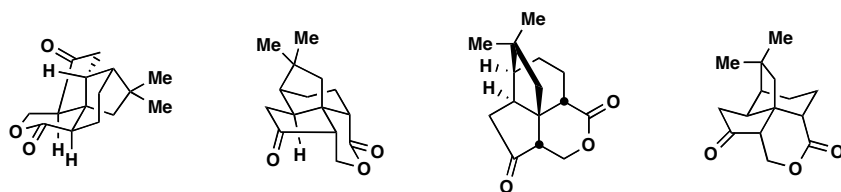


Wednesday, January 21, 2004

## Syntheses discussed:



QUADRONE

Danishefsky, 1980 (JACS, 4262)  
Helquist, 1981 (JACS, 4647)  
Burke, 1982 (JACS, 872)  
Kende, 1982 (JACS, 5808)  
Yoshii, 1983 (JACS, 563)  
Schlessinger, 1983 (JOC, 1146)

Smith, 1984 (JOC, 4094)  
Wender, 1985 (JOC, 4418)  
Piers, 1985 (TL, 2735)  
Funk, 1986 (JOC, 3247)  
Magnus, 1987 (JOC, 1483)  
Little, 1990 (JOC, 1483)

## Partial list of transforms discussed:

Mukaiyama reaction

Wharton reduction of  $\alpha,\beta$  epoxy ketones

Stille coupling of alkyl groups to acylpalladium species

Nickel-mediated Negishi-type coupling

Decarboxylative chlorination

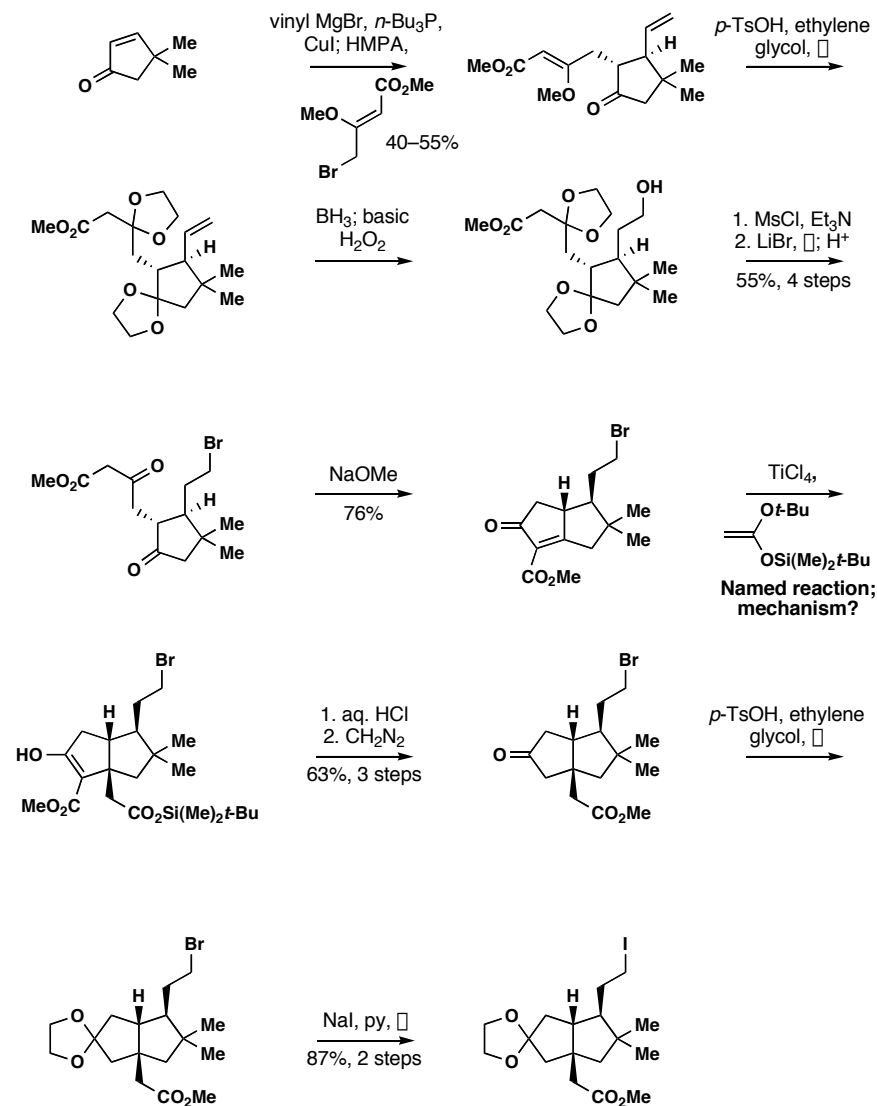
Shapiro reaction

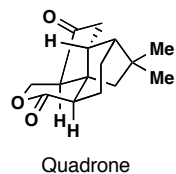
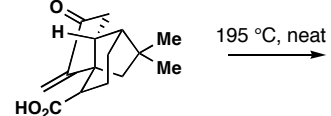
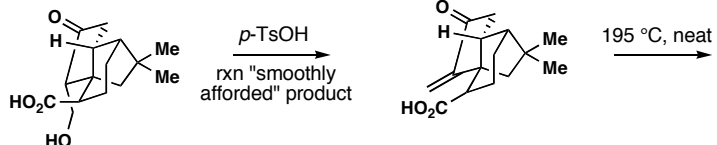
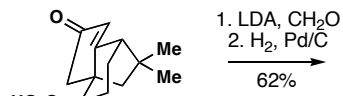
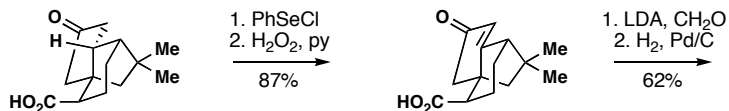
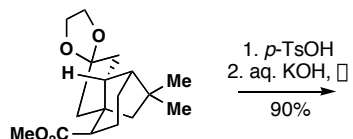
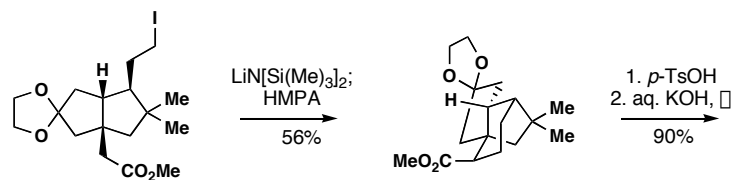
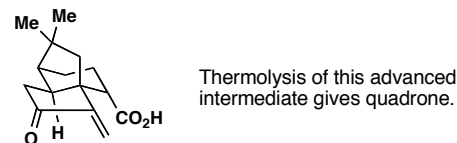
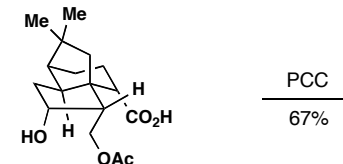
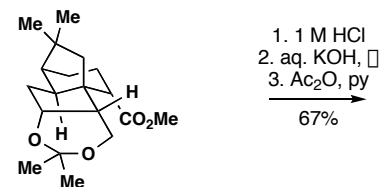
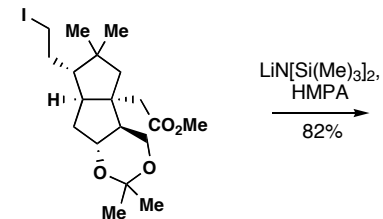
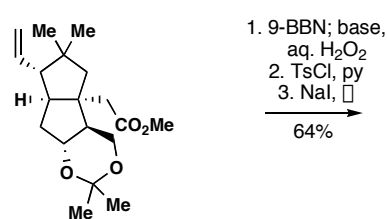
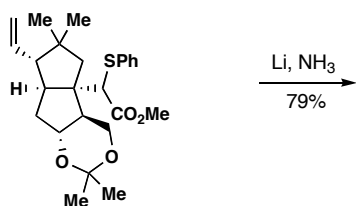
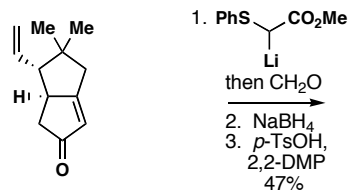
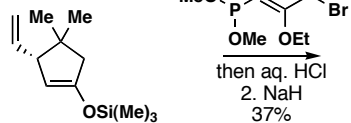
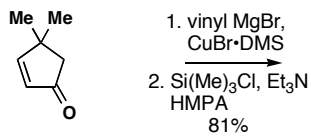
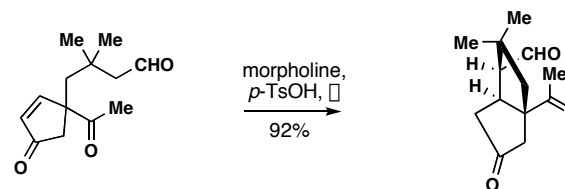
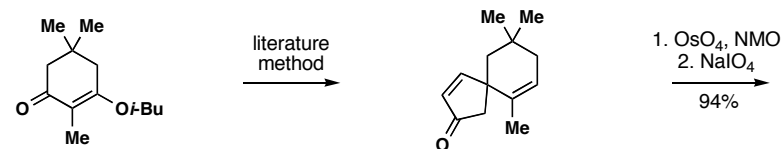
Macrolactonization using Mukaiyama's salt

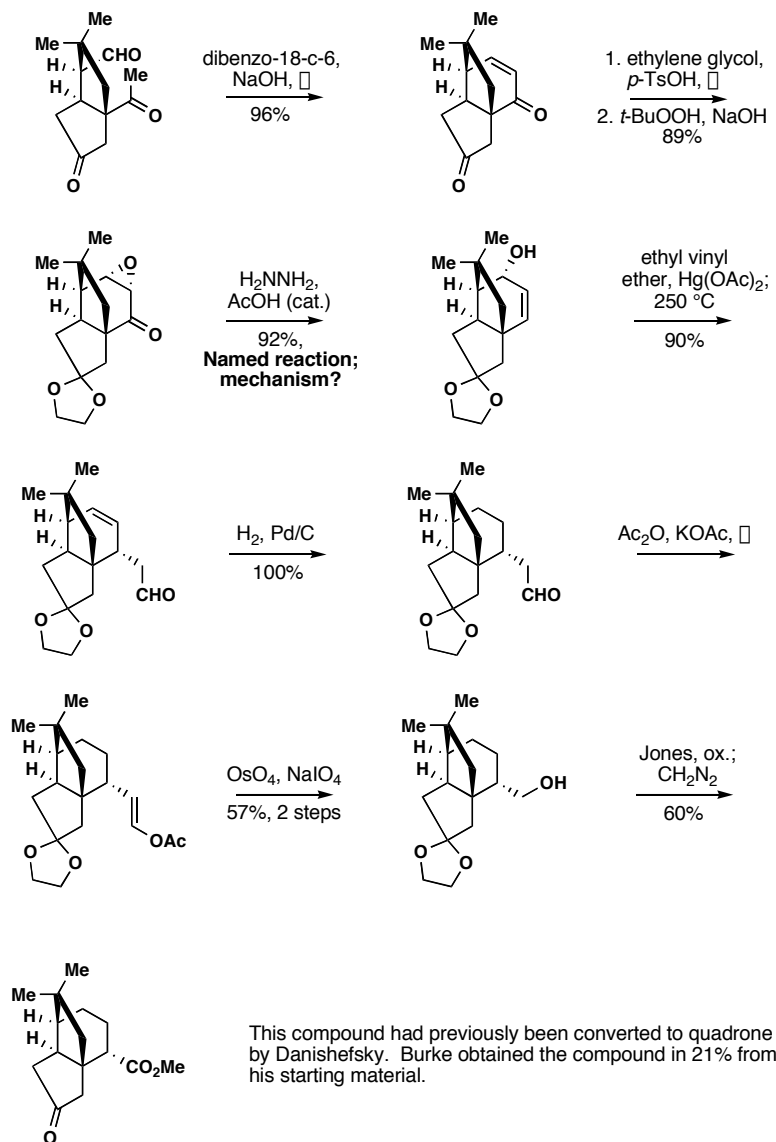
Pauson-Khand reaction

Decarboxylative radical generation

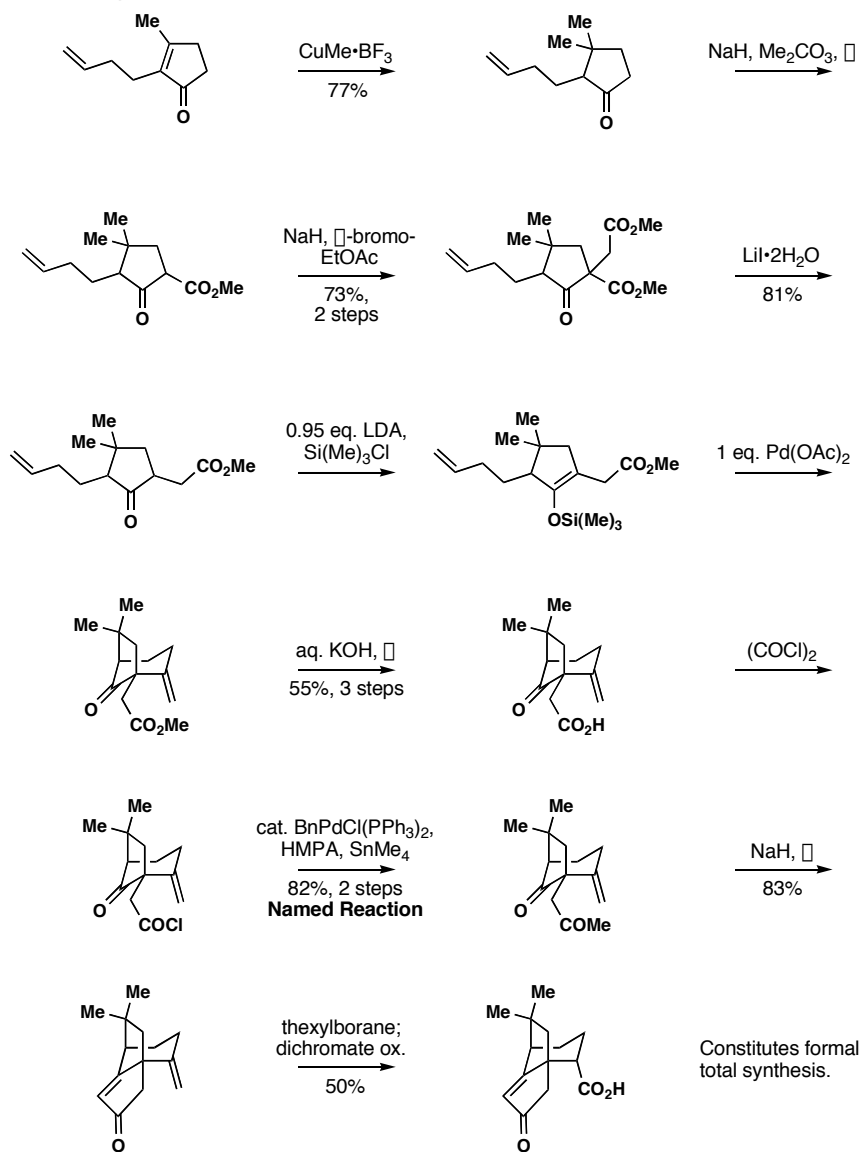
## Danishefsky synthesis



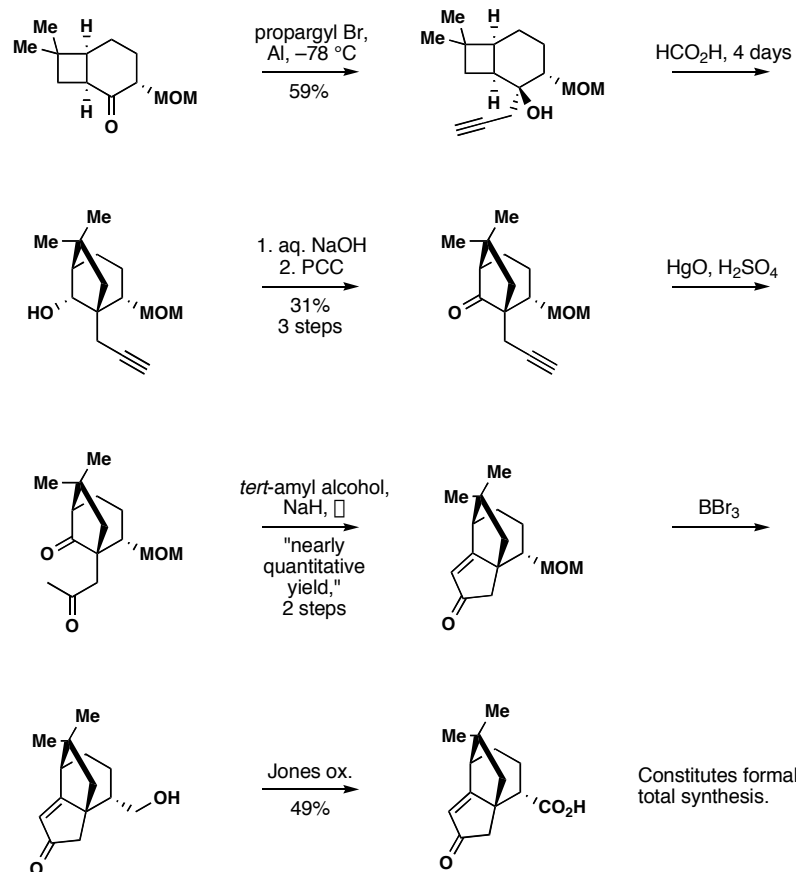
**Helquist synthesis****Burke synthesis**



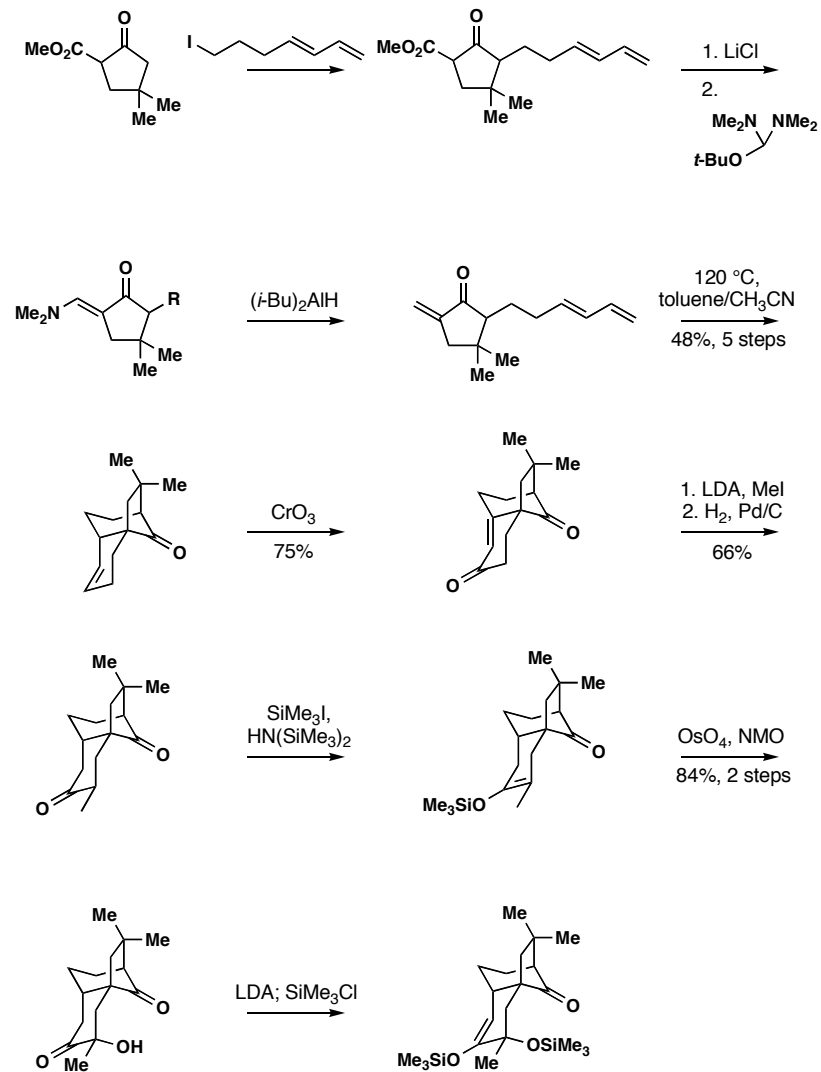
**Kende synthesis**

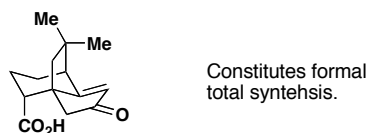
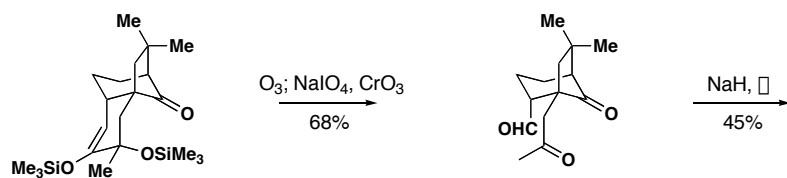
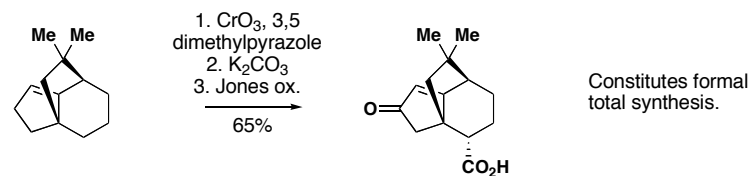
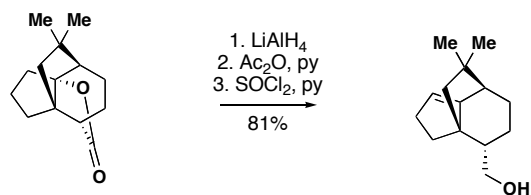
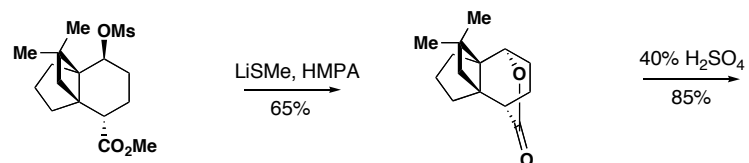
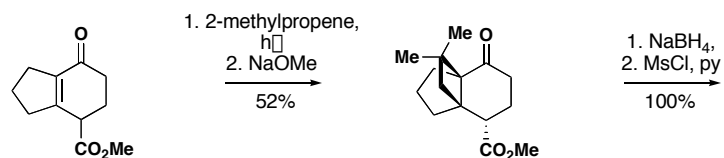
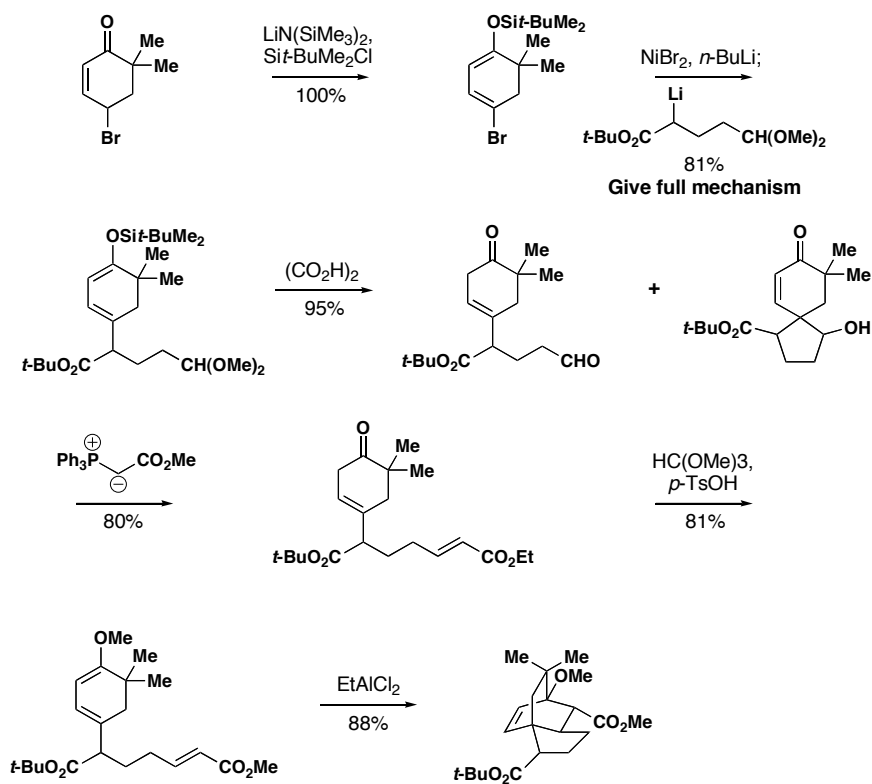


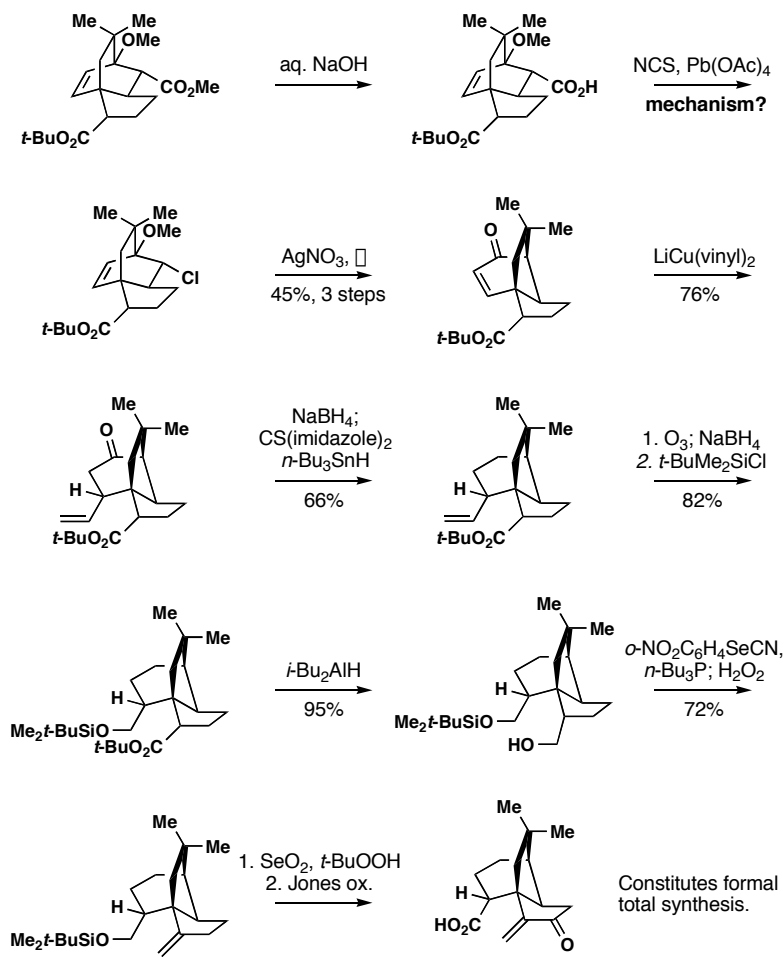
## Yoshii synthesis



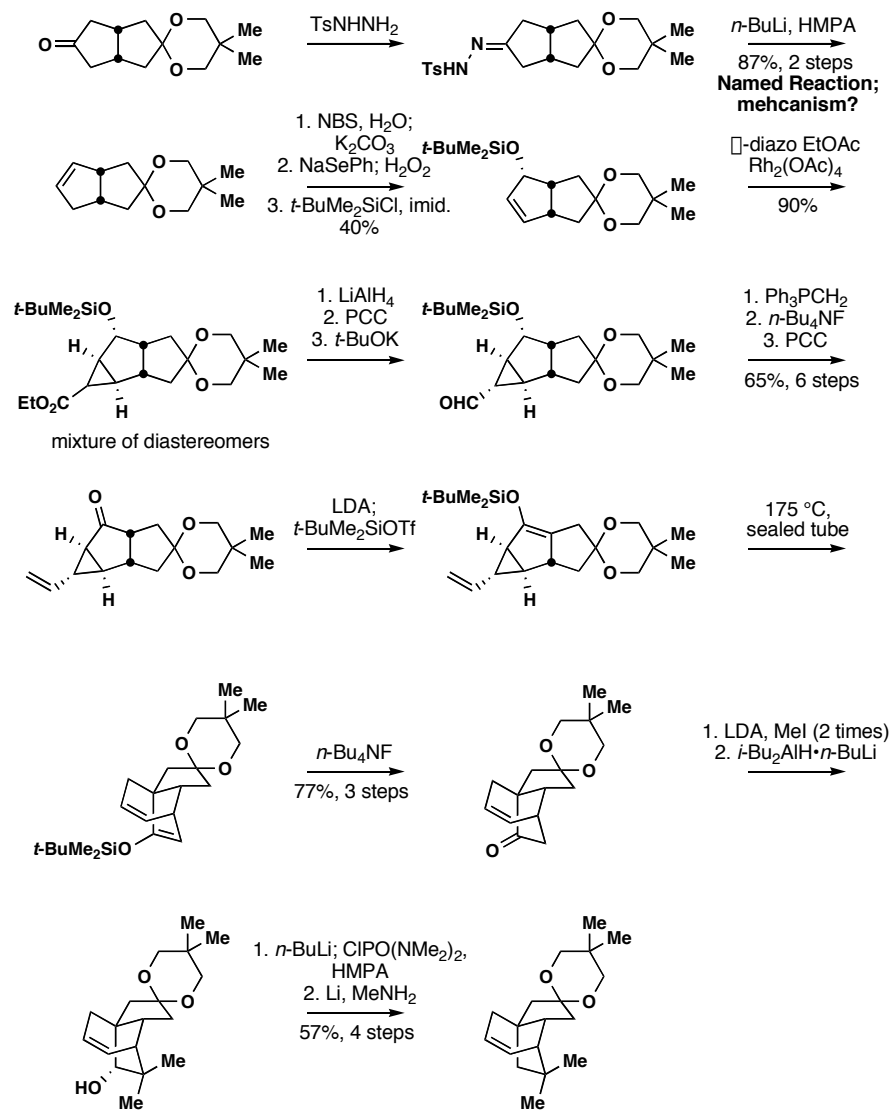
## Schlessinger synthesis

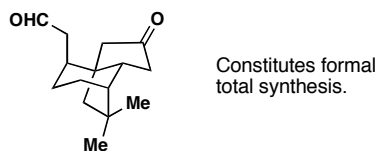
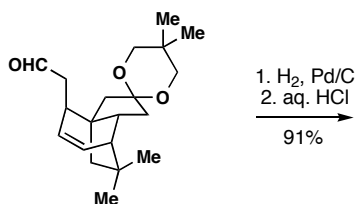
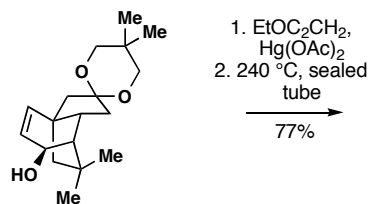
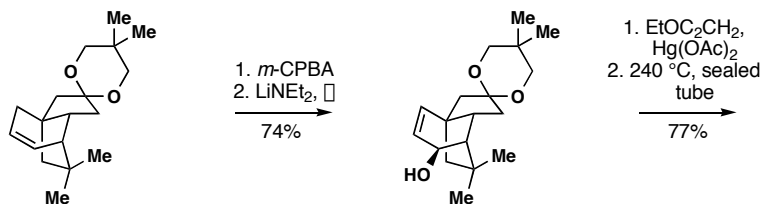


**Smith synthesis****Wender synthesis**

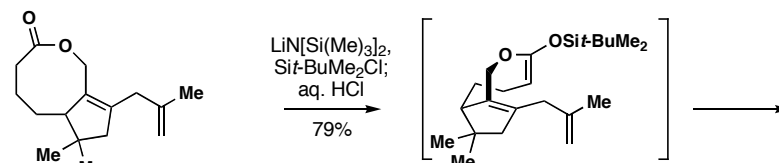
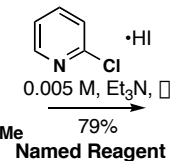
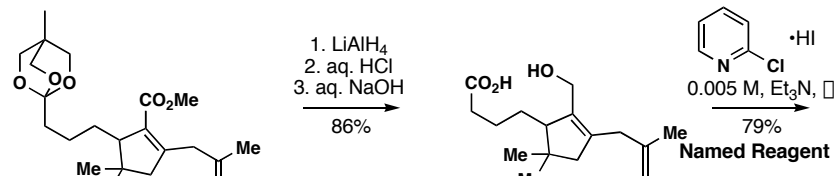
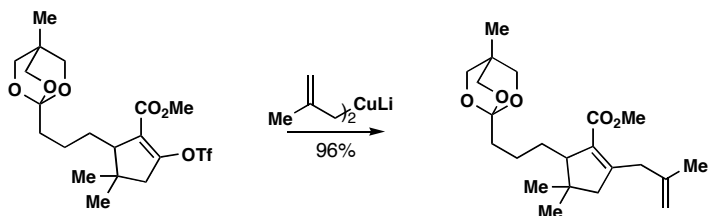
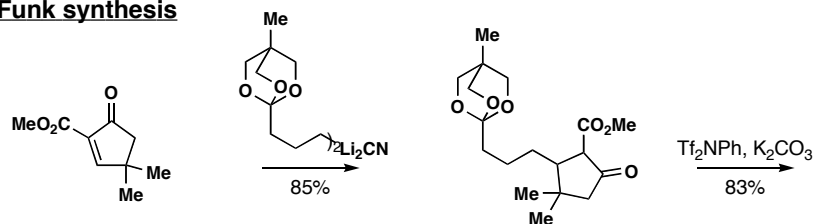


**Piers synthesis**

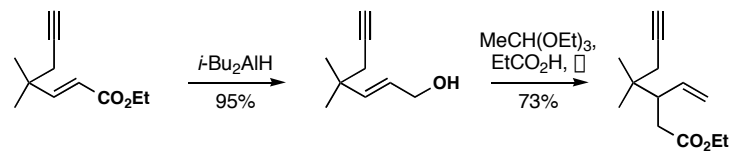
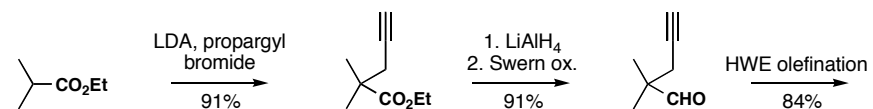


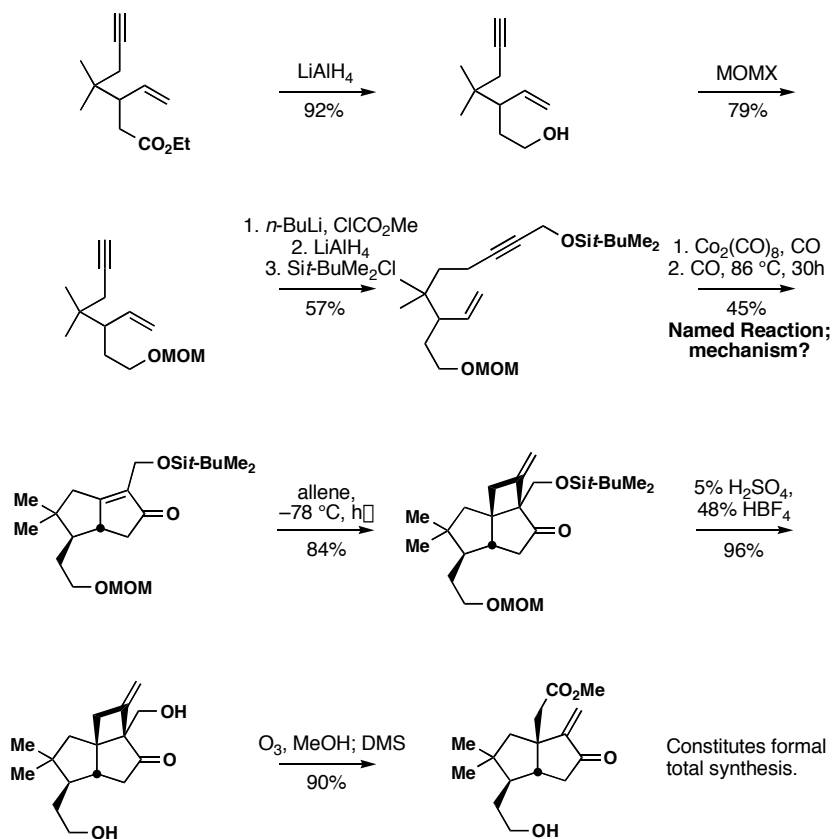


**Funk synthesis**



**Magnus synthesis**





**Little synthesis**

