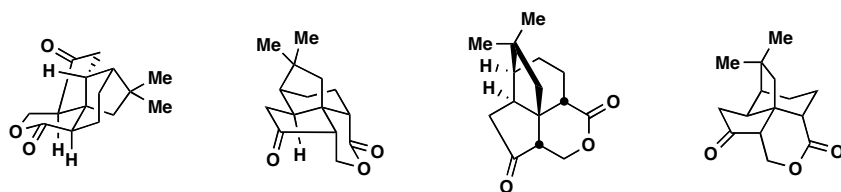


Wednesday, January 21, 2004

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 α,β epoxy ketones

Stille coupling of alkyl groups to acylpalladium species

Nickel-mediated Negishi-type coupling

Decarboxylative chlorination

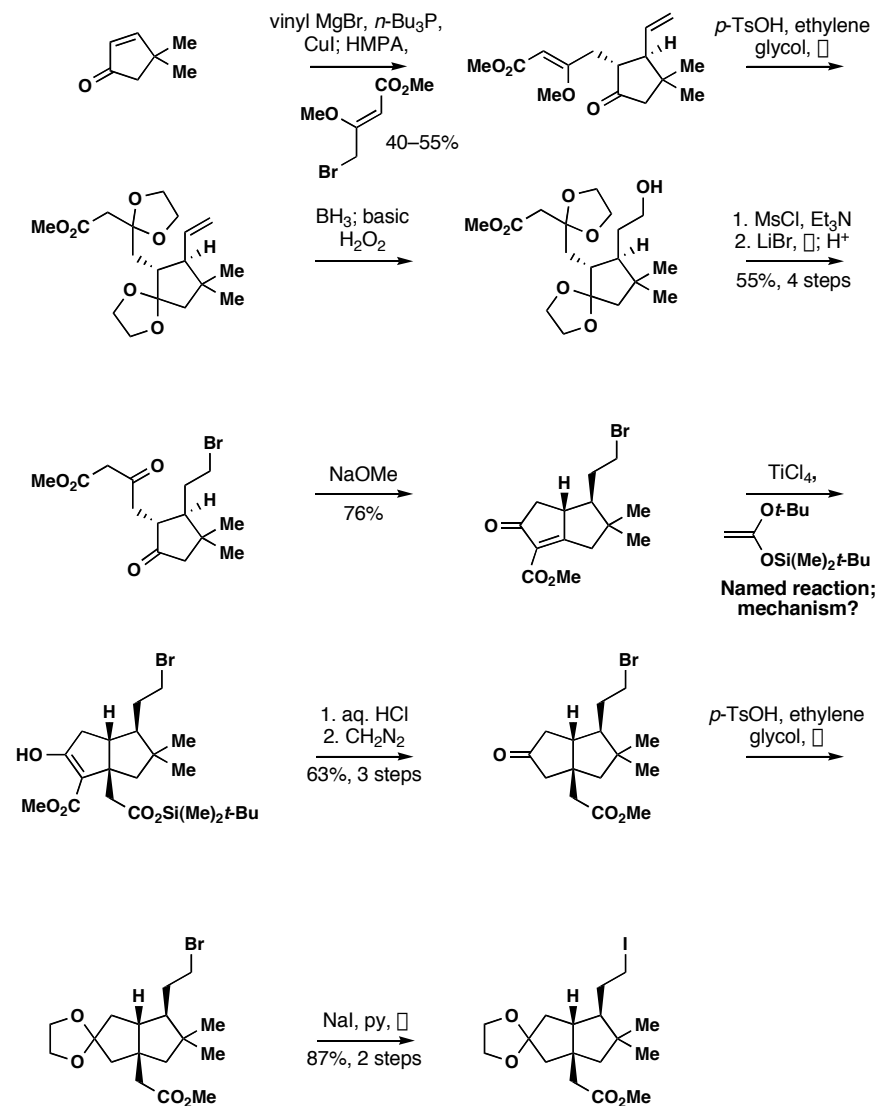
Shapiro reaction

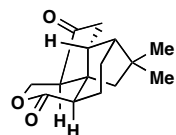
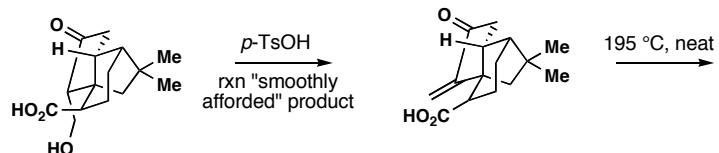
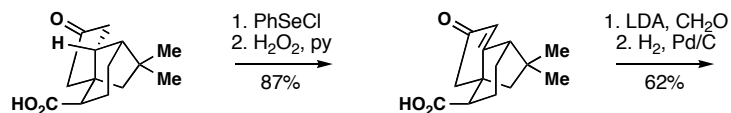
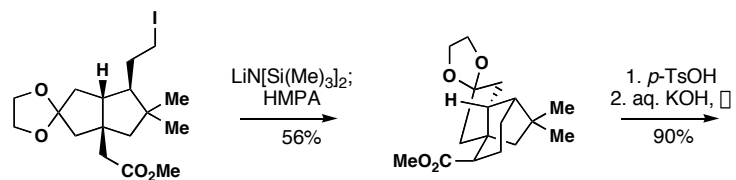
Macrolactonization using Mukaiyama's salt

Pauson-Khand reaction

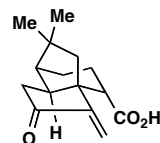
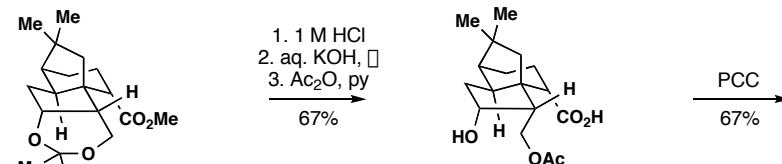
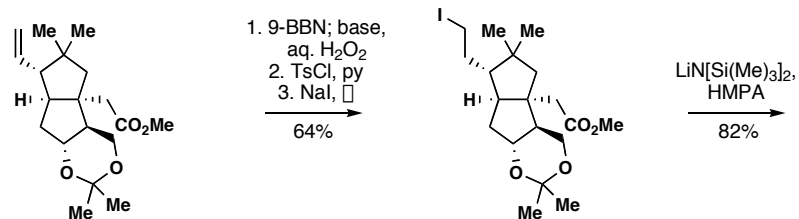
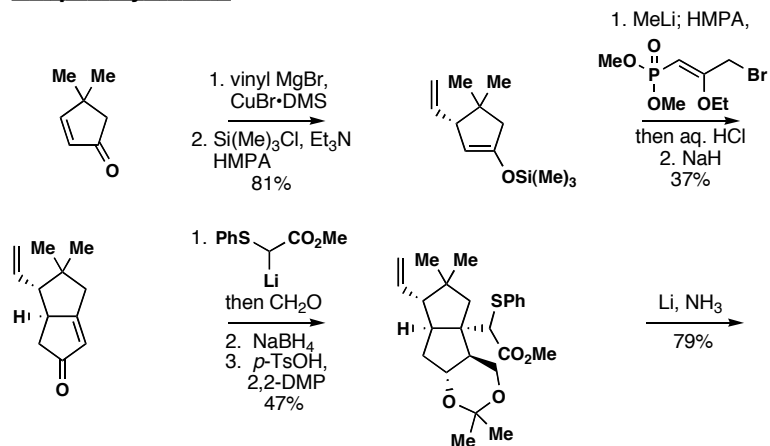
Decarboxylative radical generation

Danishefsky synthesis

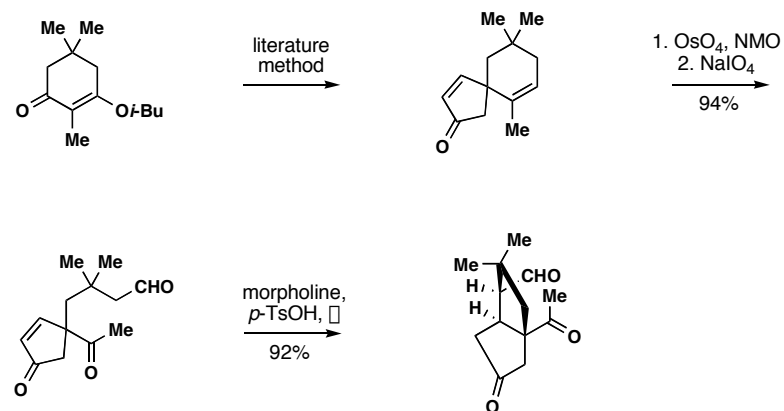




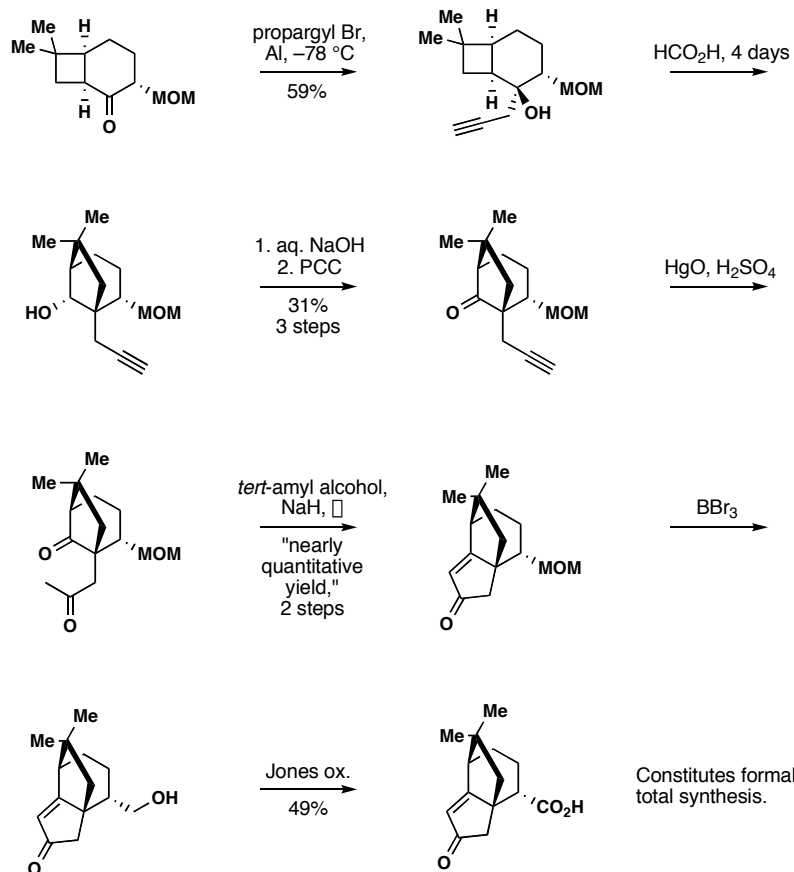
Quadrone

Helquist synthesis

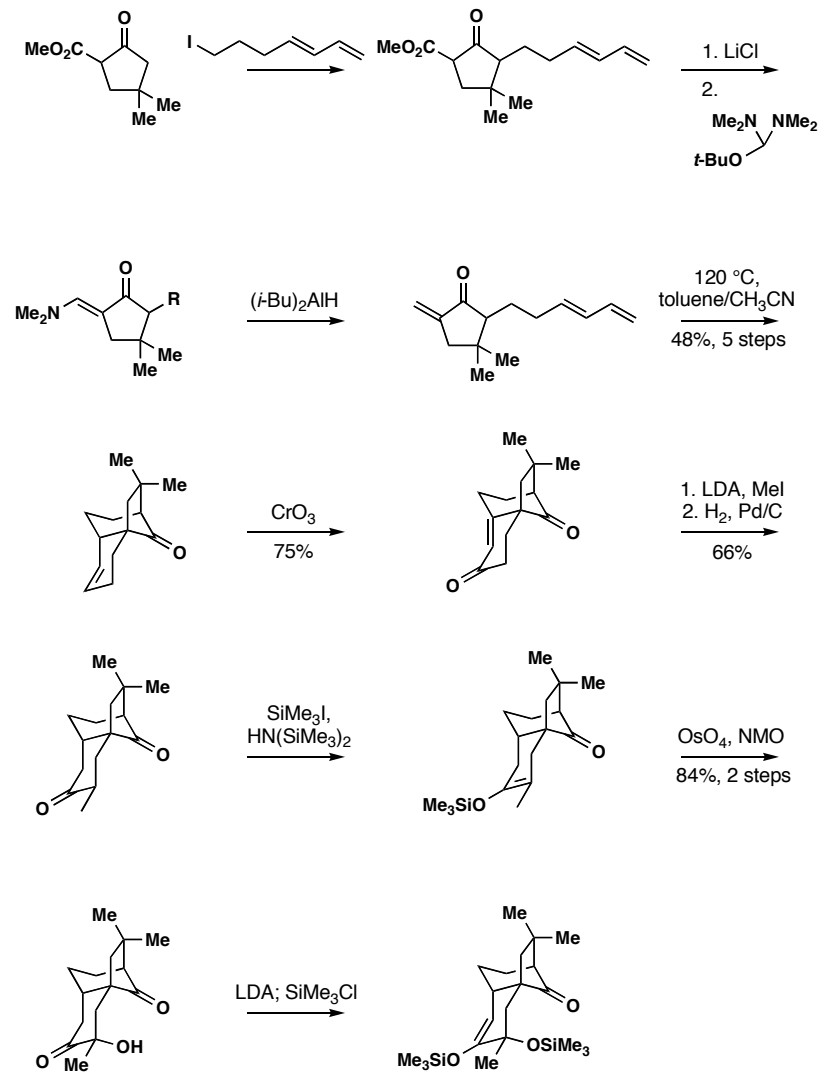
Thermolysis of this advanced intermediate gives quadrone.

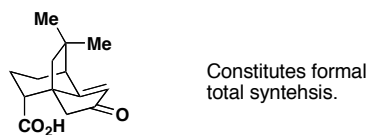
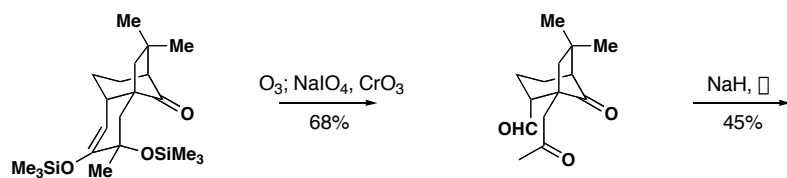
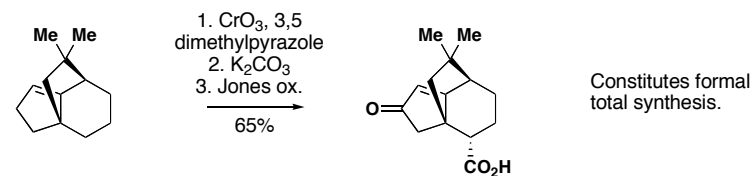
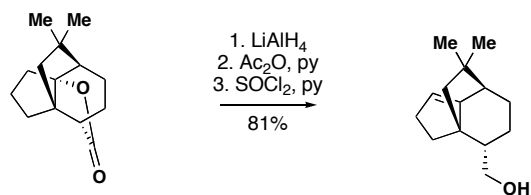
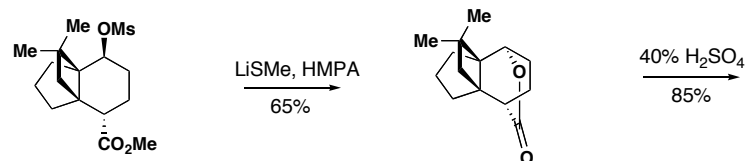
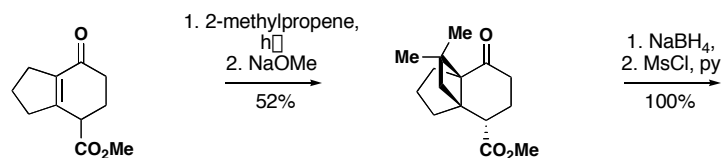
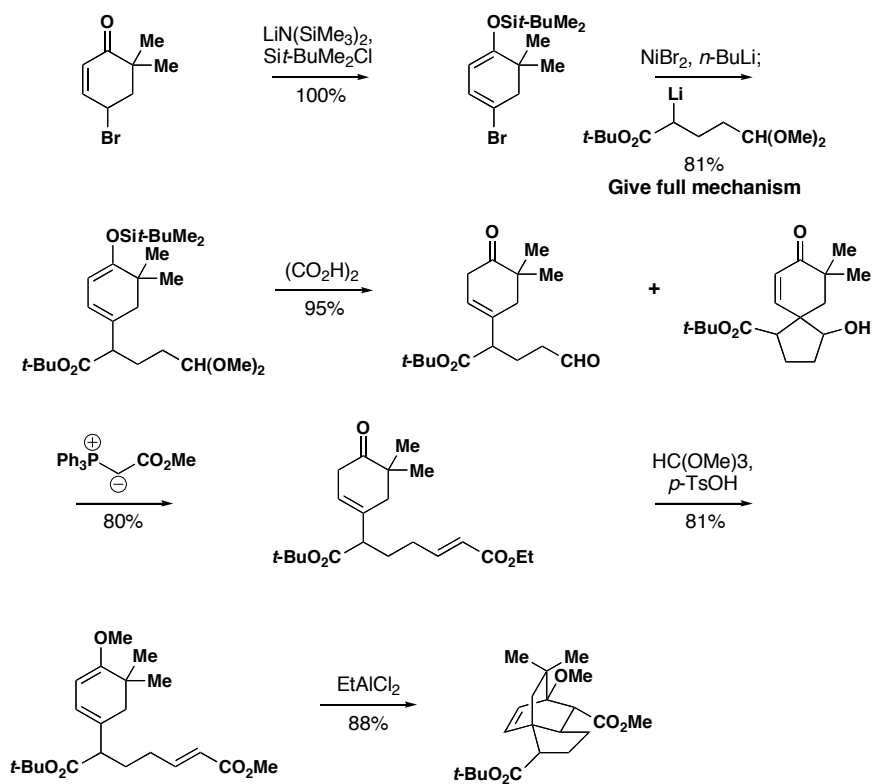
Burke synthesis

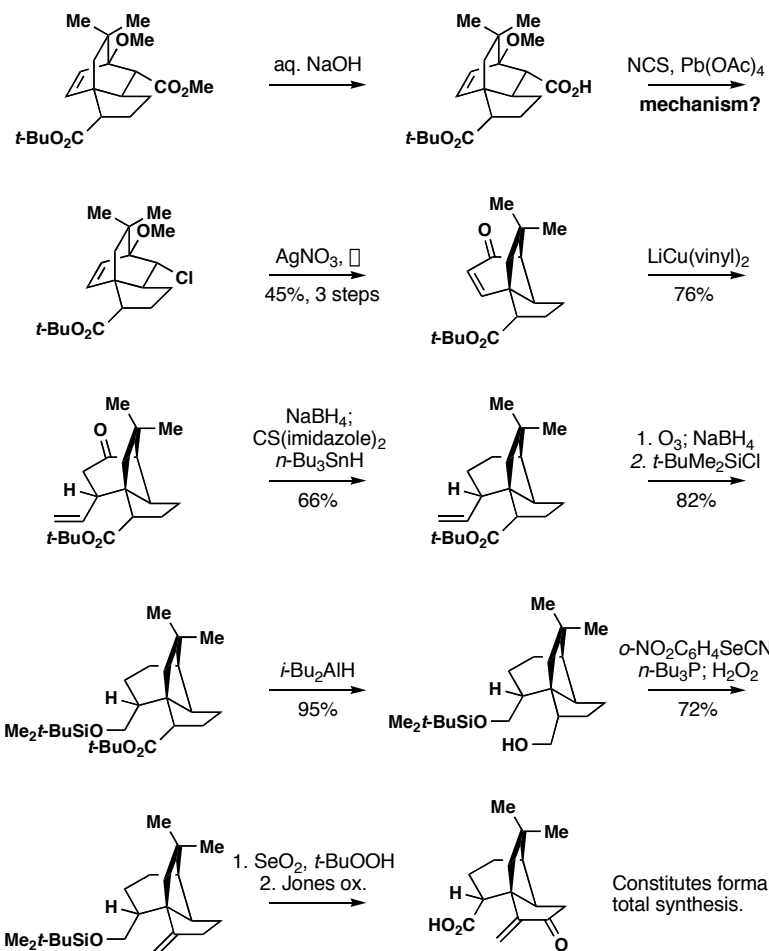
Yoshii synthesis



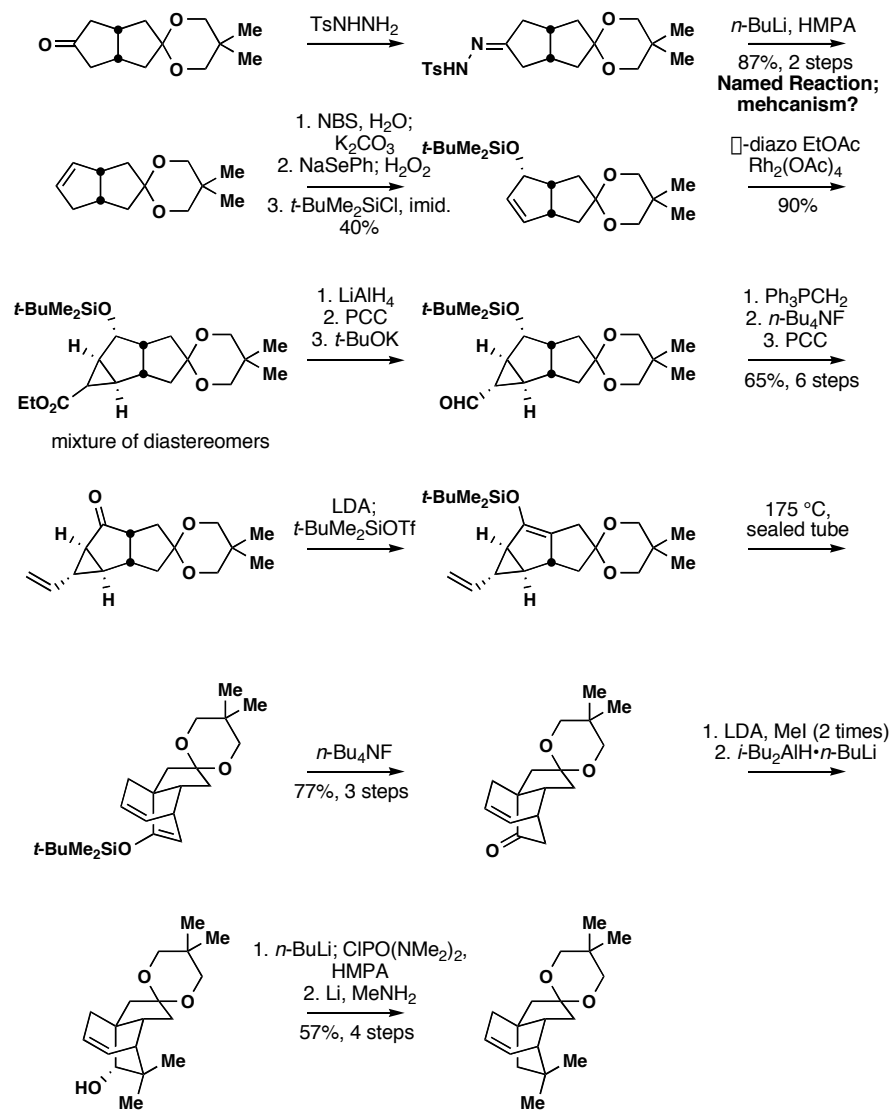
Schlessinger synthesis

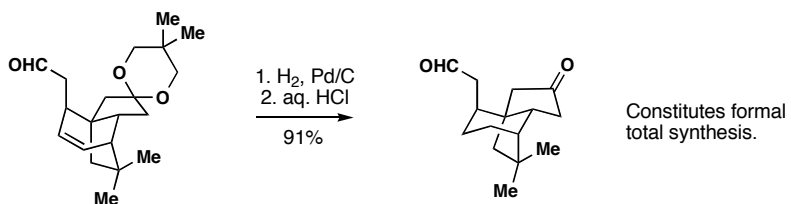
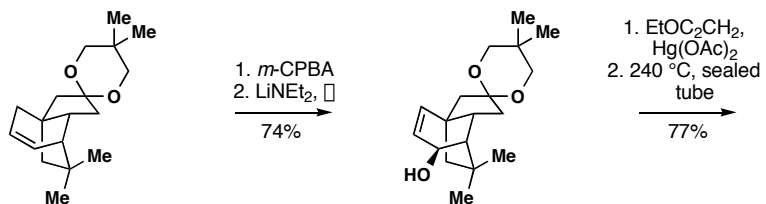
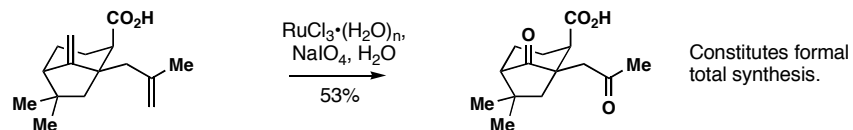
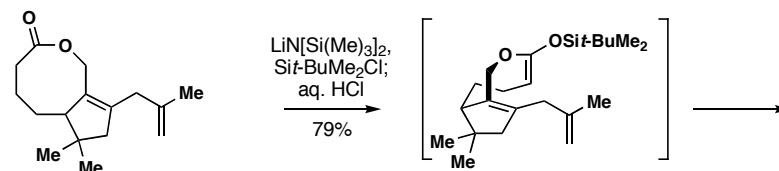
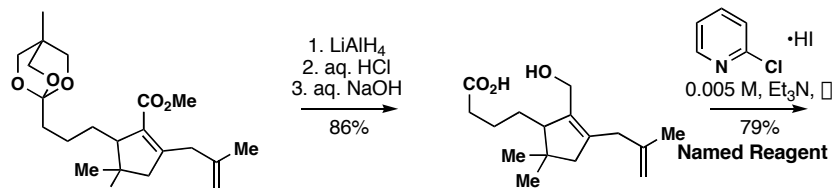
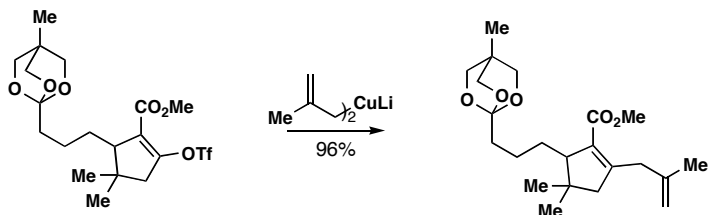
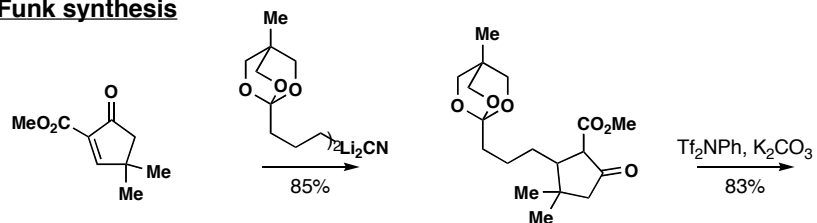
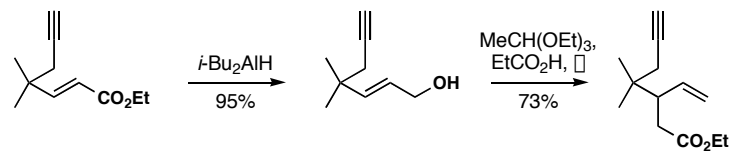
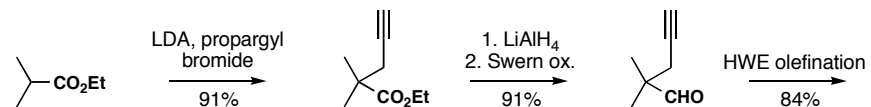


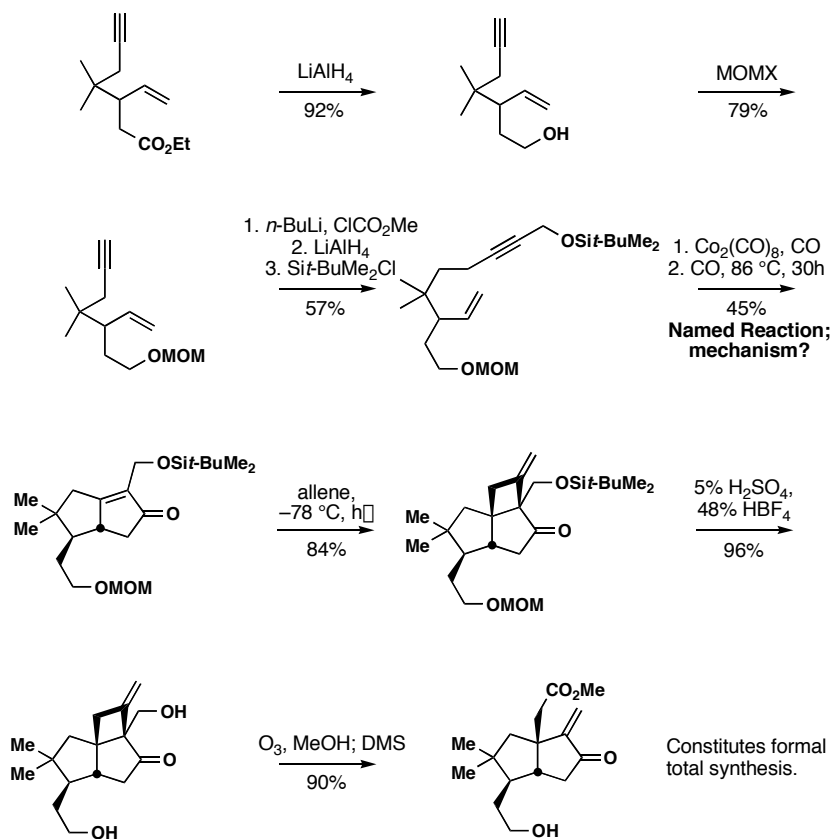
**Smith synthesis****Wender synthesis**



Piers synthesis



**Funk synthesis****Magnus synthesis**



Little synthesis

