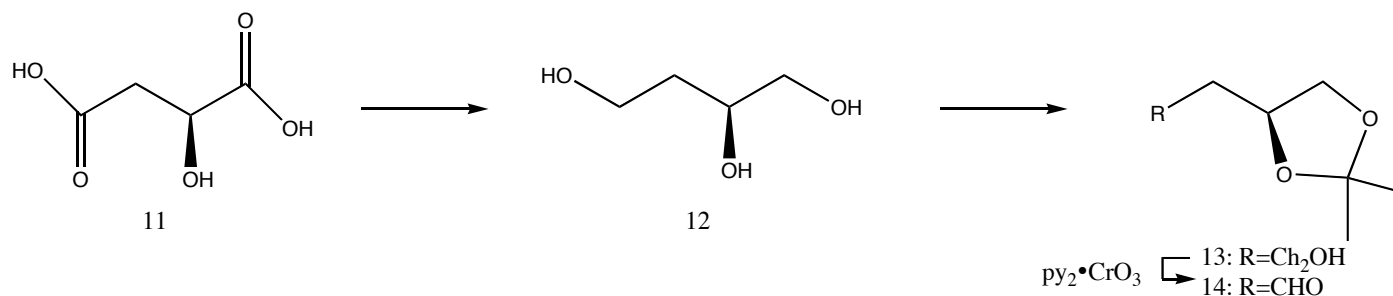
Baran Lab Group Meeting 9/10/2003

Corey Prostaglandins E₈ and F₃

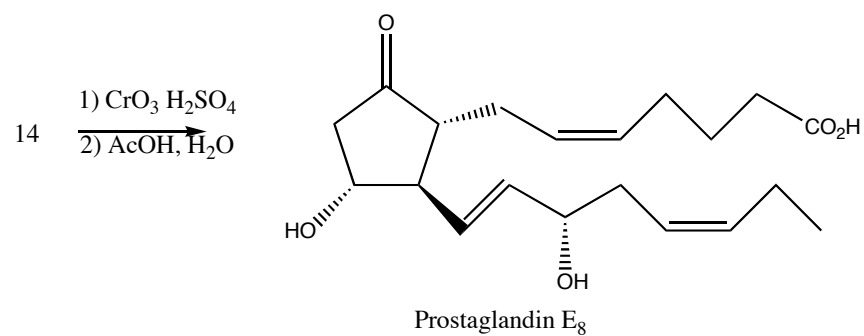
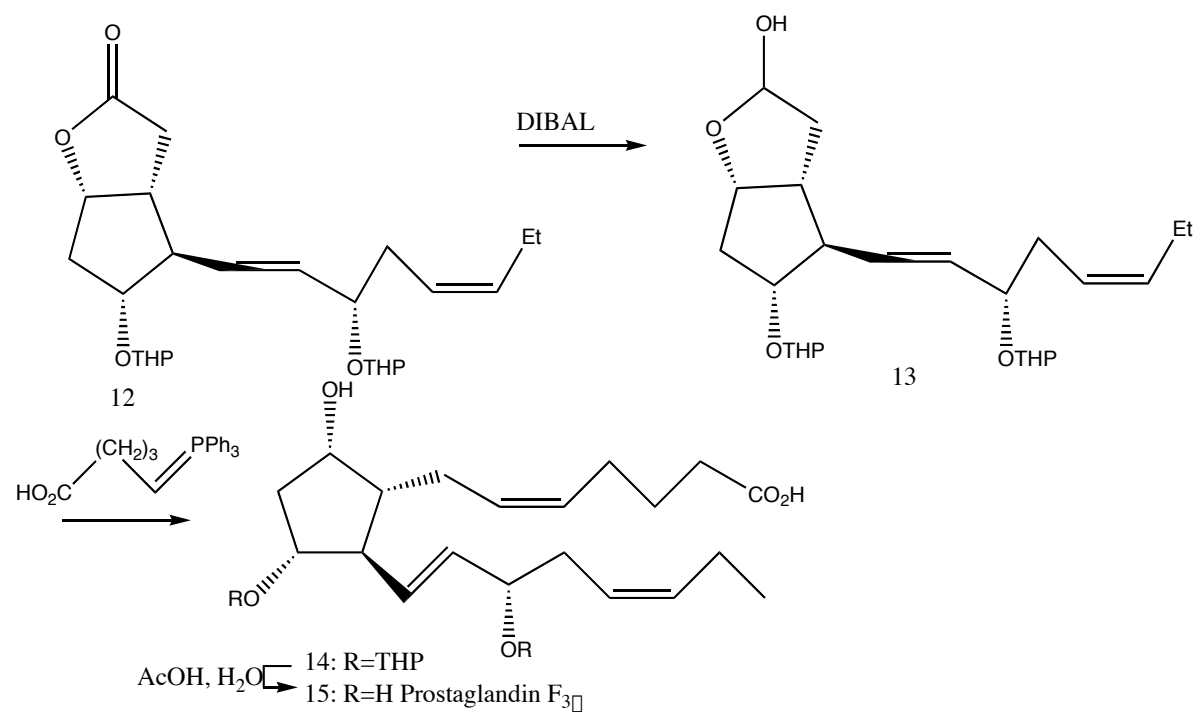


Corey et. Al. JACS 1971.1489-90, 1490-91, 1491-92.

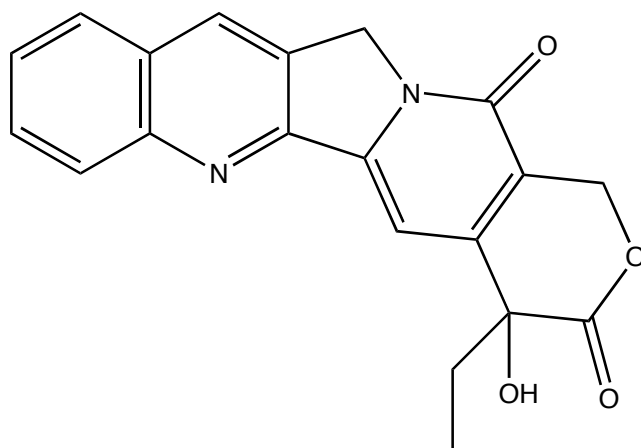
Prostaglandins Part 2



Prostaglandins Part 3



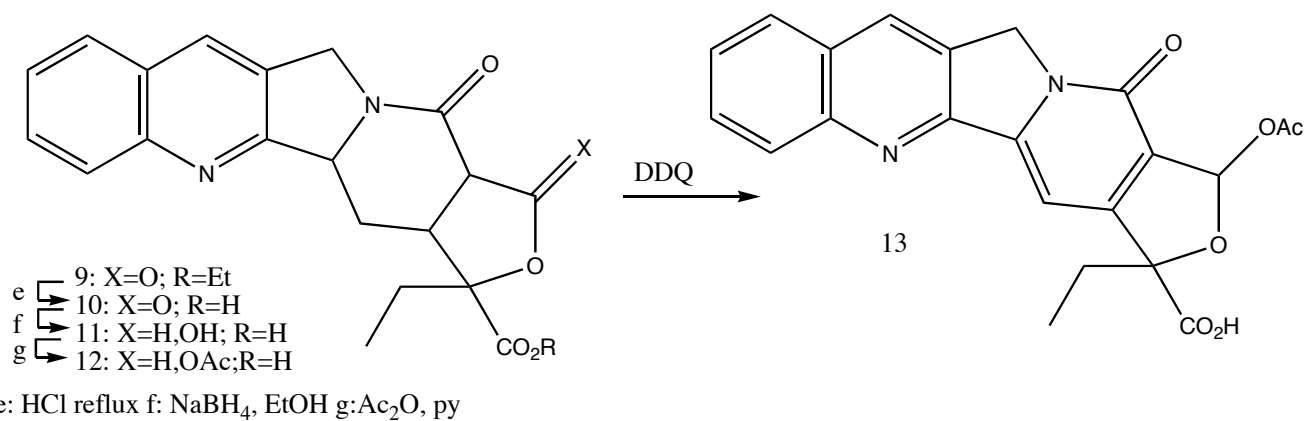
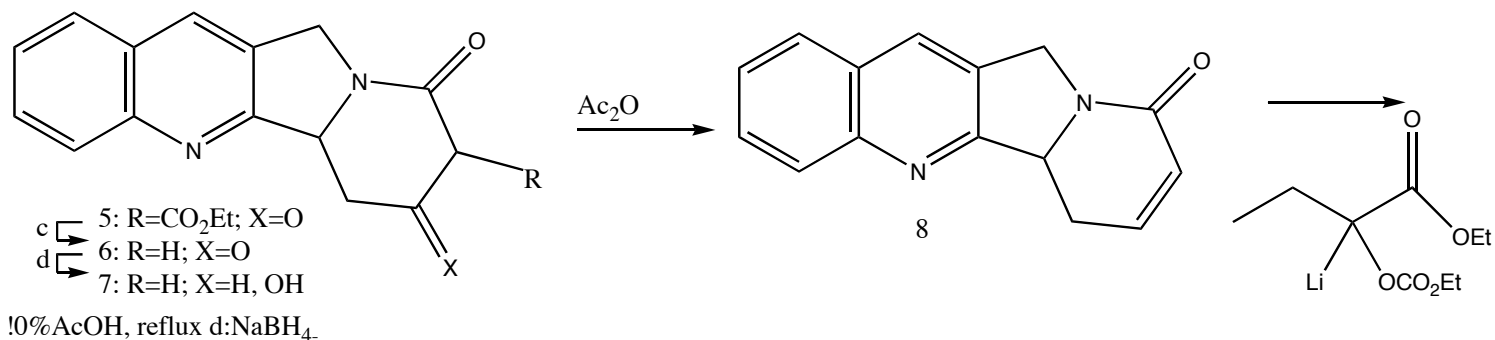
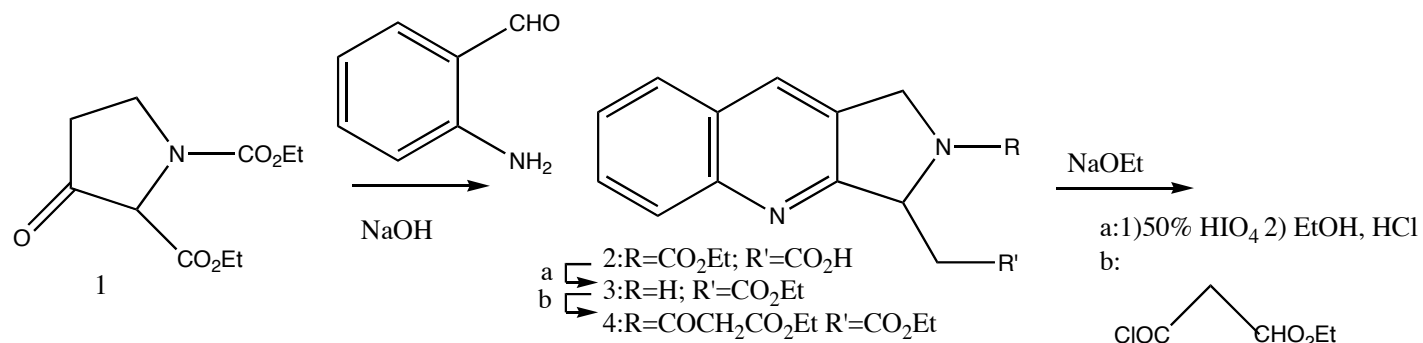
2 Syntheses of (±)-Camptothecin



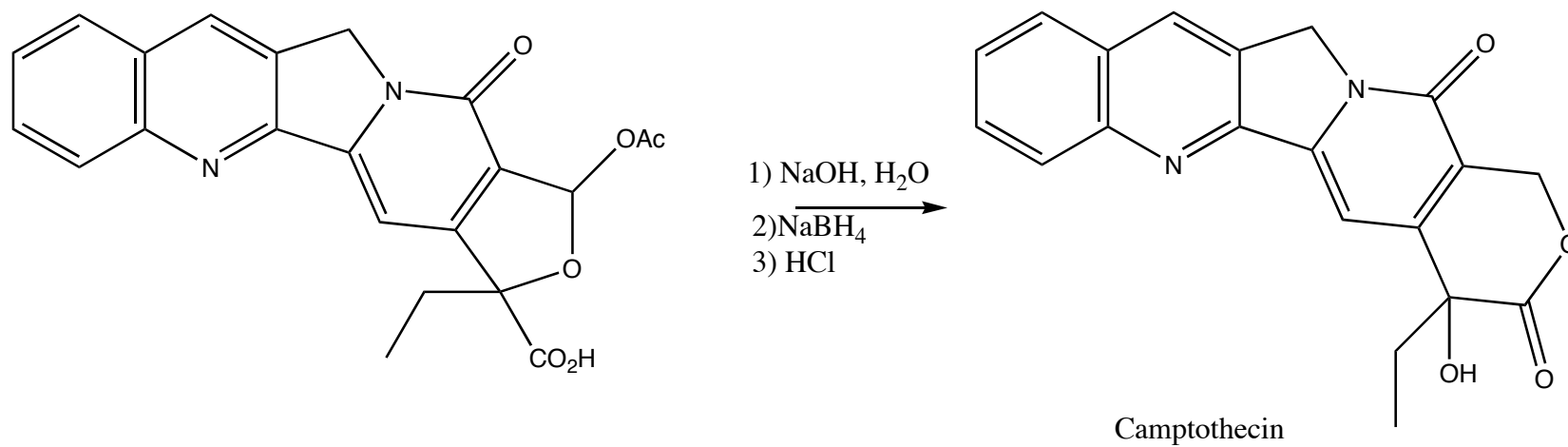
Camptothecin

Antitumor and antileukemia alkaloid
from *Camptotheca acuminata* tree

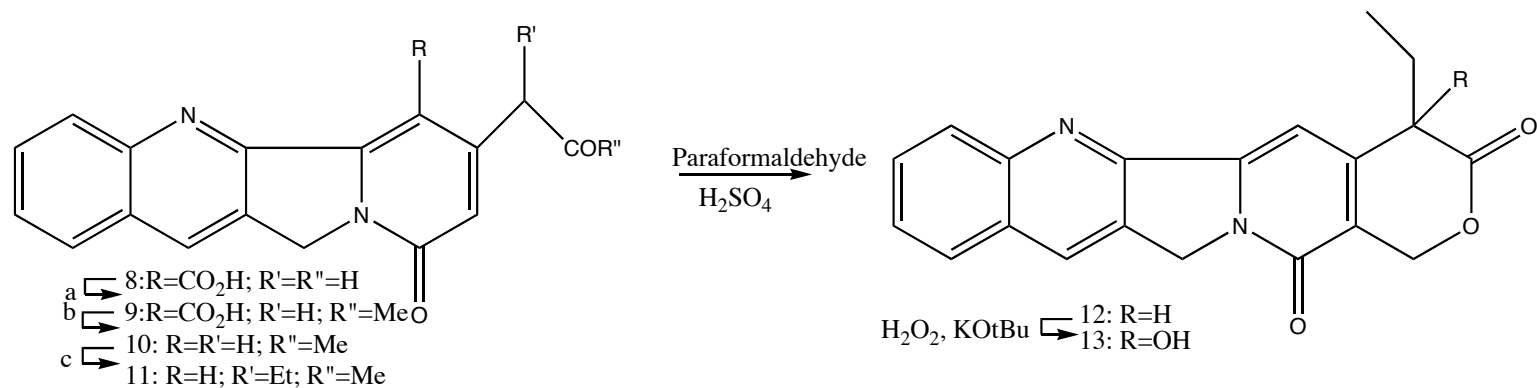
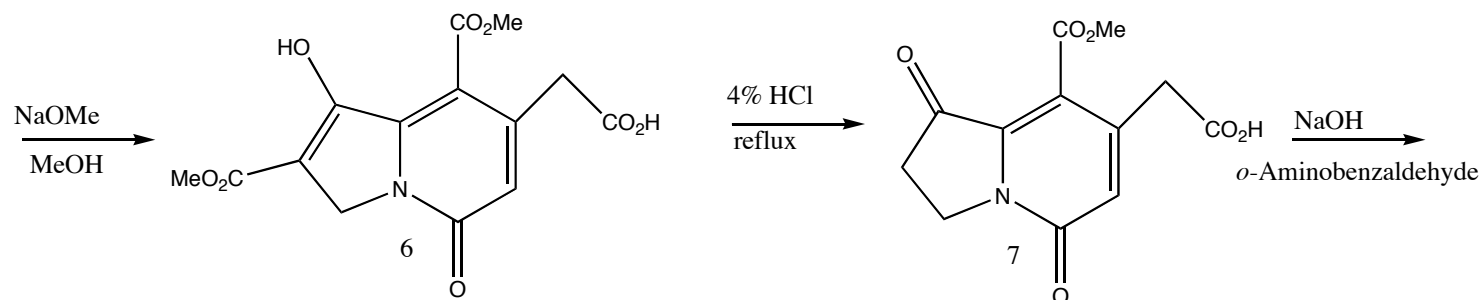
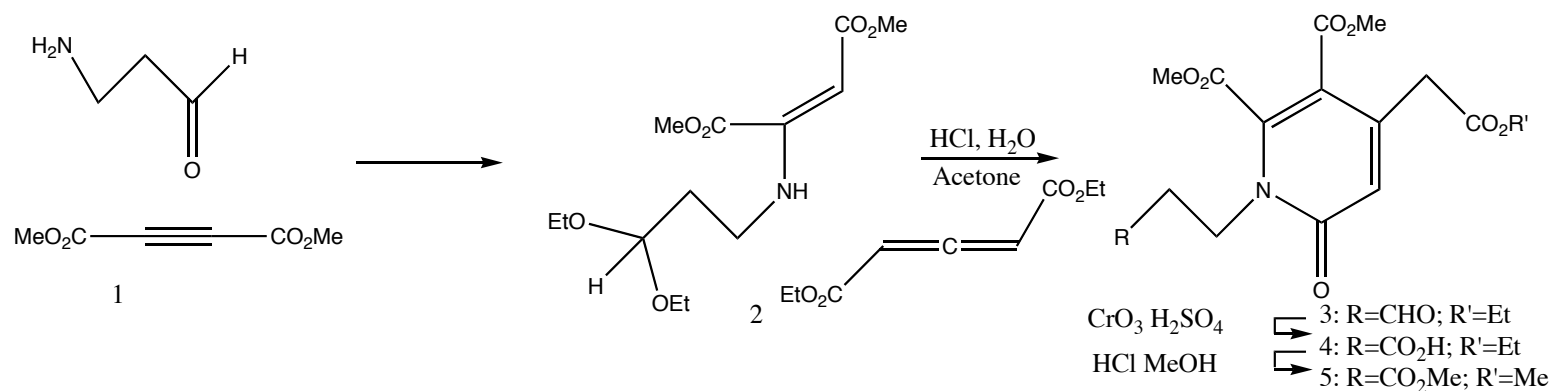
Stork Camptothecin



Stork Camptothecin part 2



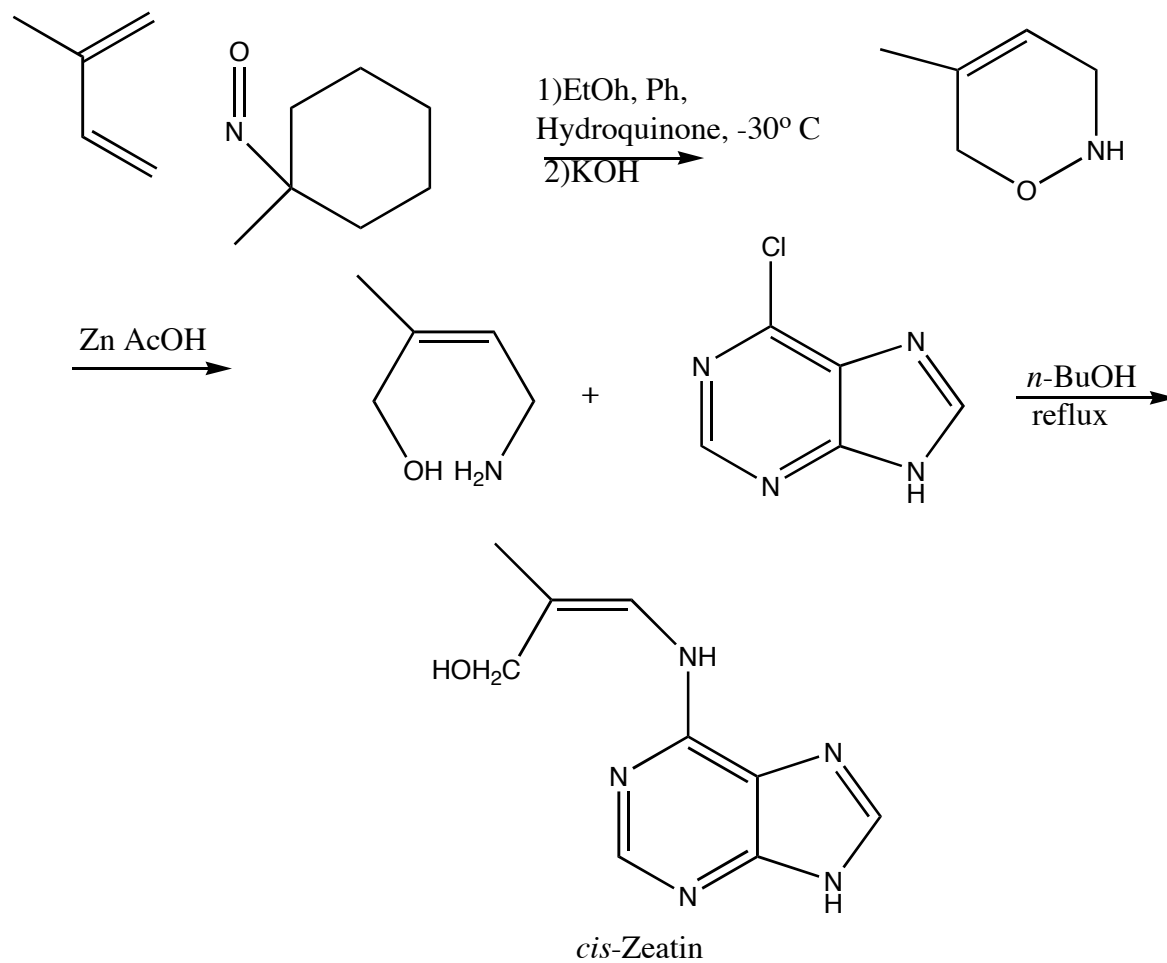
Danishefsky (+)-Camptothecin



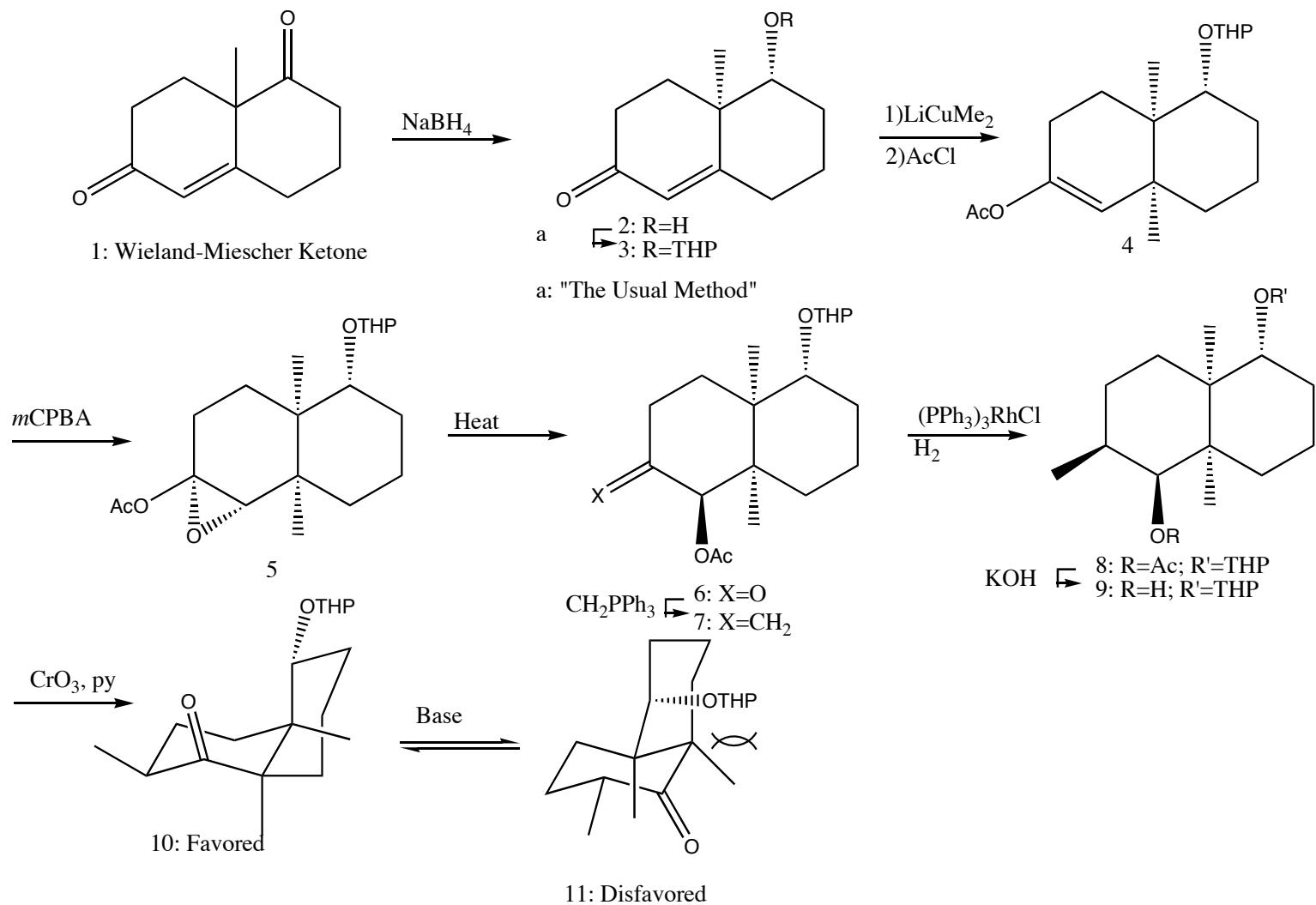
a: esterification b: CuO, heat c: NaH·DME, EtI

Danishefsky et. Al. JACS, 5577-78. (1971)

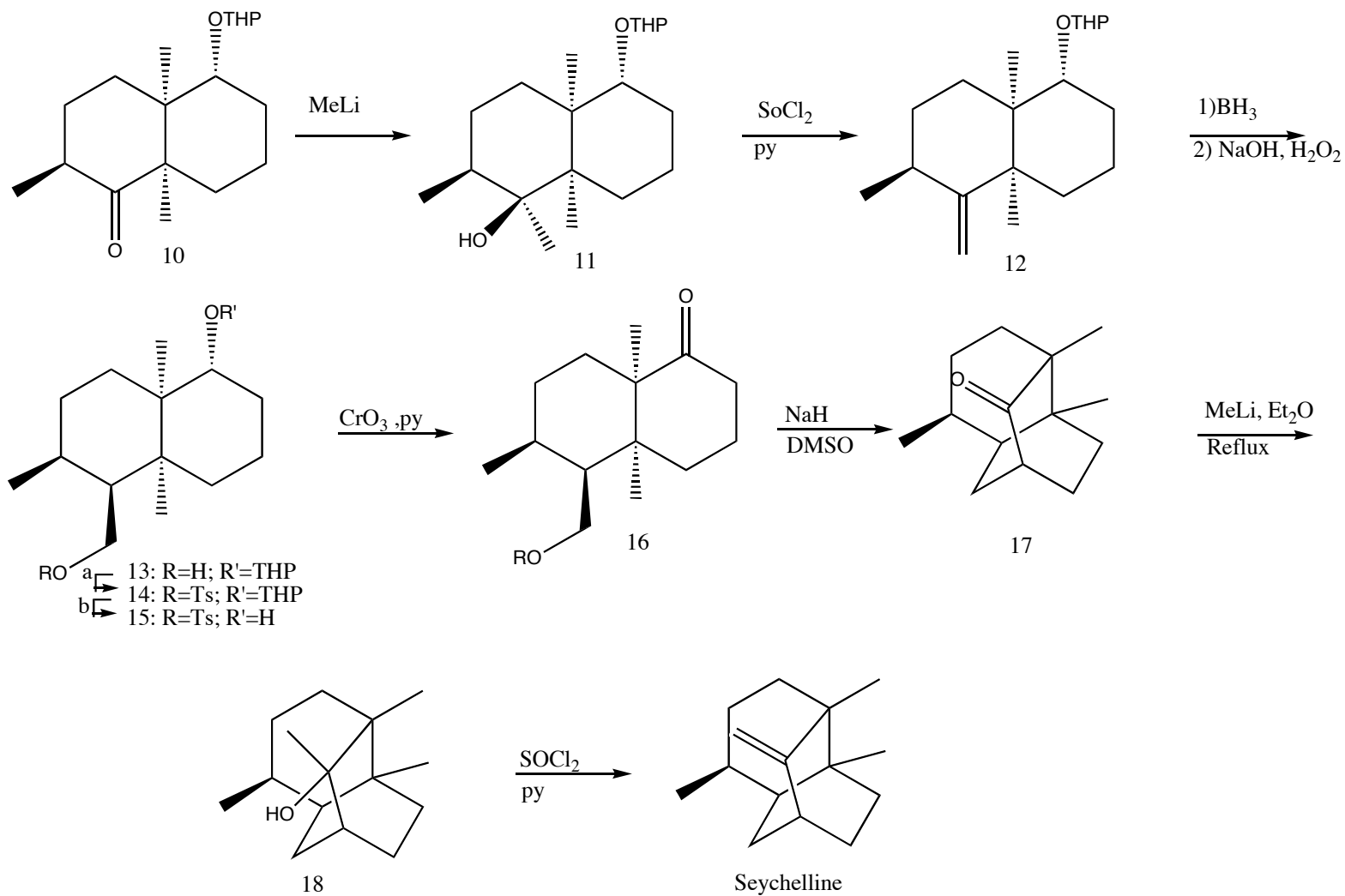
Cis-Zeatin



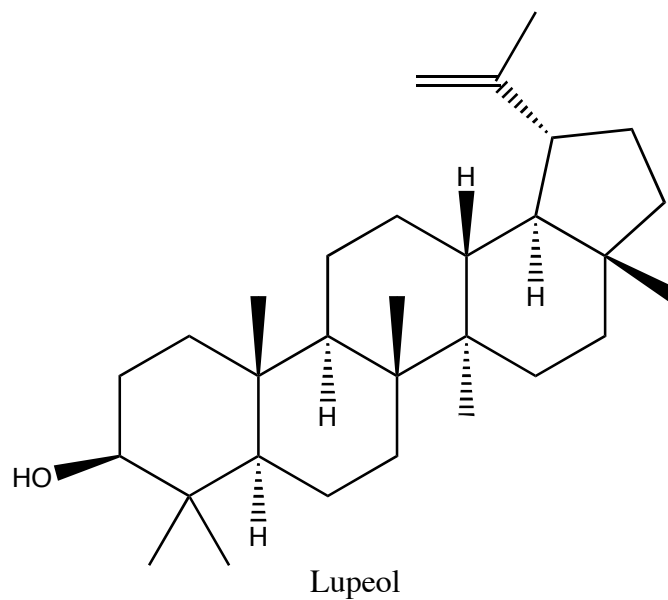
(+)-Seychellene



Seychelline Part 2

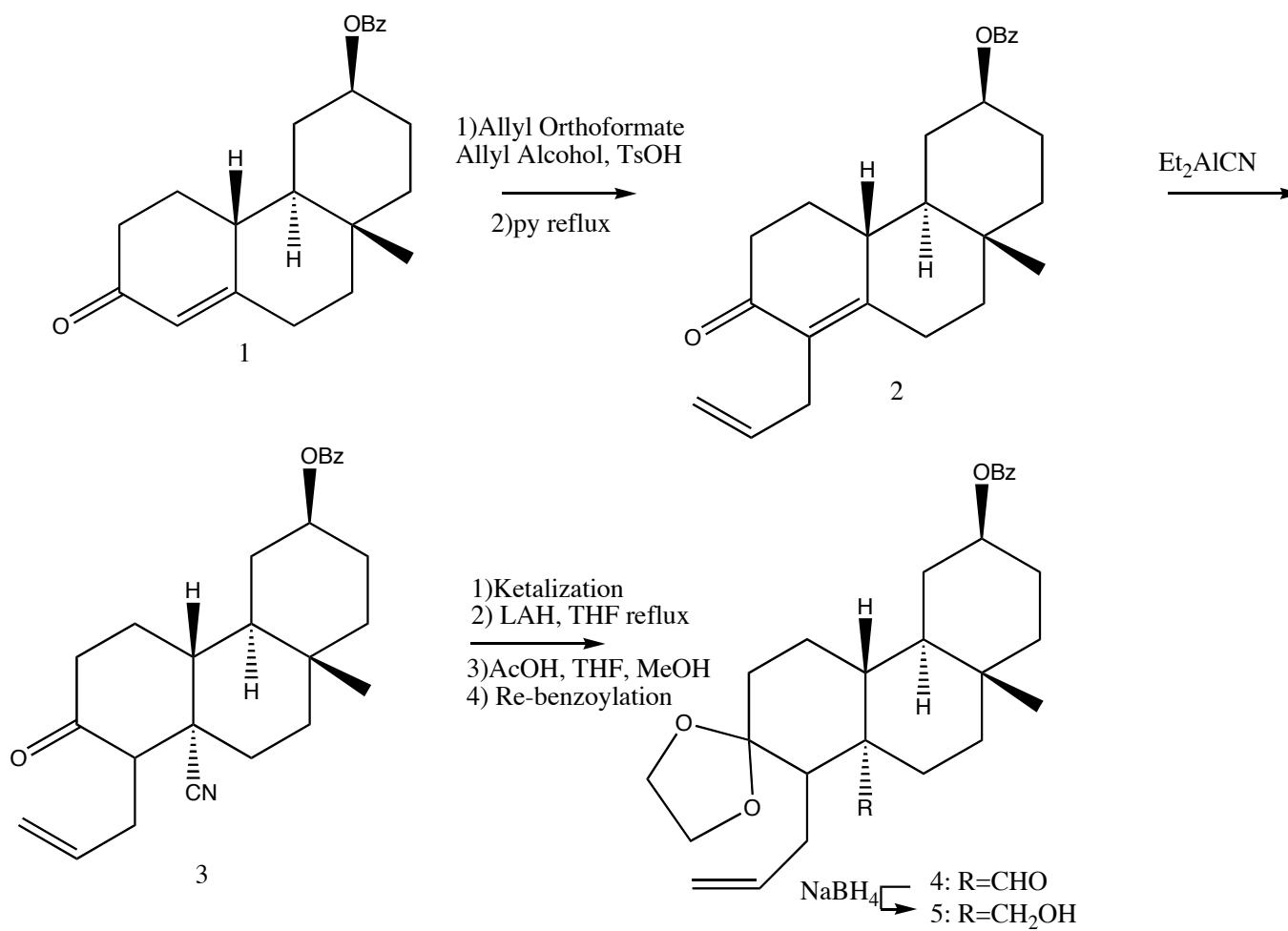


Stork (±)-Lupeol

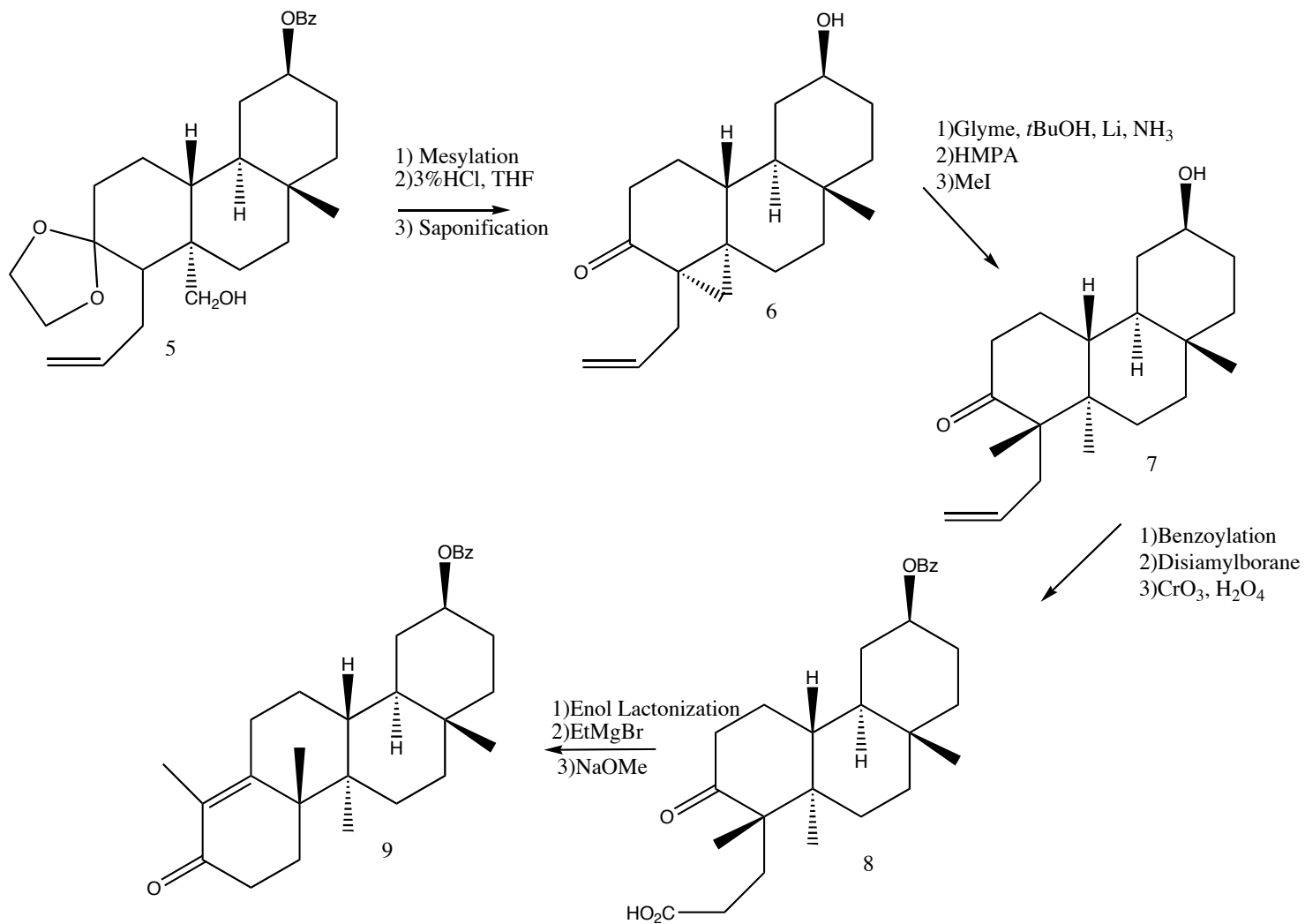


Pentacyclic Triterpene
10 Asymmetric Centers

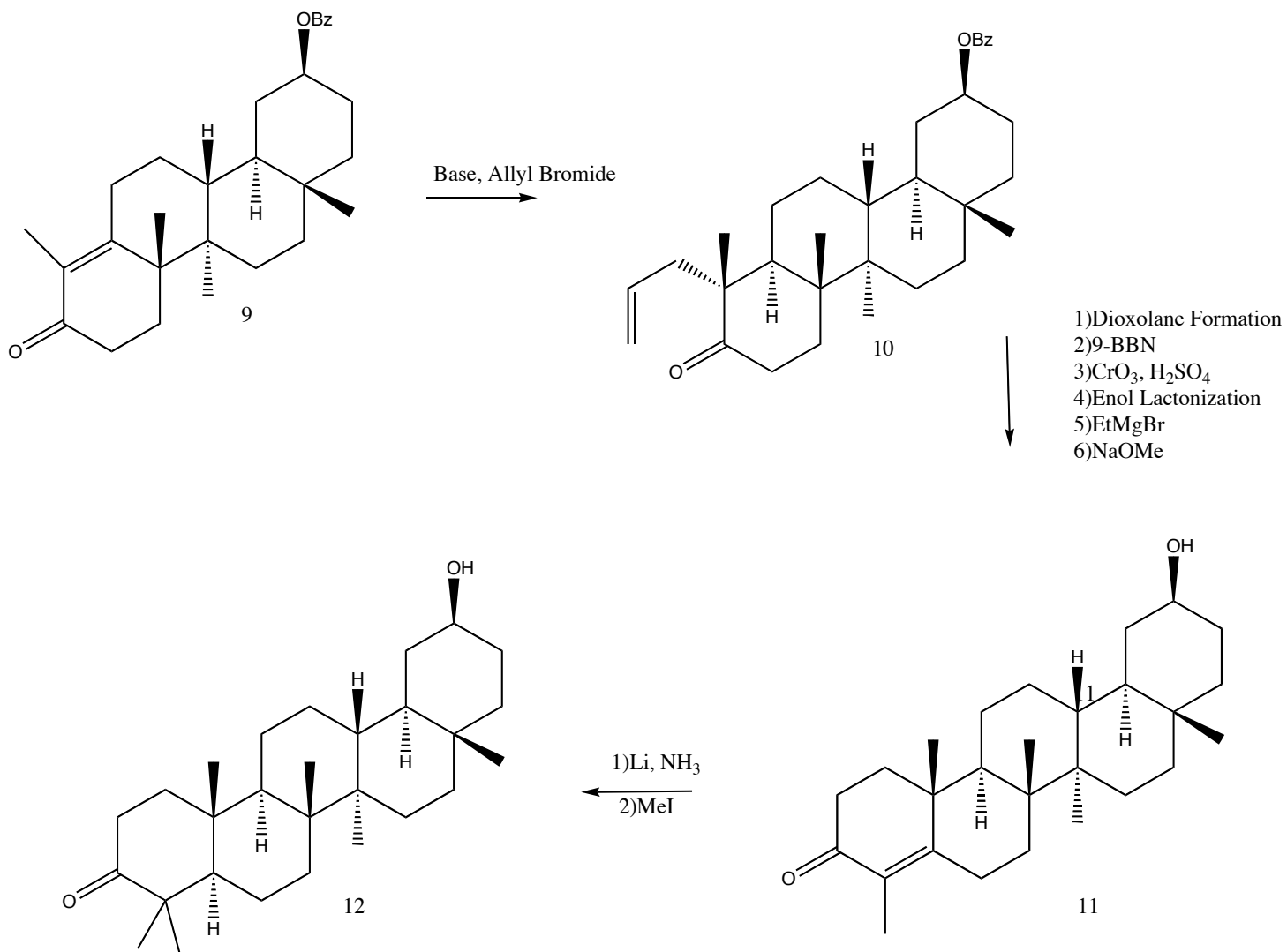
Lupeol 1



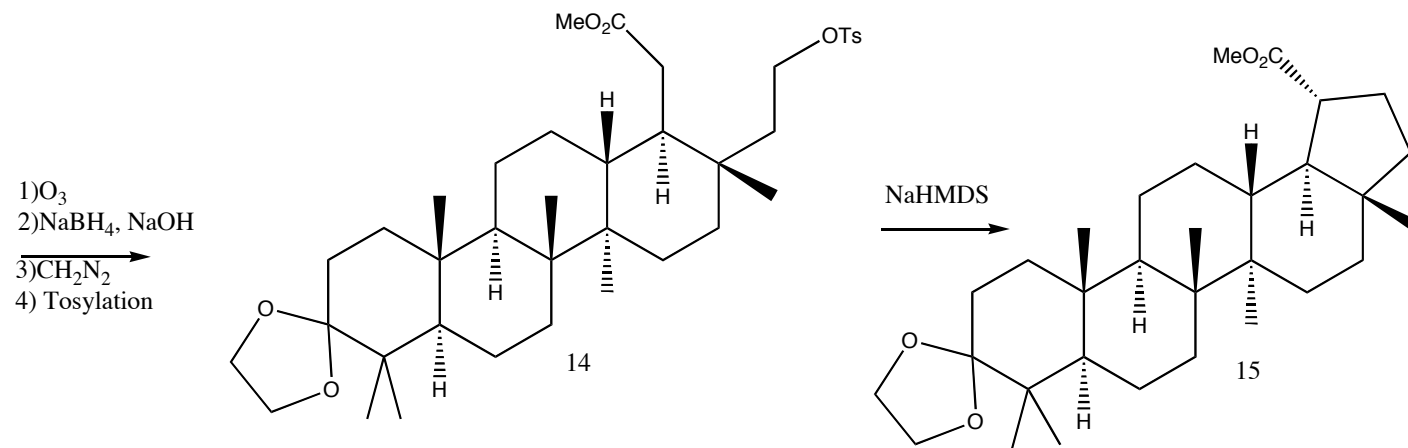
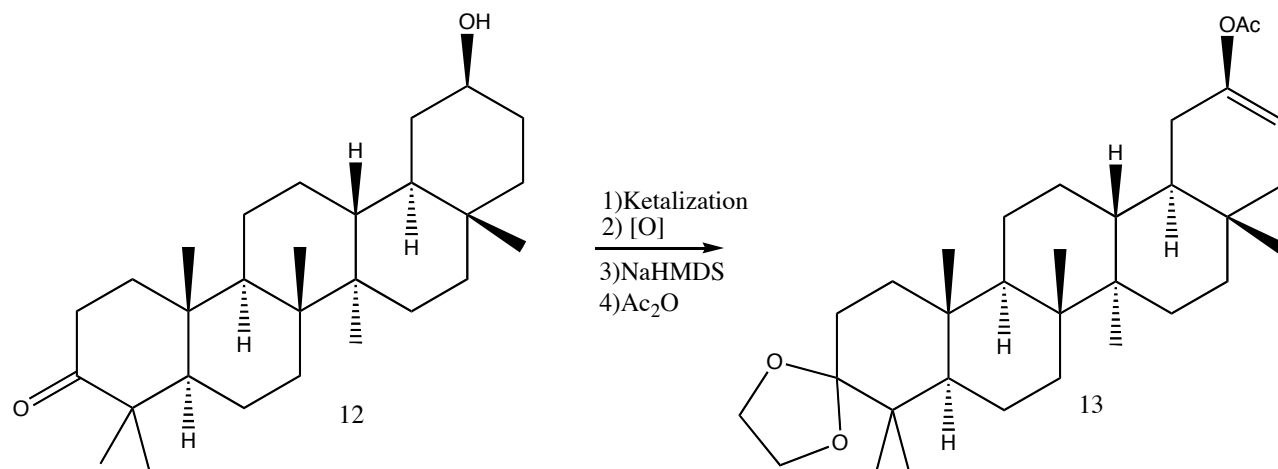
Lupeol 2



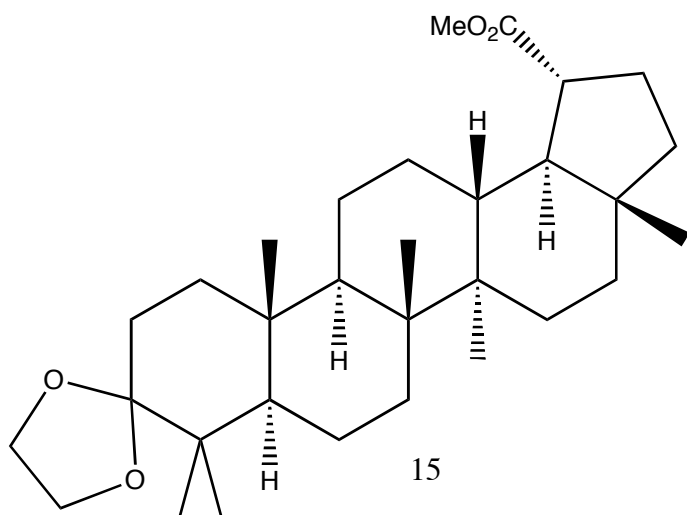
Lupeol 3



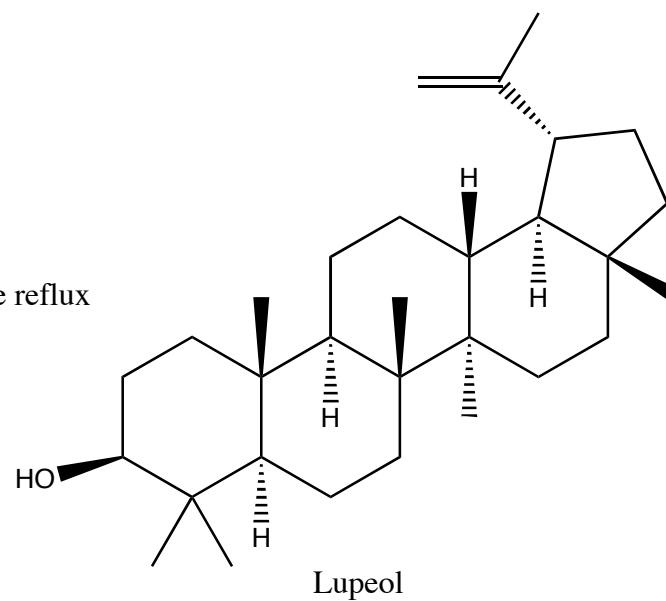
Lupeol 4



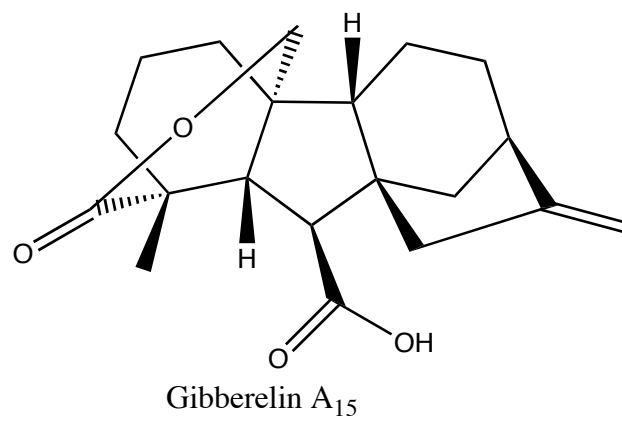
Lupeol 5



1) MeLi, Dioxane reflux
2) POCl_3 , py
3) deketalization
4) NaBH_4

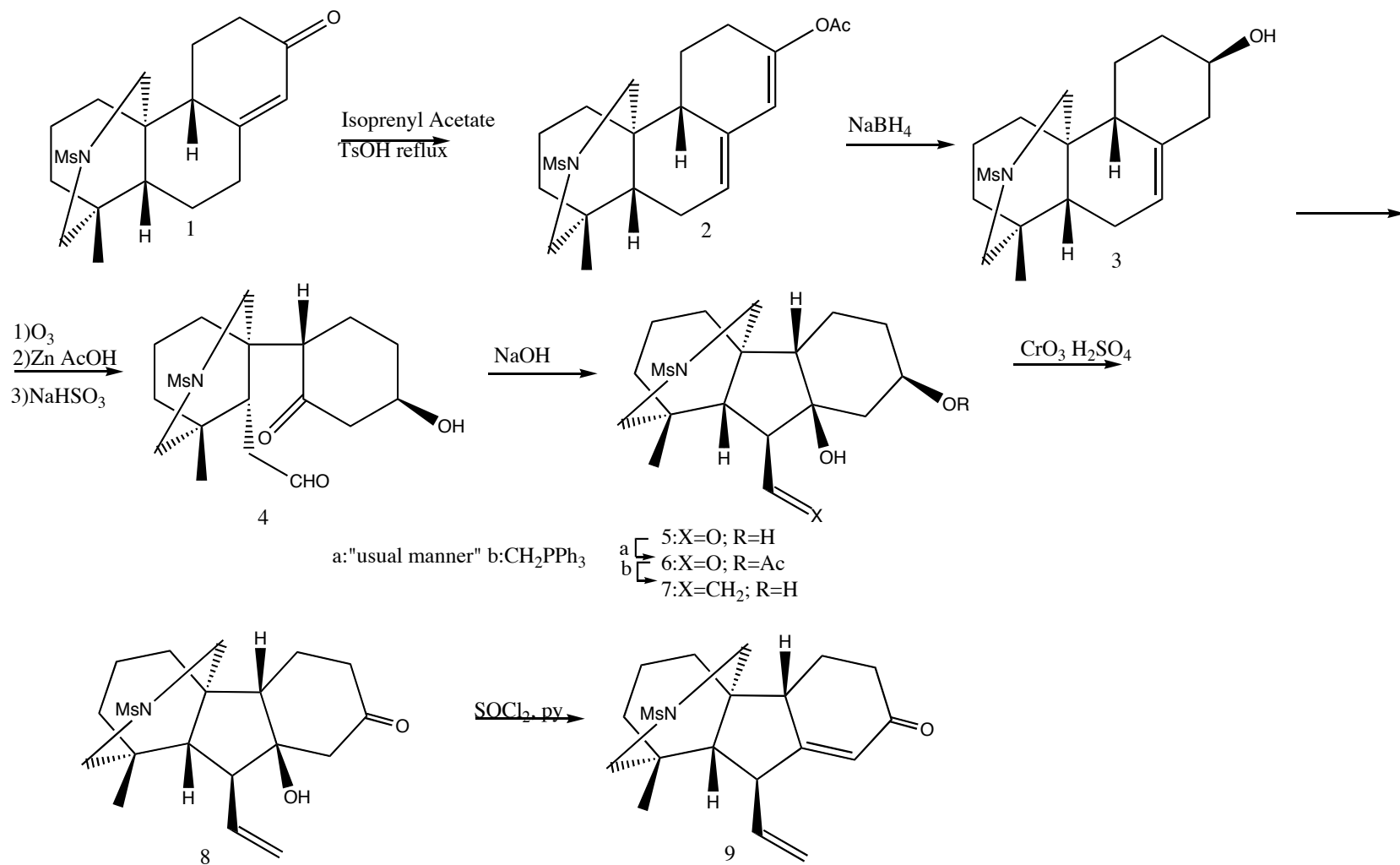


(+)-Gibberelin A₁₅

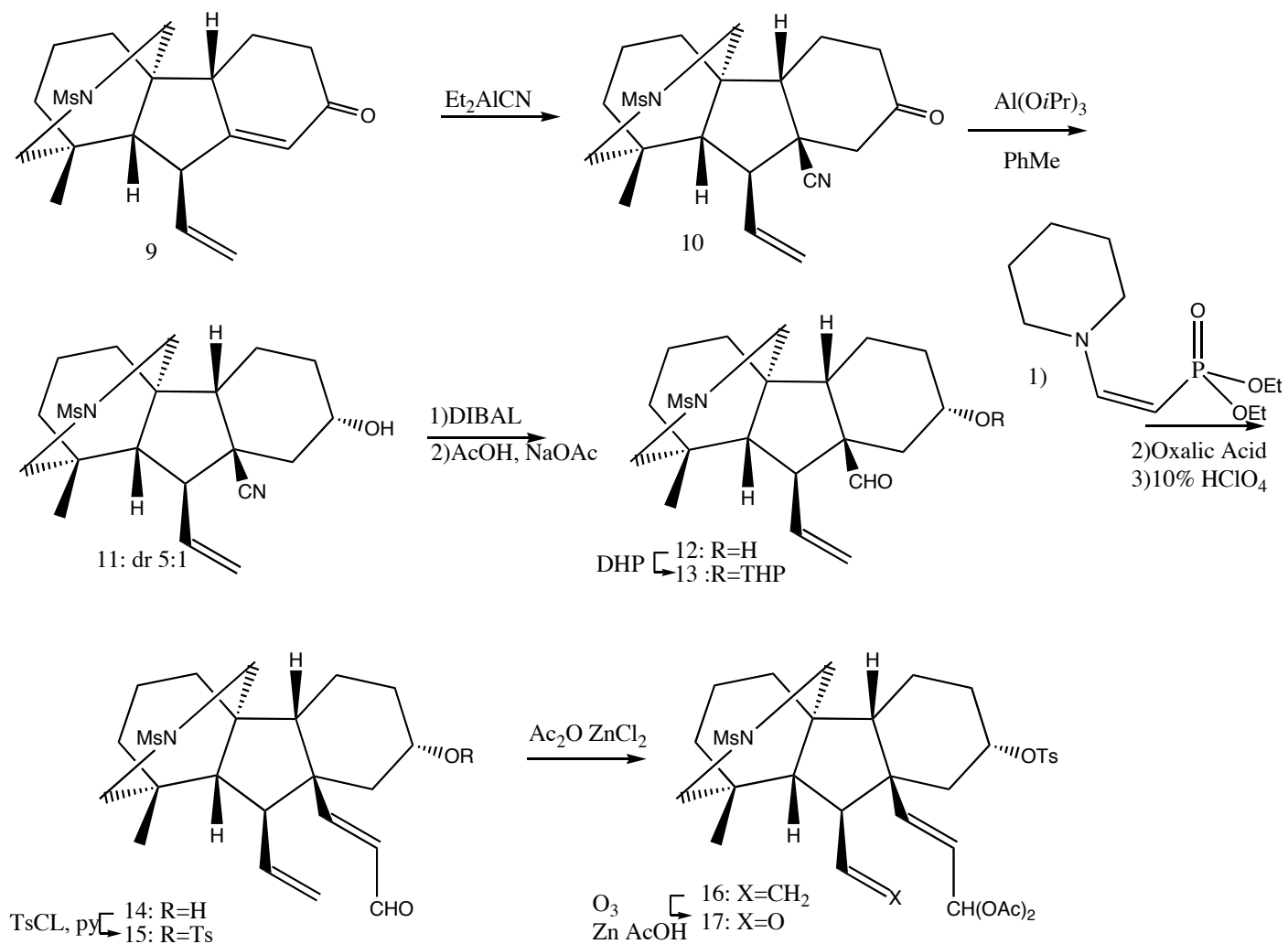


Nagata et. Al. JACS 1971 5740-58.

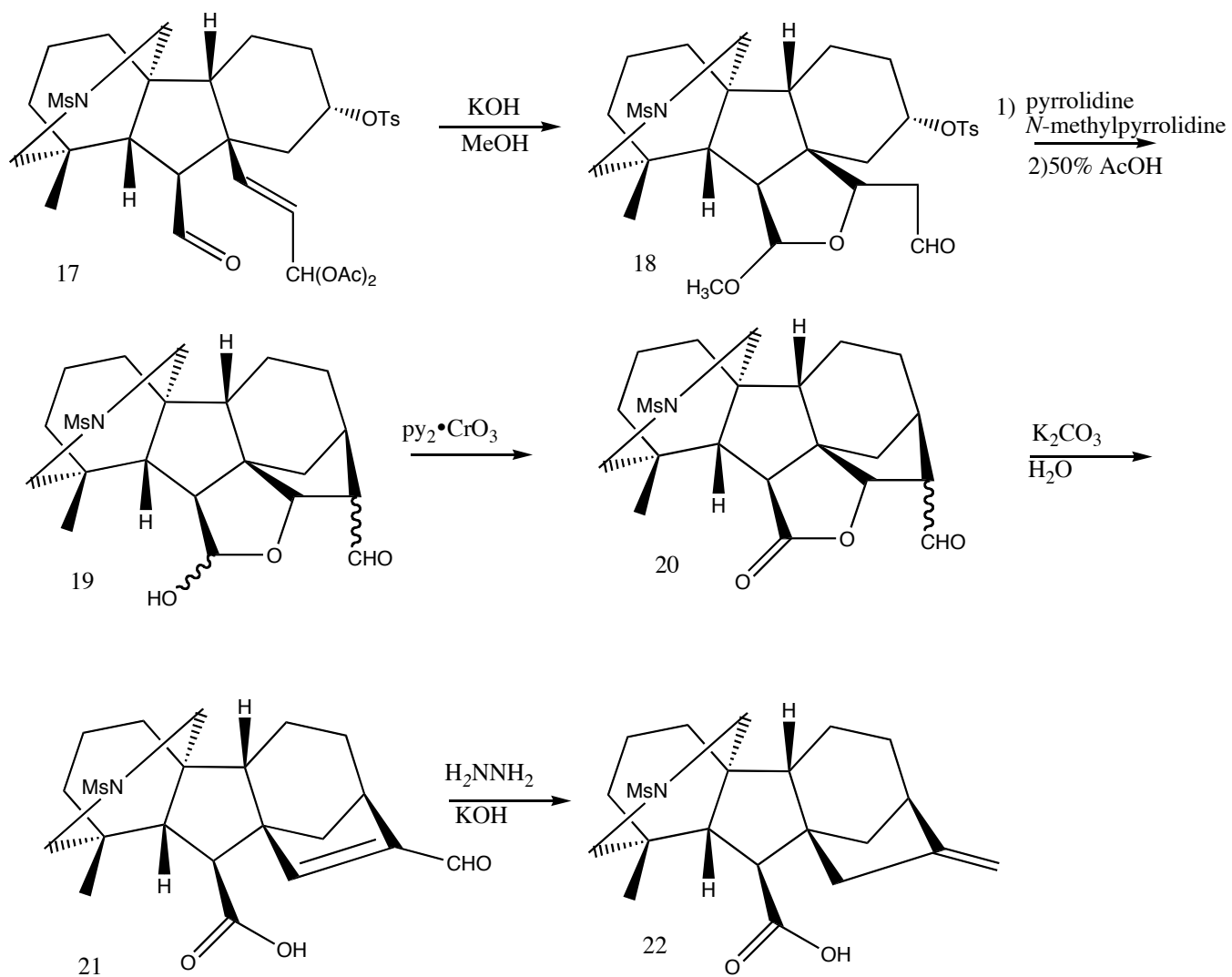
Gibberelin 1



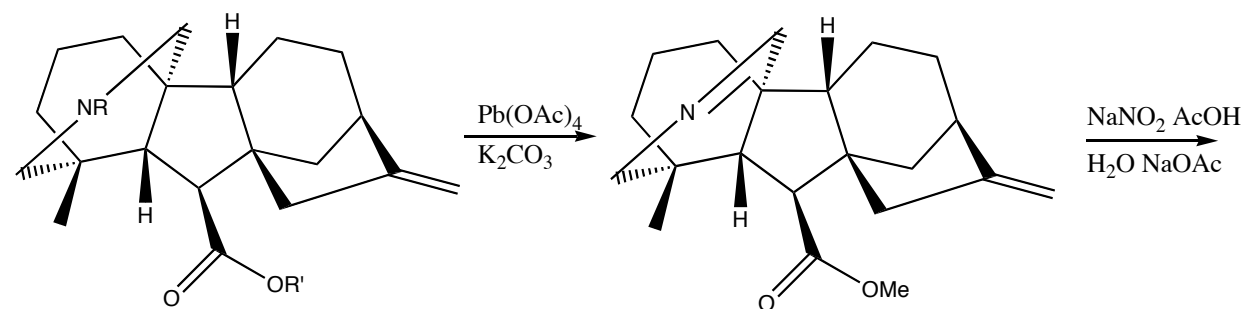
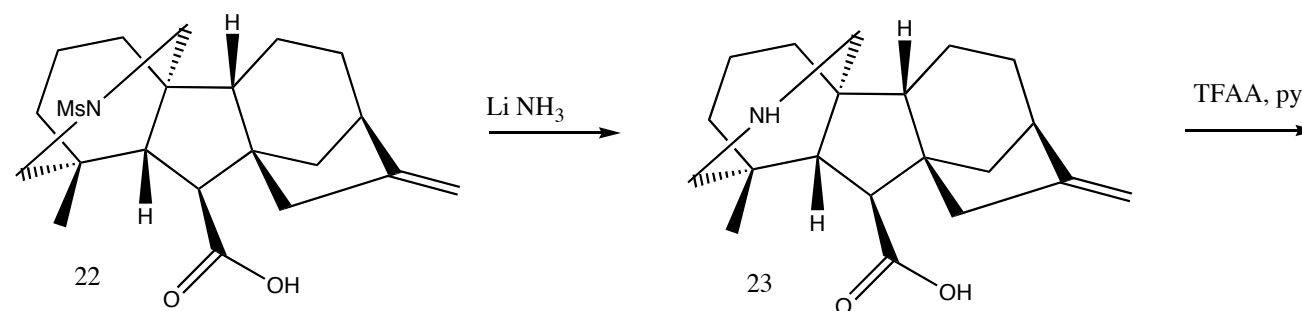
Gibberelin 2



Gibberelin 3

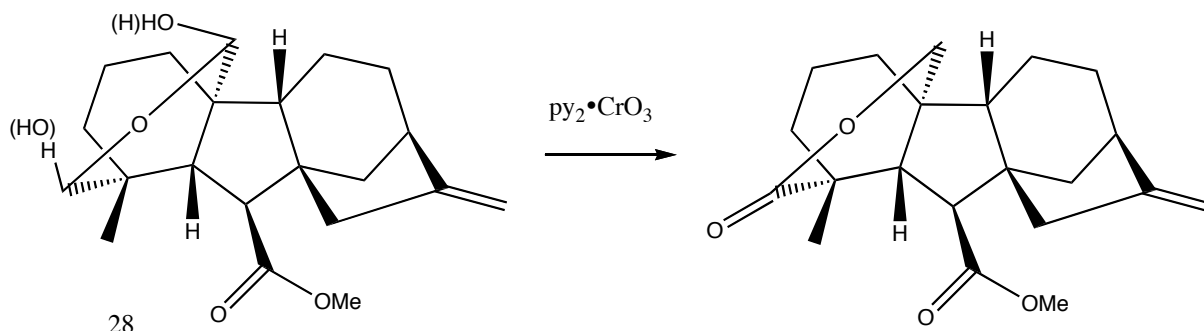


Gibberelin 4



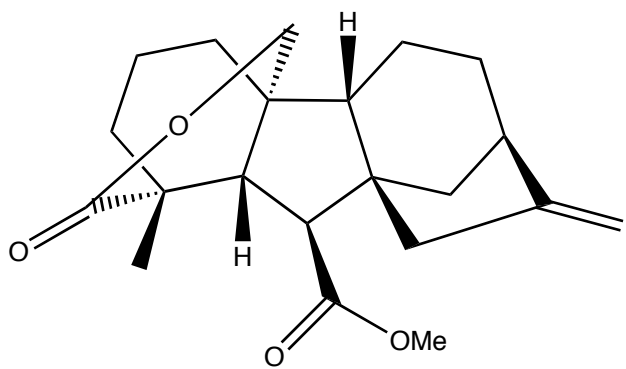
a \square 24: R=CF₃CO; R'=H a: CH₂N₂
 b \square 25: R=CF₃CO; R'=Me b: K₂CO₃
 26: R=H; R'=Me

27: Mixture of Regioisomers

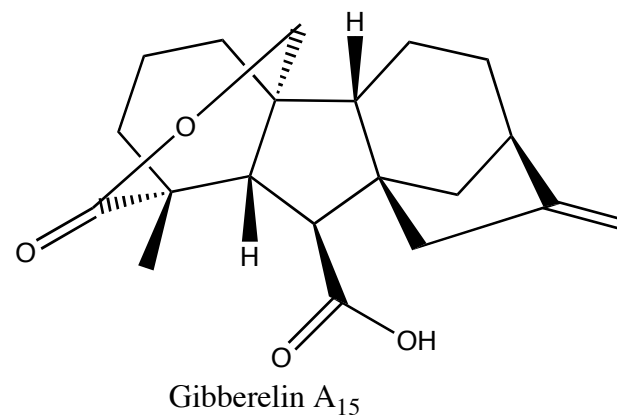
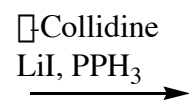


29: Regioisomers Separated

Gibberelin 5

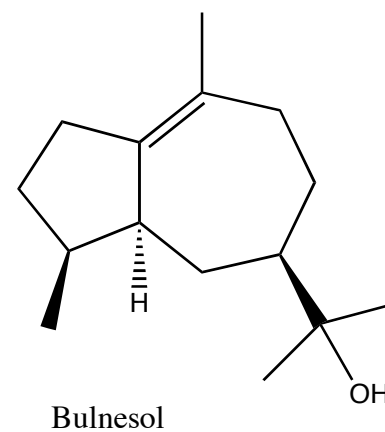
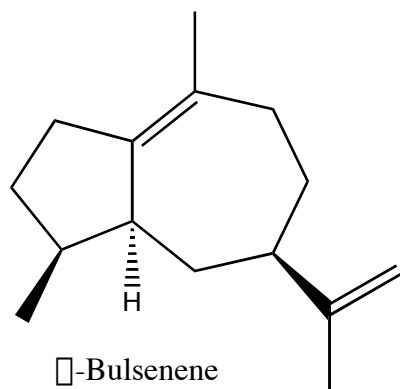


29

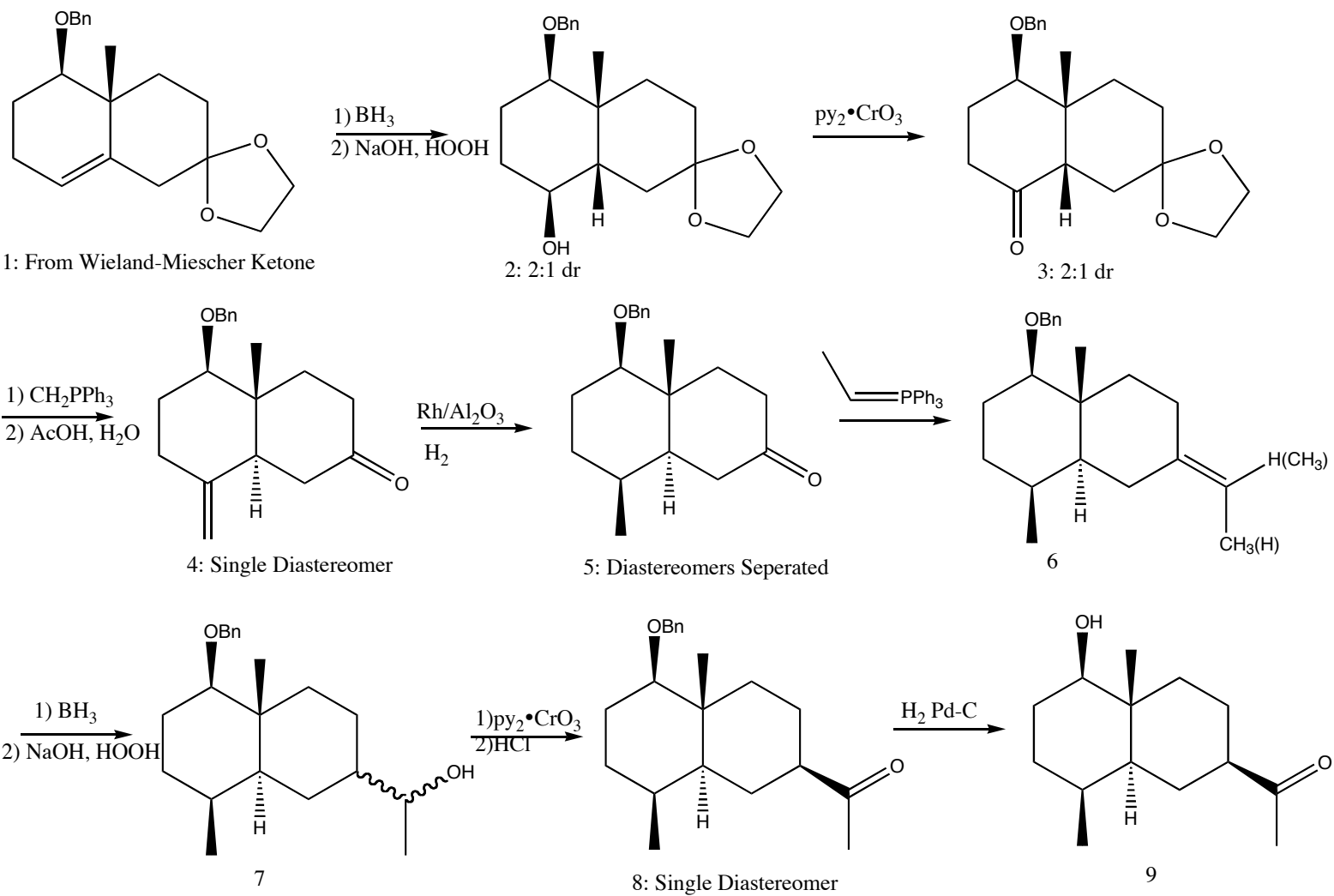


Gibberelin A₁₅

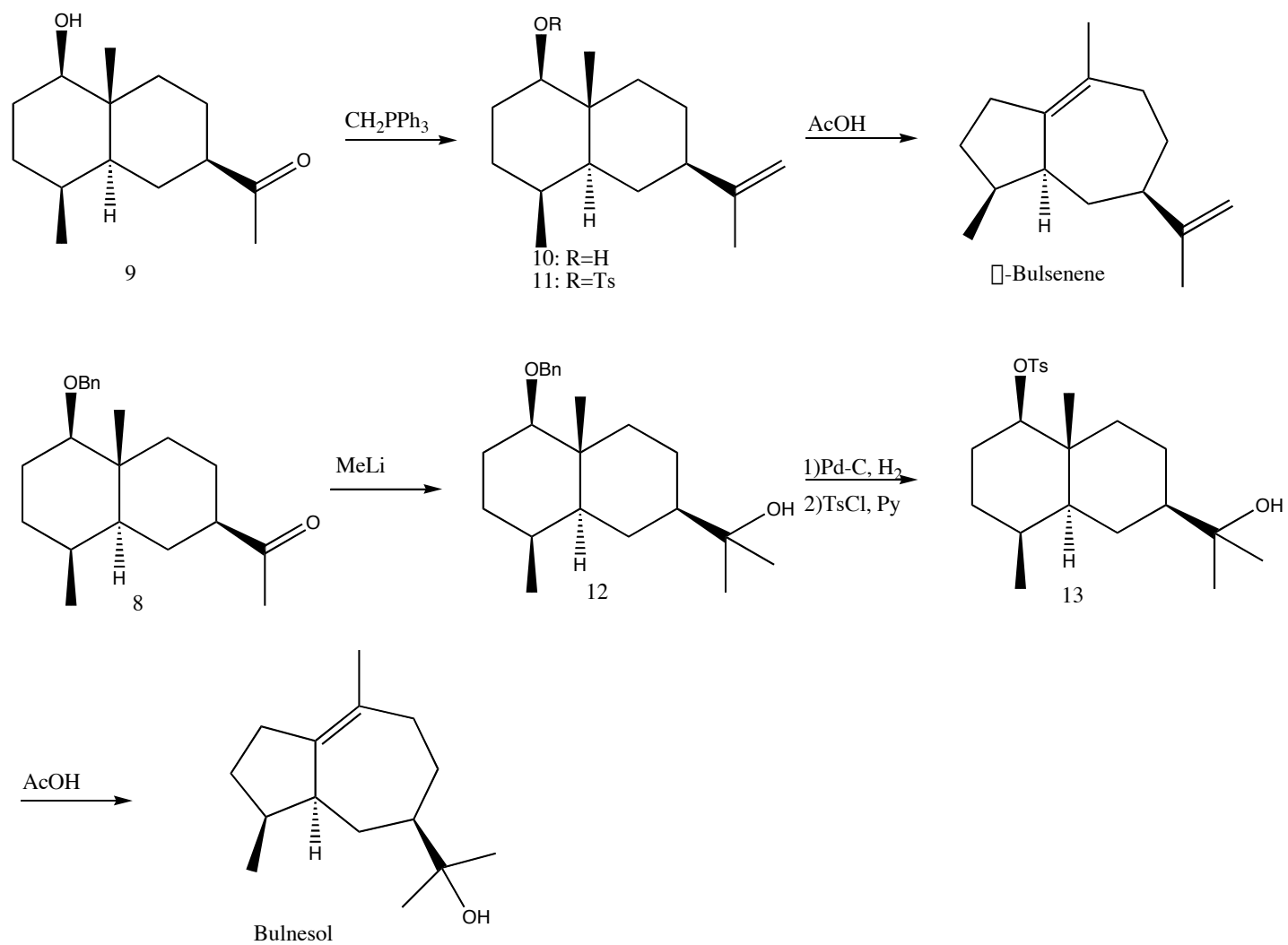
Heathcock (±)-□-Bulnesene and (±)-Bulnesol



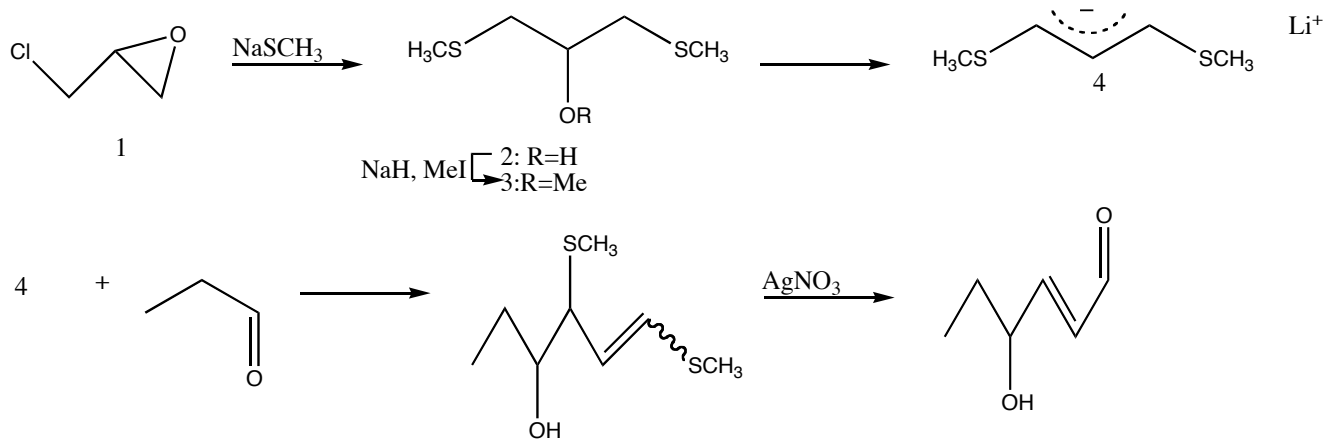
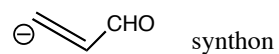
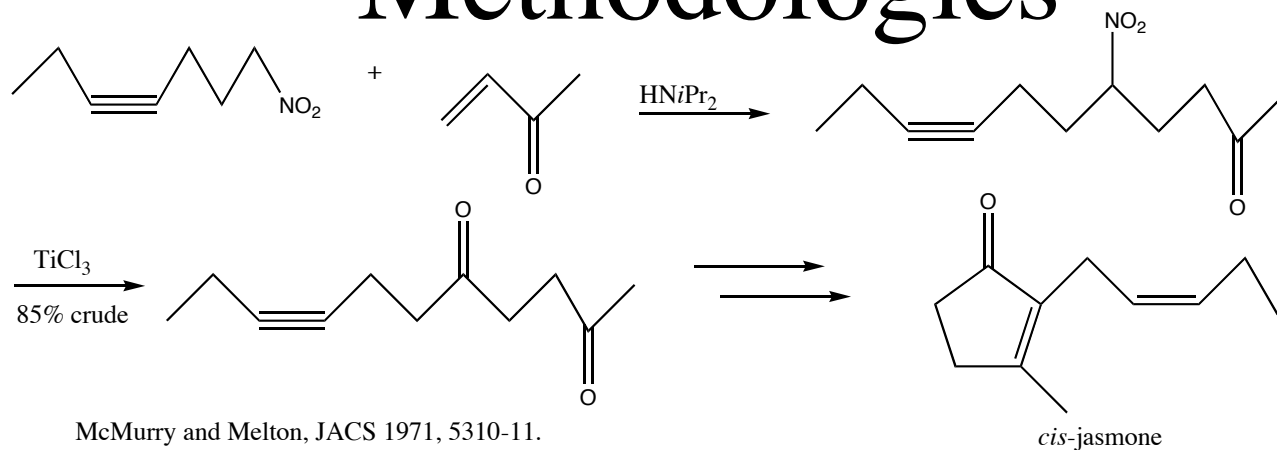
Bulnesene 1



Bulnesene 2



Methodologies



Corey et. Al. JACS 1971 1724-1729