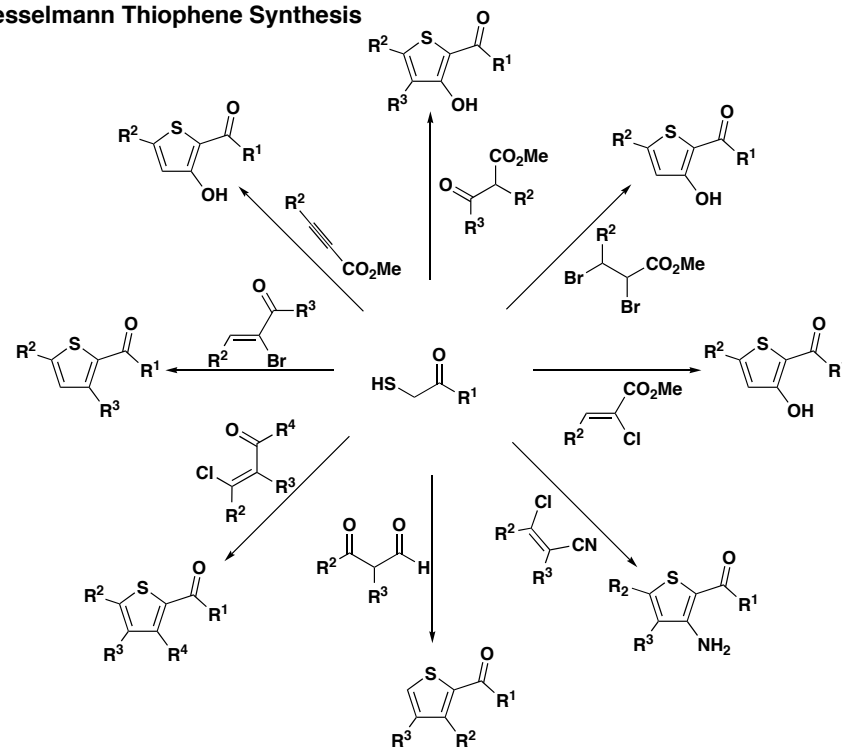
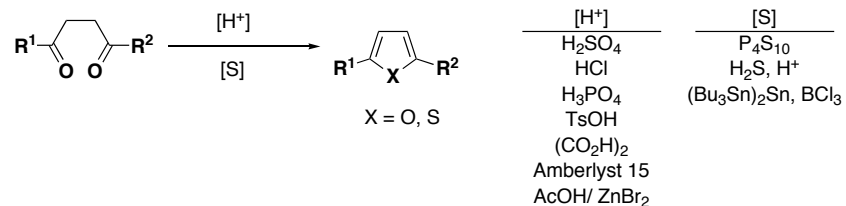


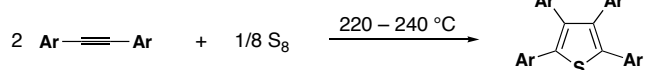
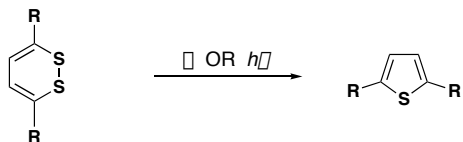
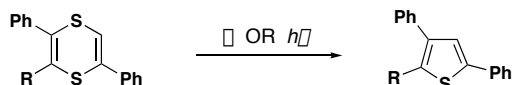
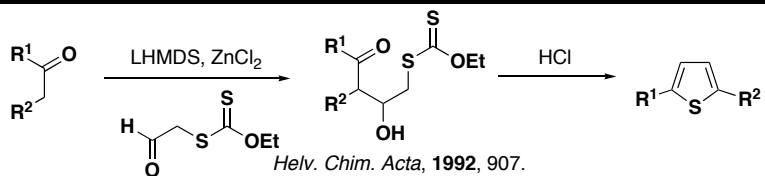
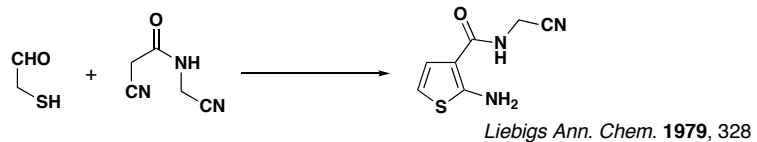
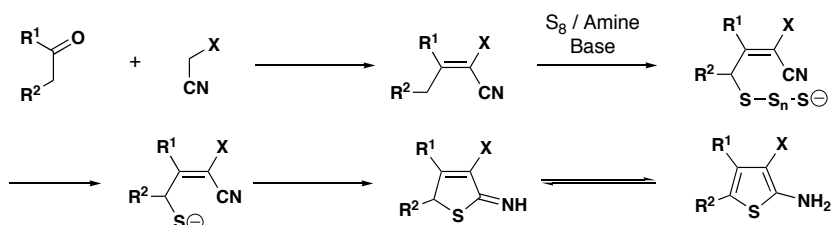
Fiesselman Thiophene Synthesis



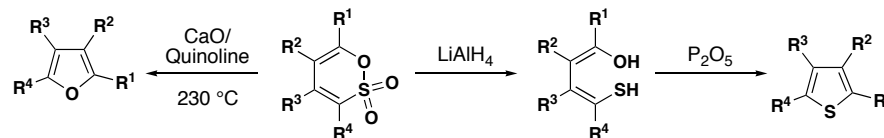
## Paal-Knorr



## Gewald Aminothiophene Synthesis

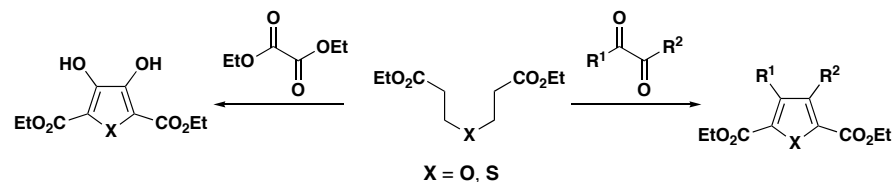


*Sulfur Letters*, **1993**, 273.

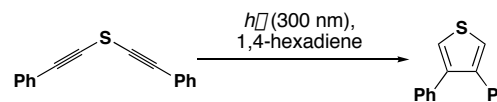
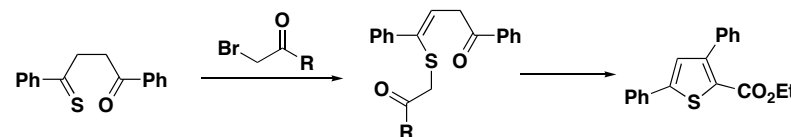


*Recl. Trav. Chim. Pays-Bas* **1951**, 35.

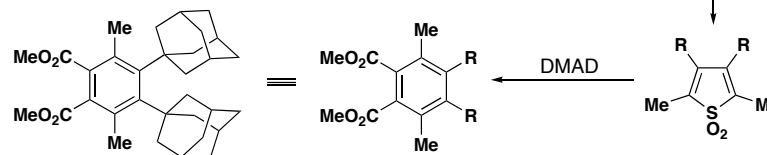
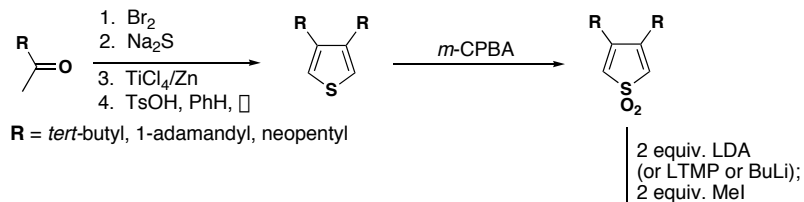
*Liebigs Ann.* **1960**, 120.



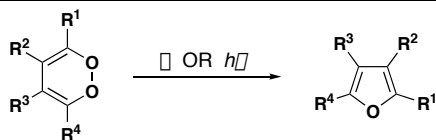
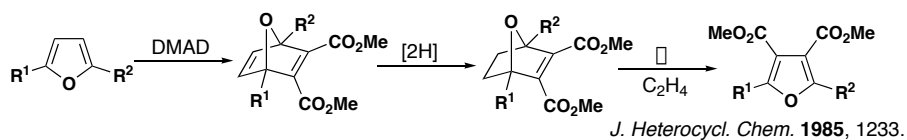
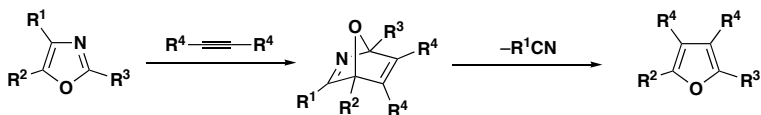
*J. Heterocycl. Chem.* **1979**, 1147; *Recl. Trav. Chim. Pays-Bas* **1940**, 423



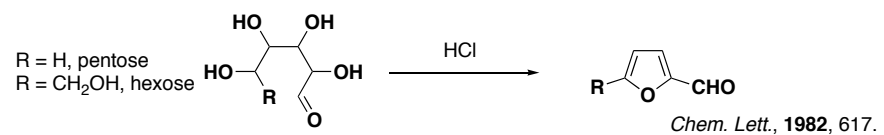
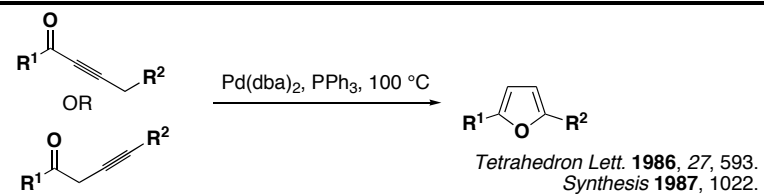
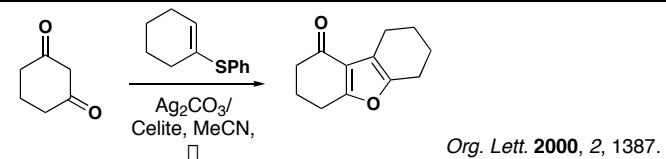
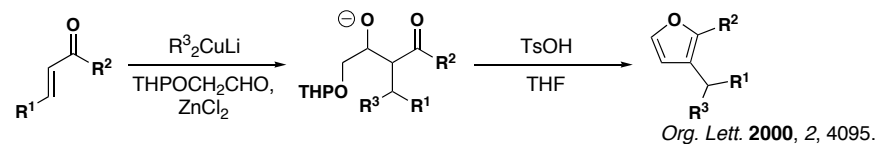
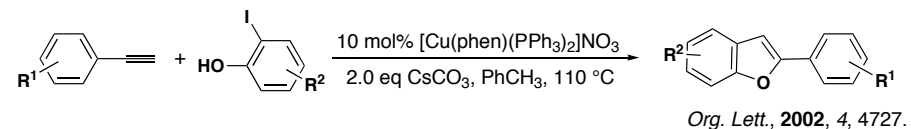
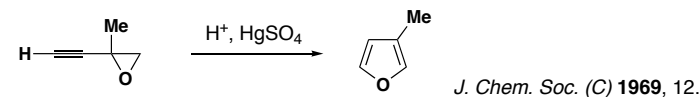
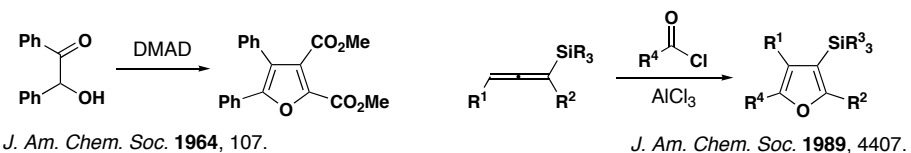
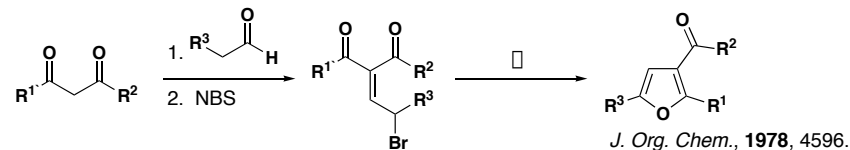
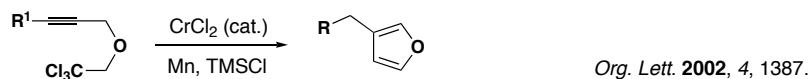
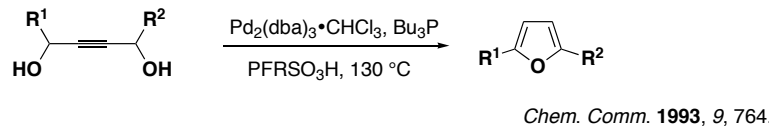
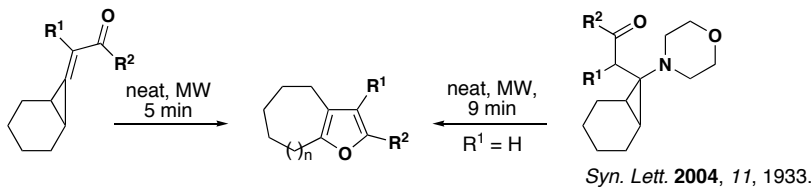
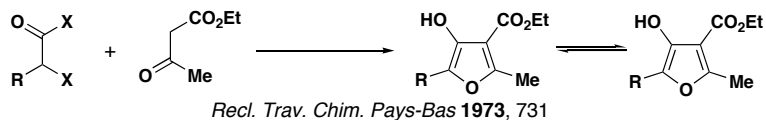
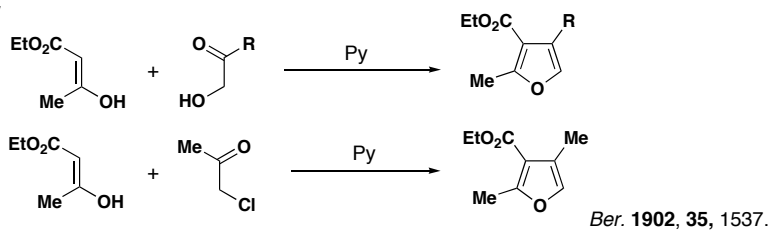
*Org. Lett.* **2003**, 5, 2195.

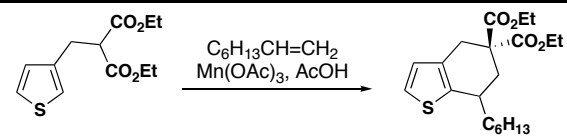
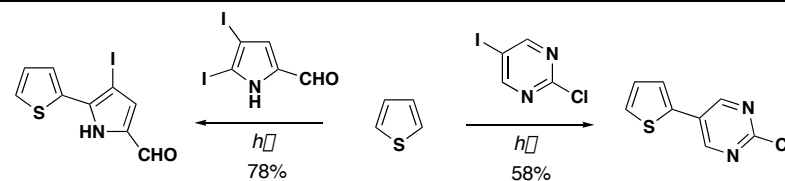
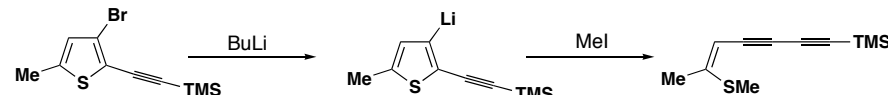
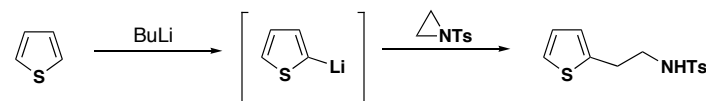
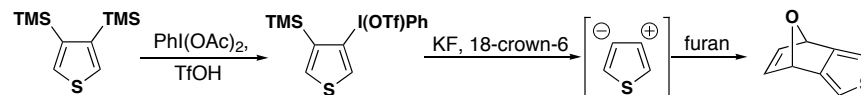
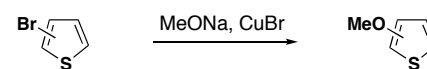
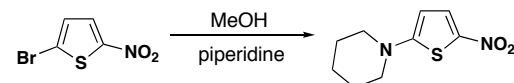
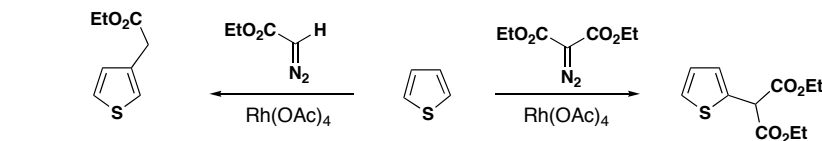
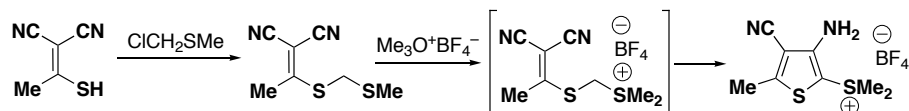
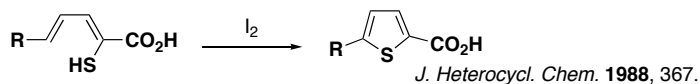
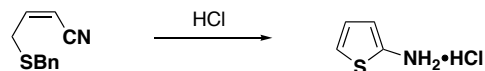


*J. Org. Chem.* **1998**, 63, 4912.

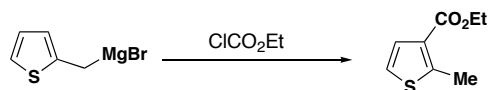
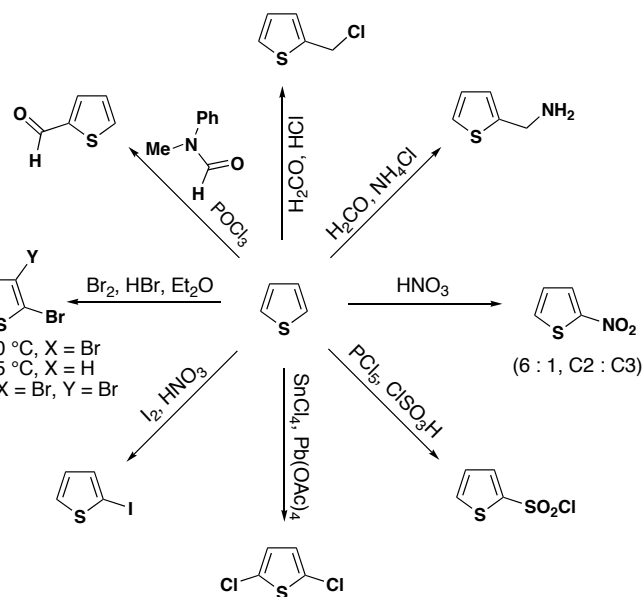
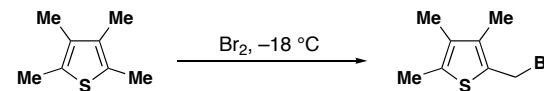


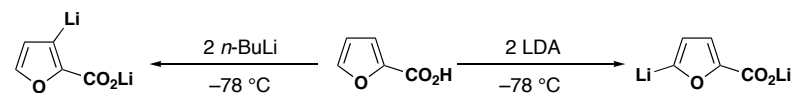
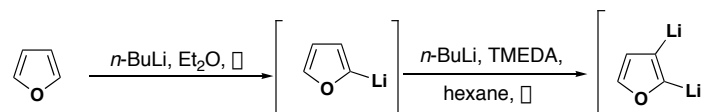
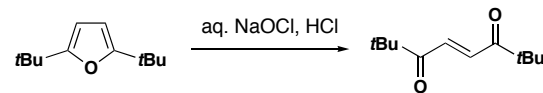
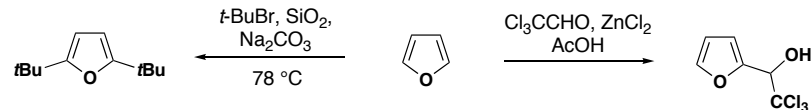
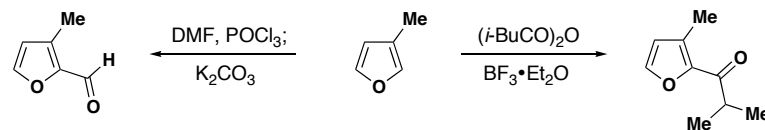
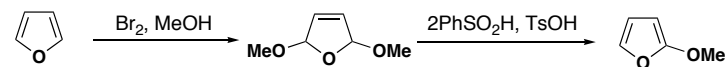
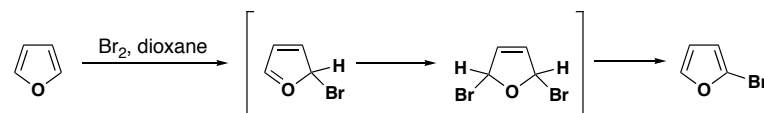
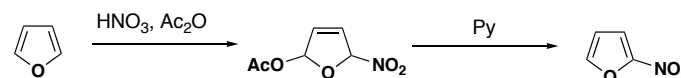
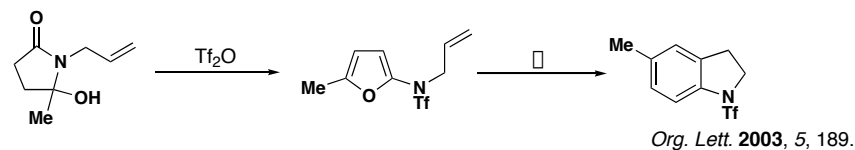
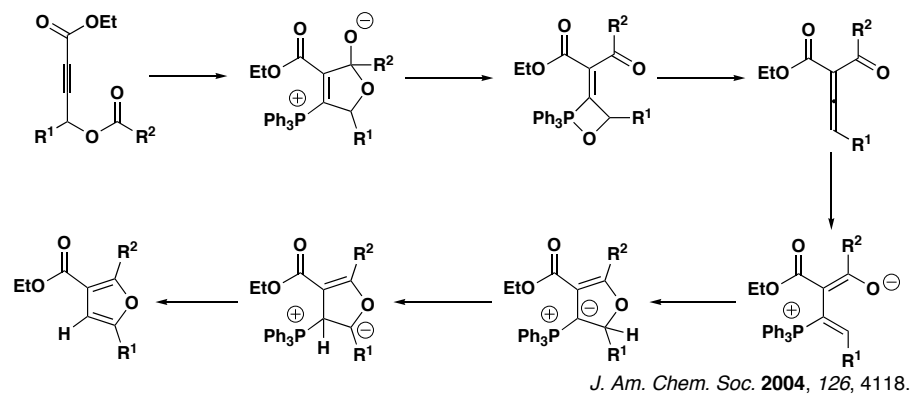
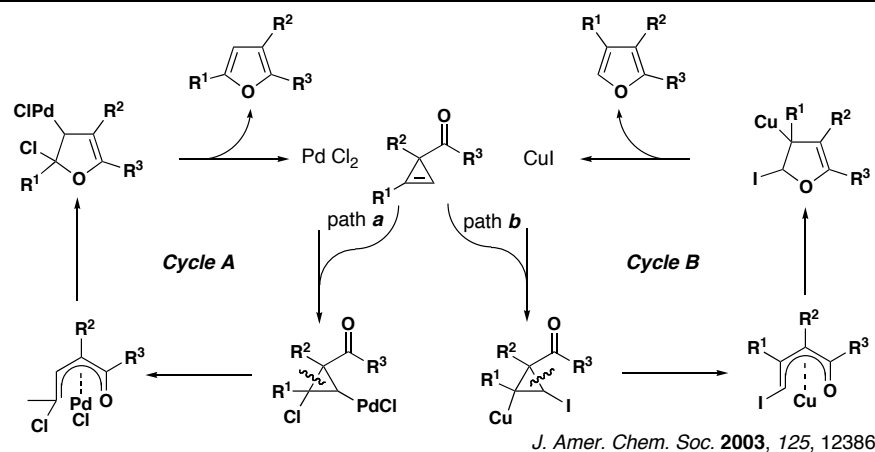
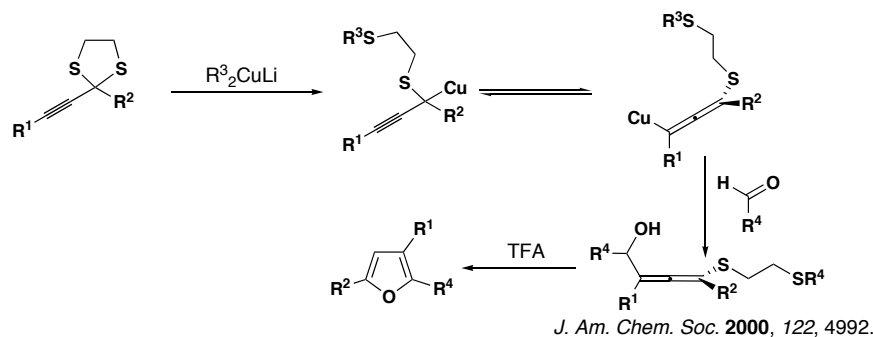
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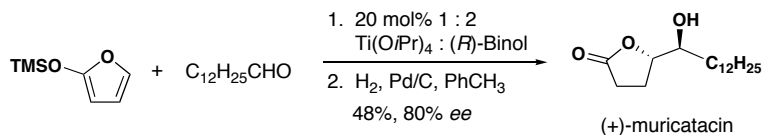




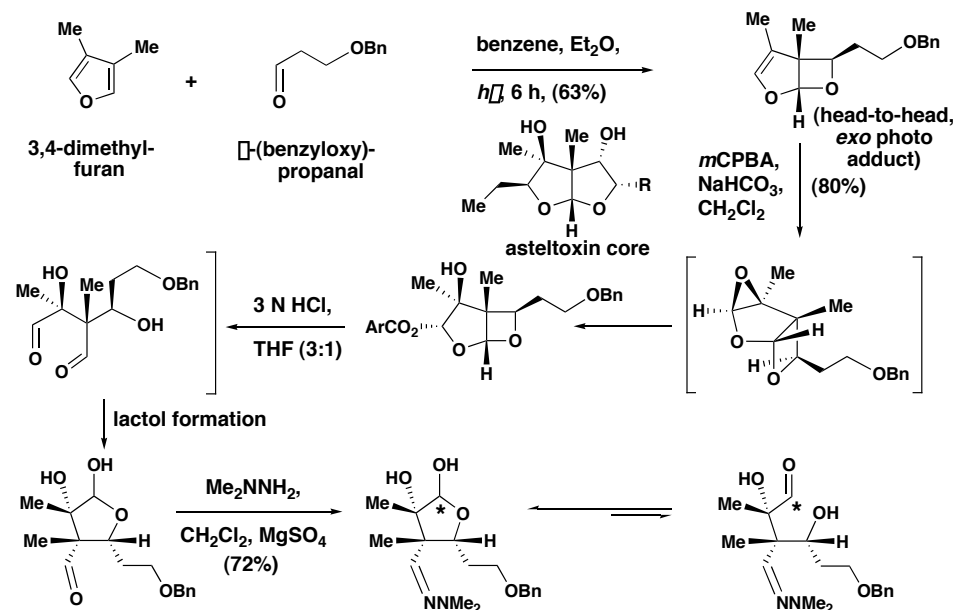
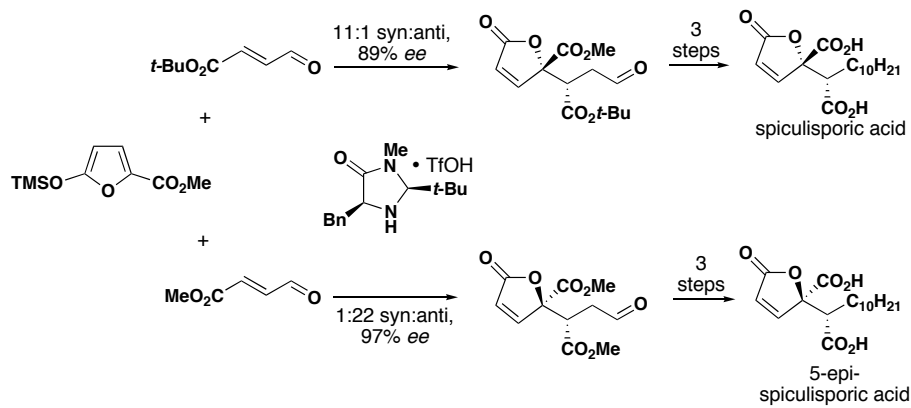
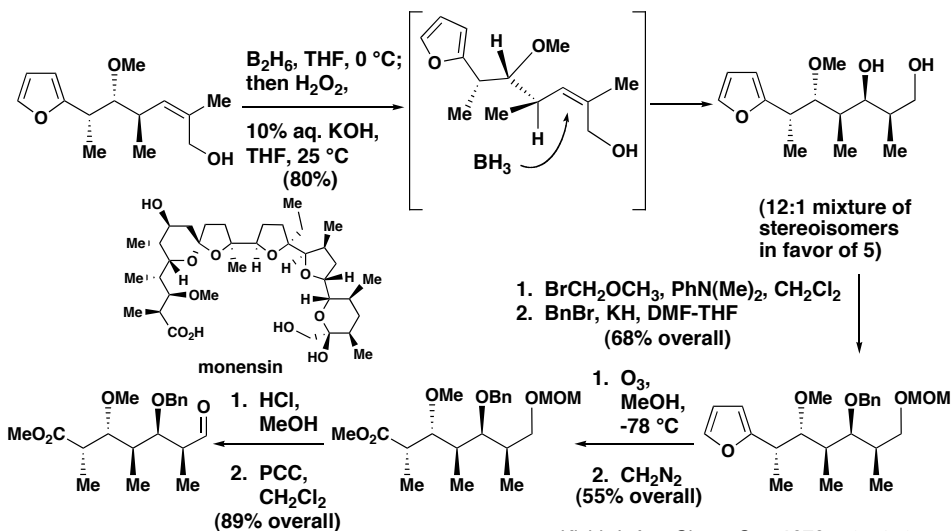
Modern techniques involve Suzuki, Heck, Stille, Kumada couplings



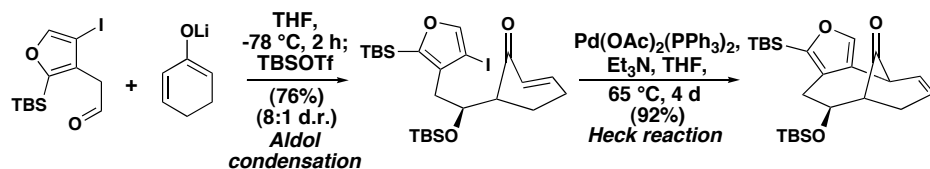




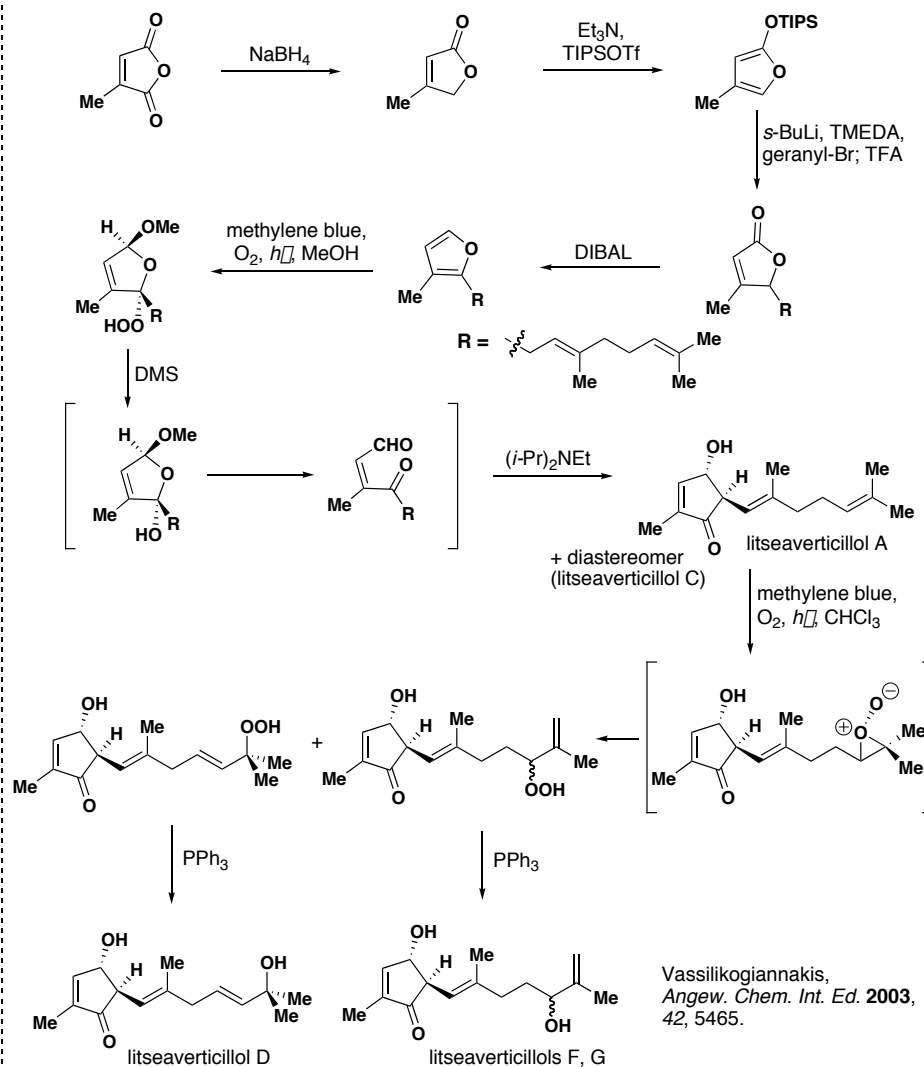
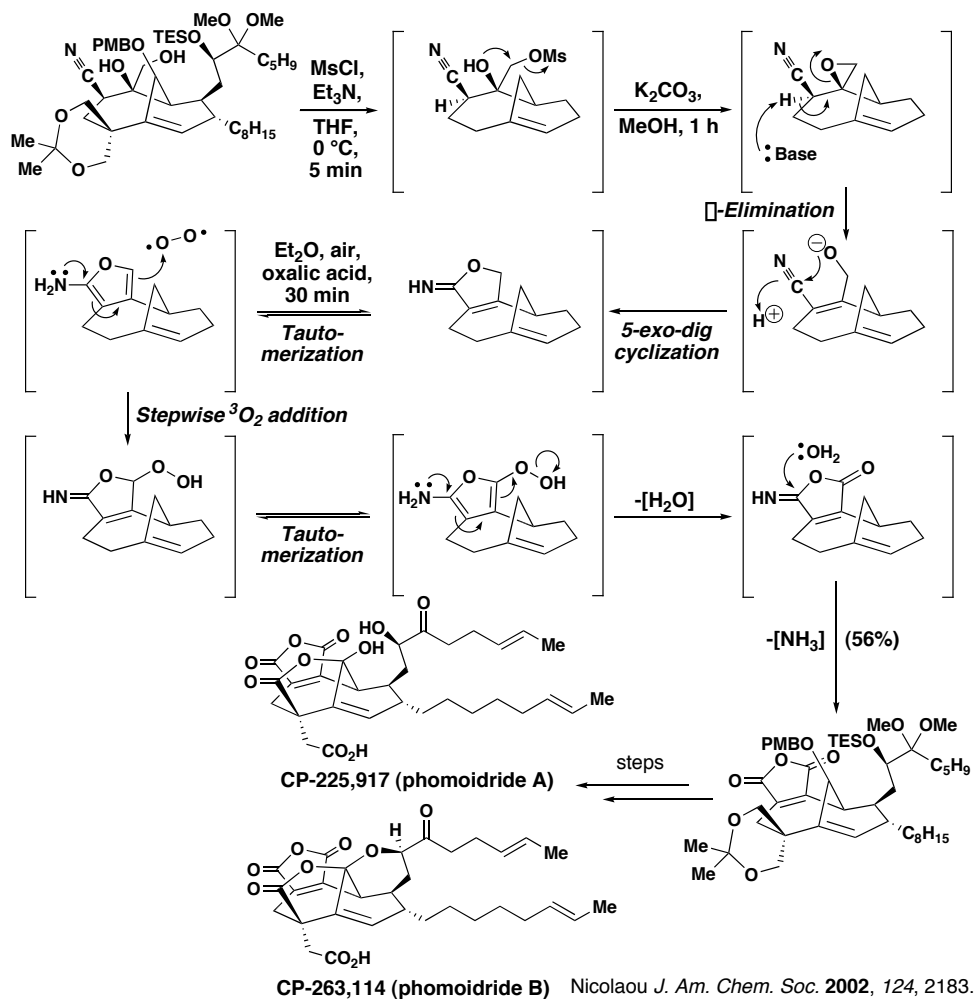
Figadere *J. Org. Chem.* **1998**, *63*, 5169.

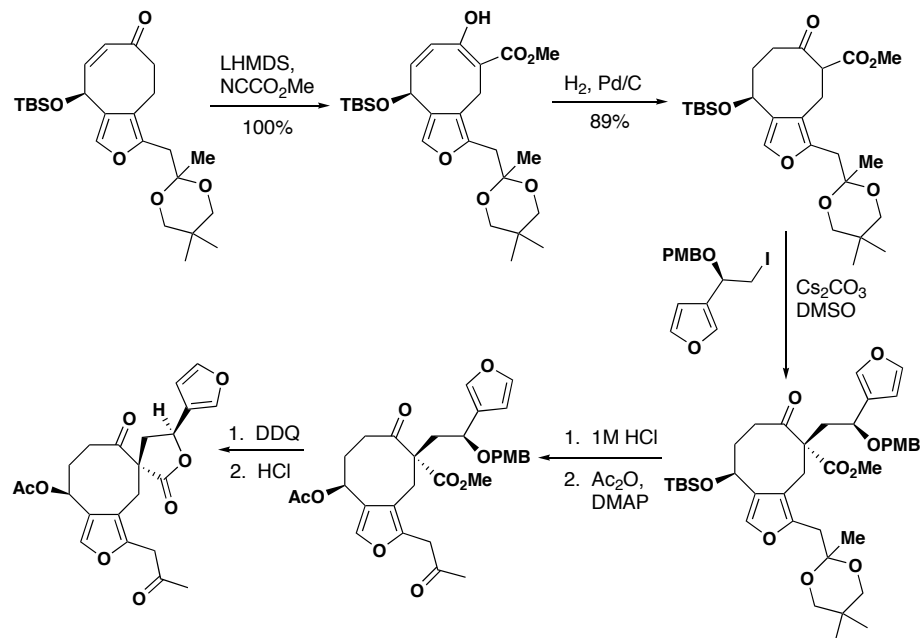
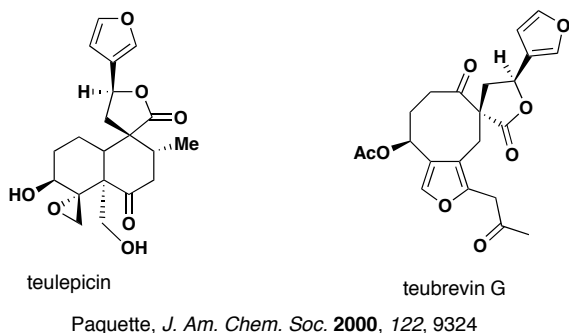


Schreiber *J. Am. Chem. Soc.* **1983**, *105*, 6723.



Danishefsky *Angew. Chem.* **2000**, *112*, 4683.





Moeller *J. Am. Chem. Soc.* **2003**, *125*, 36

