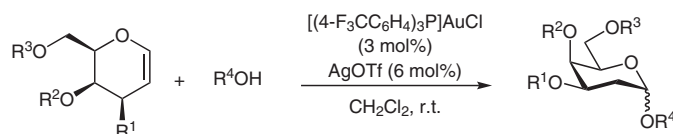
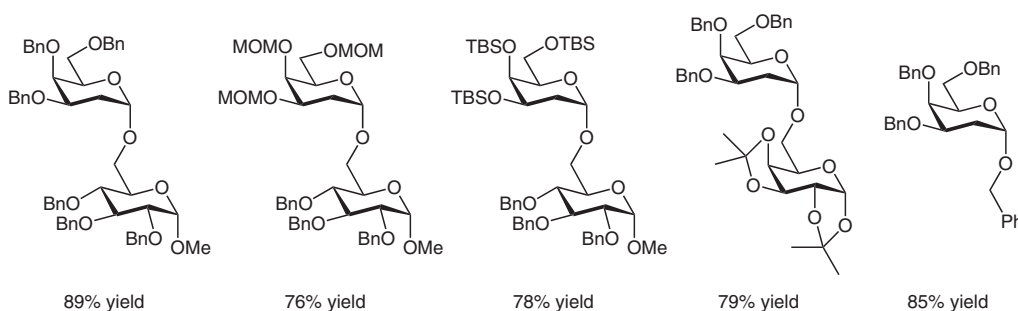


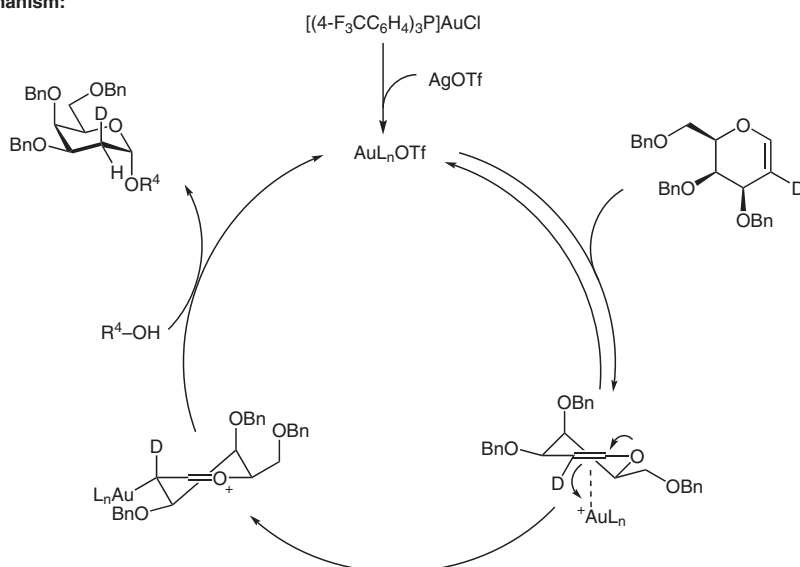
# Gold(I)-Catalyzed Stereoselective Synthesis of Deoxyglycosides



## Selected examples:



## Proposed mechanism:



**Significance:** Deoxyhexose structures can be found in a wide range of natural products. The authors have developed an  $\alpha$ -stereoselective catalytic synthesis of deoxyglycosides from glycals by using Au(I)/AgOTf.

**Comment:** The reaction can be applied to a broad range of glycals and alcohols to give  $\alpha$ -deoxyglycosides in high yields and with excellent selectivity. The utility of the reaction was demonstrated by the synthesis of oligosaccharides through the coupling reaction followed by deprotection.