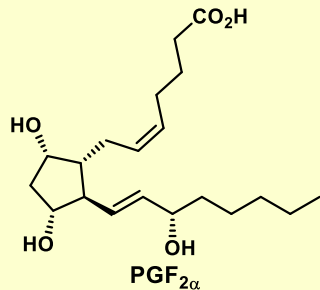
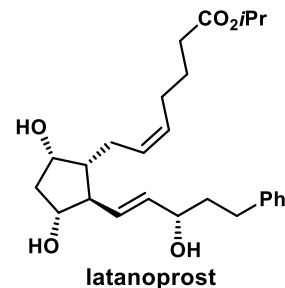


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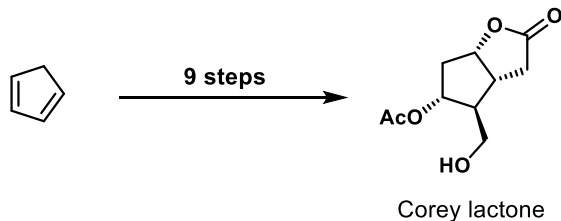
– Prostaglandins implicated in controlling pain, fever, inflammation, menstruation, birth, vasoconstriction, blood clotting, and more

– Discovery: "Information on the pharmacological effect of natural secretions and extracts from male accessory sexual glands" by Von Euler in 1934.

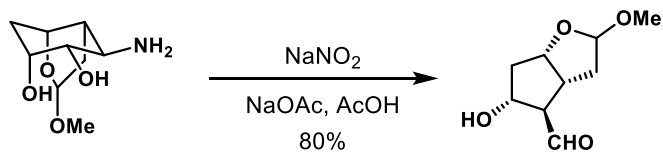


– Glaucoma treatment  
– \$1.75 billion in 2010  
– 20 step synthesis using Corey's sequence for  $PGF_{2\alpha}$

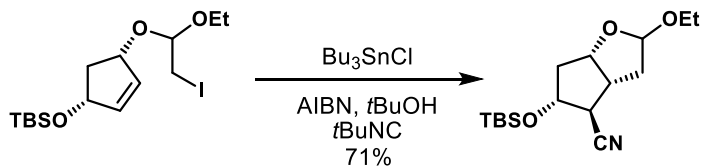
Corey 1969



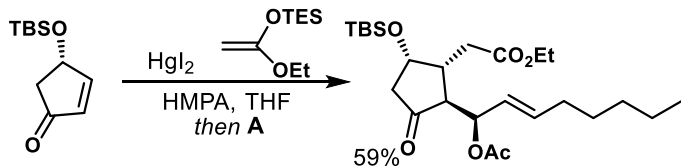
Woodward 1973



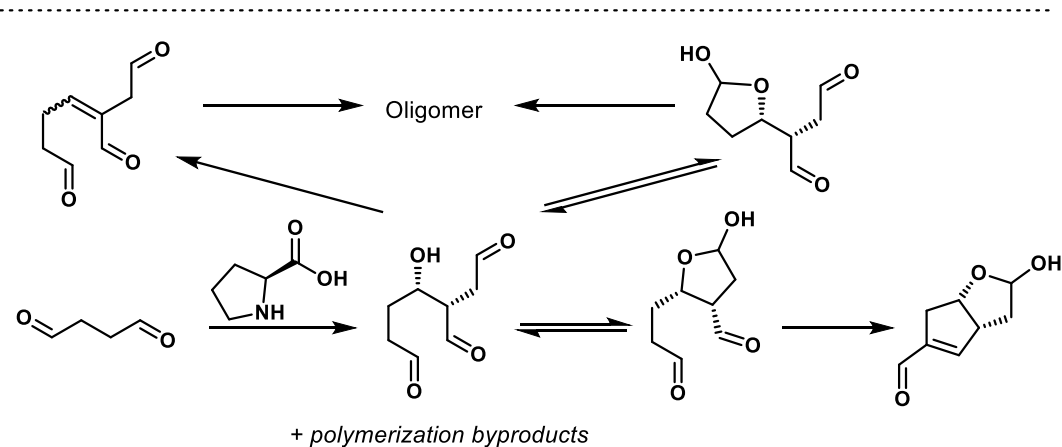
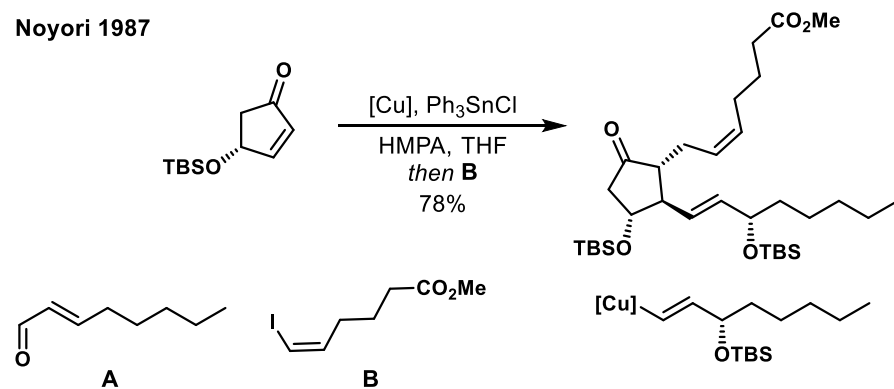
Stork 1986

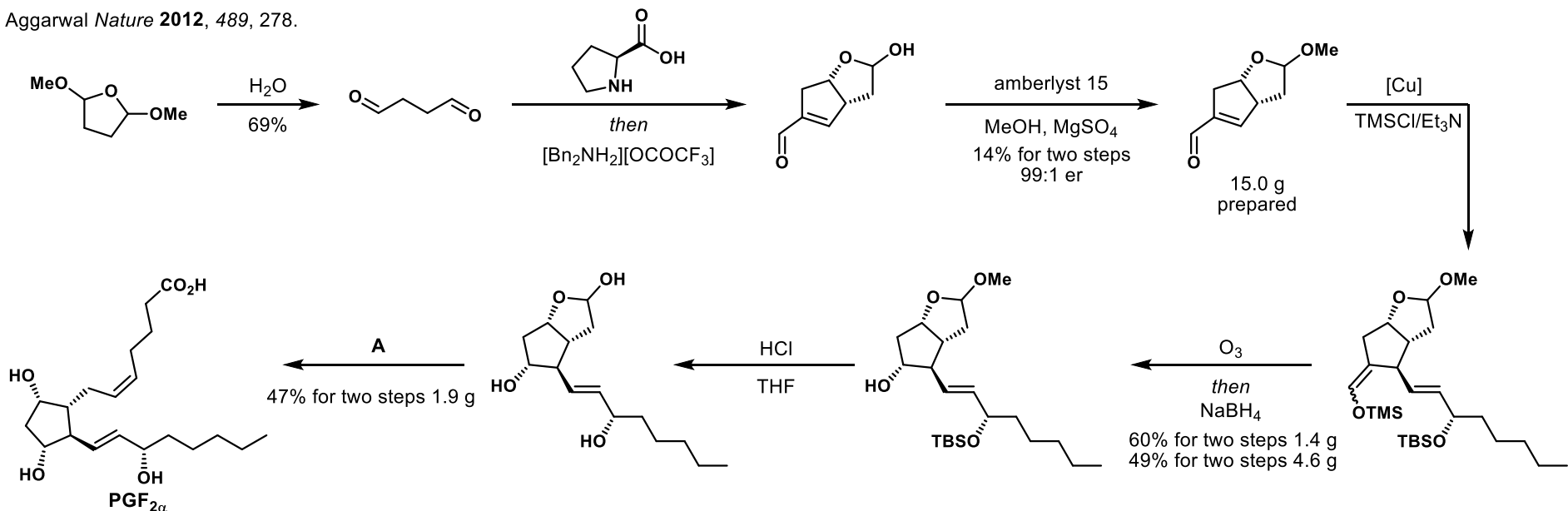


Danishefsky 1989

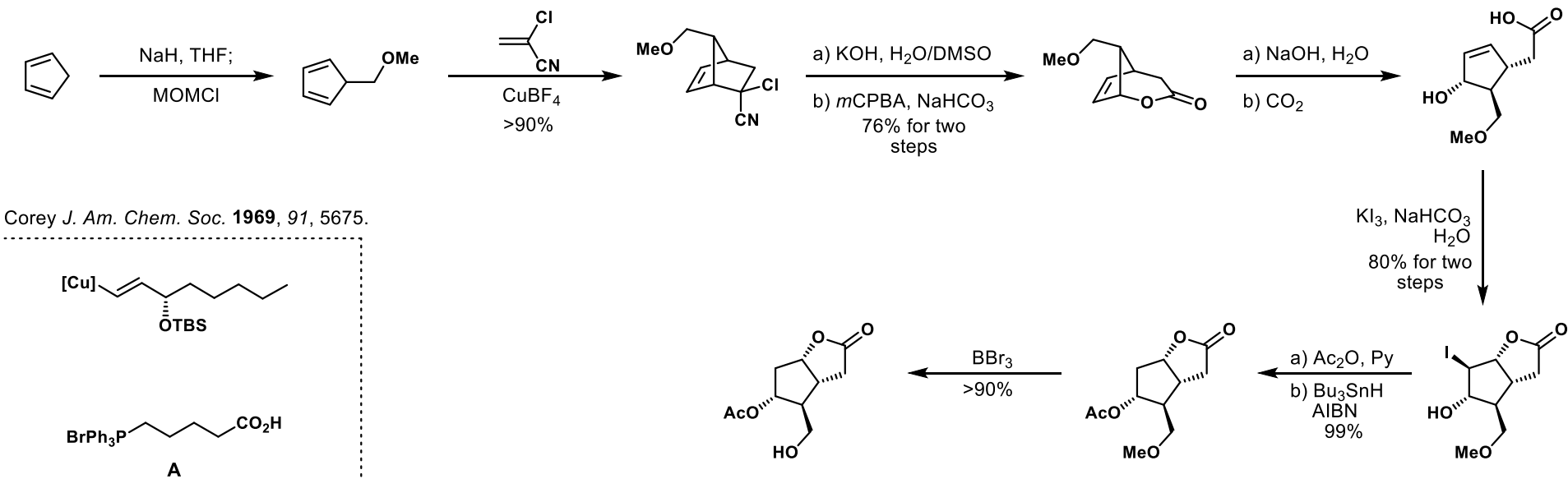


Noyori 1987



Aggarwal *Nature* **2012**, 489, 278.

## Pre-Order Bonus Content: Synthesis of Corey lactone

Corey *J. Am. Chem. Soc.* **1969**, 91, 5675.