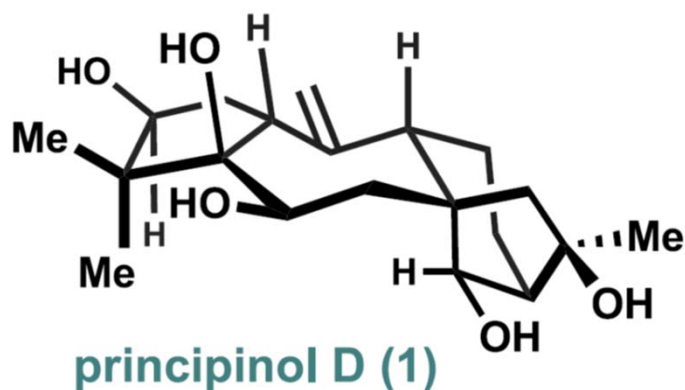
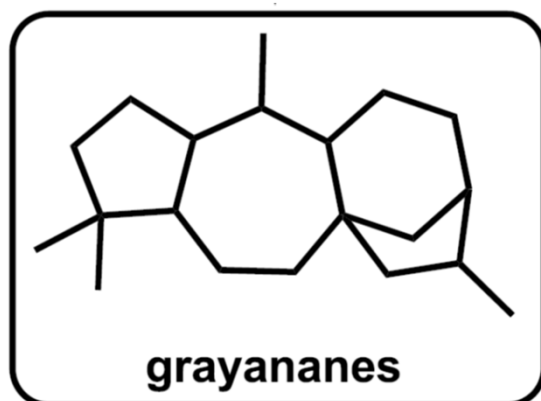


Convergent Total Synthesis of Principinol D, a Rearranged Kaurane Diterpenoid

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S Supporting Information



B. Retrosynthetic analysis: convergent approach

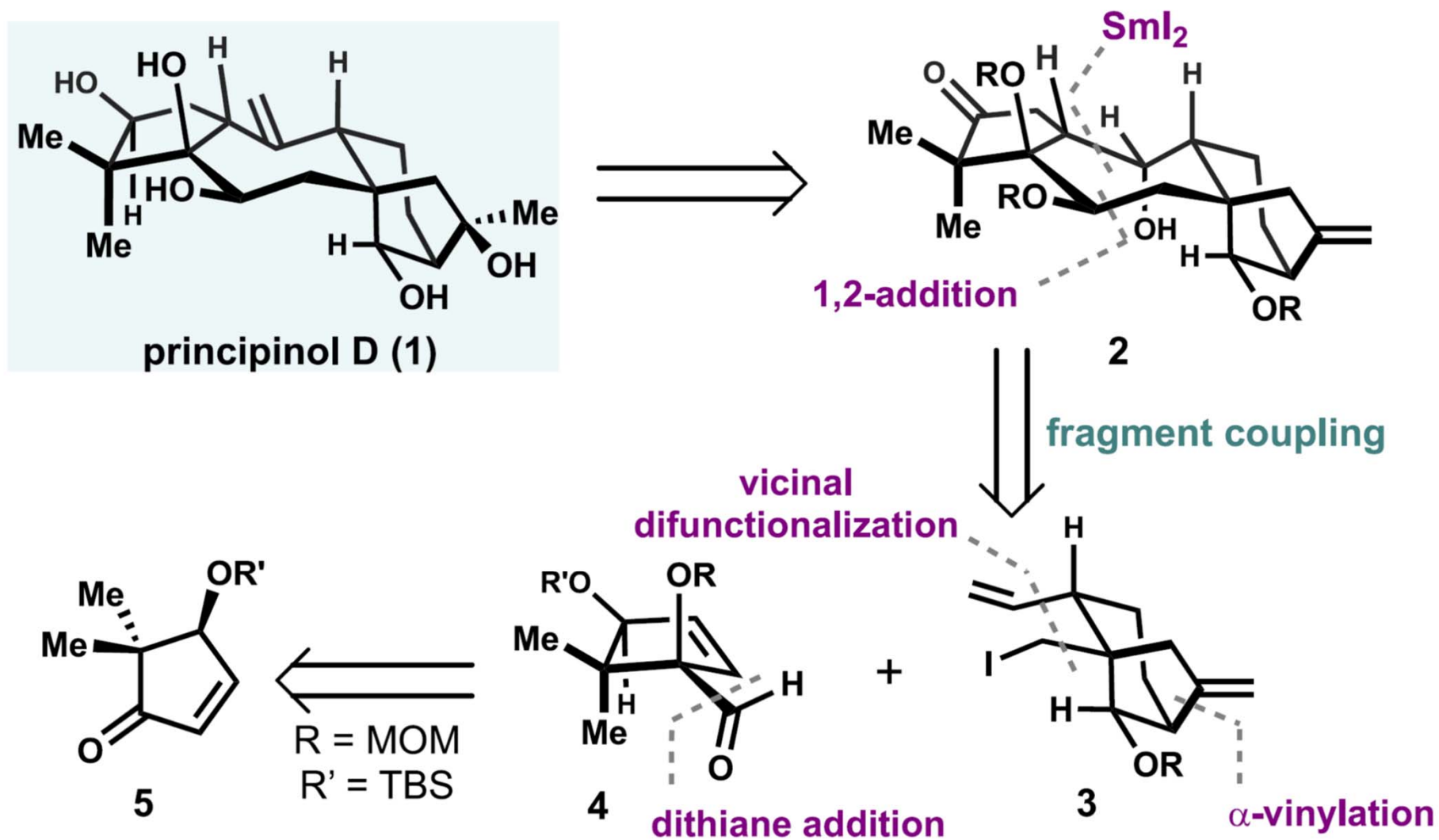
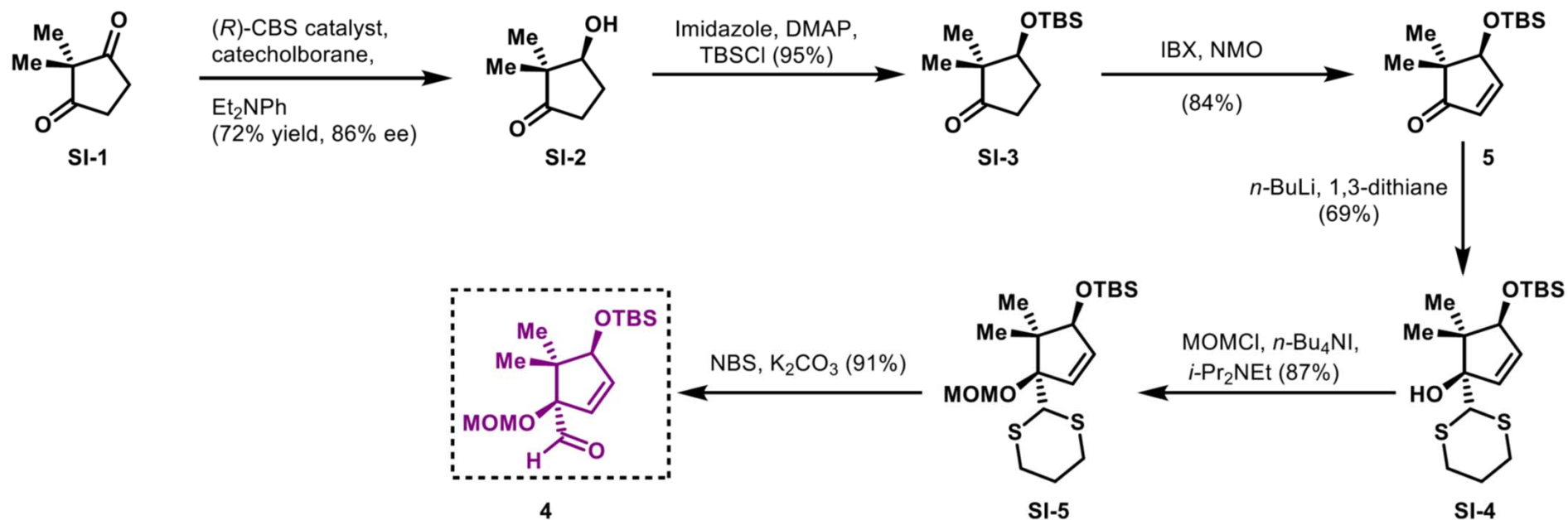
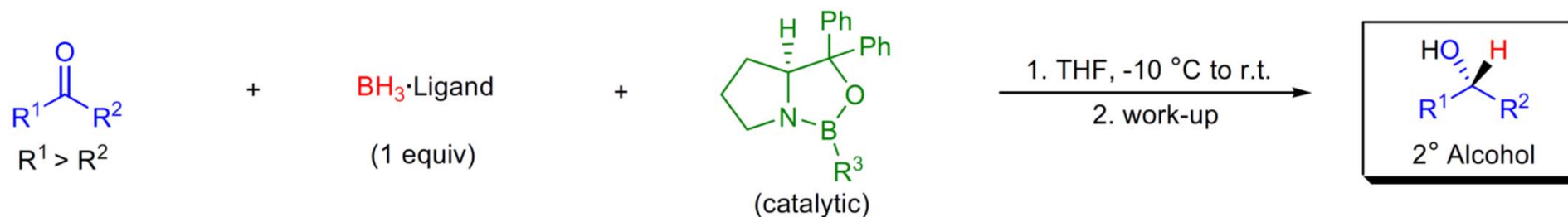


Figure SI-1: Synthetic route towards the 5-membered ring fragment

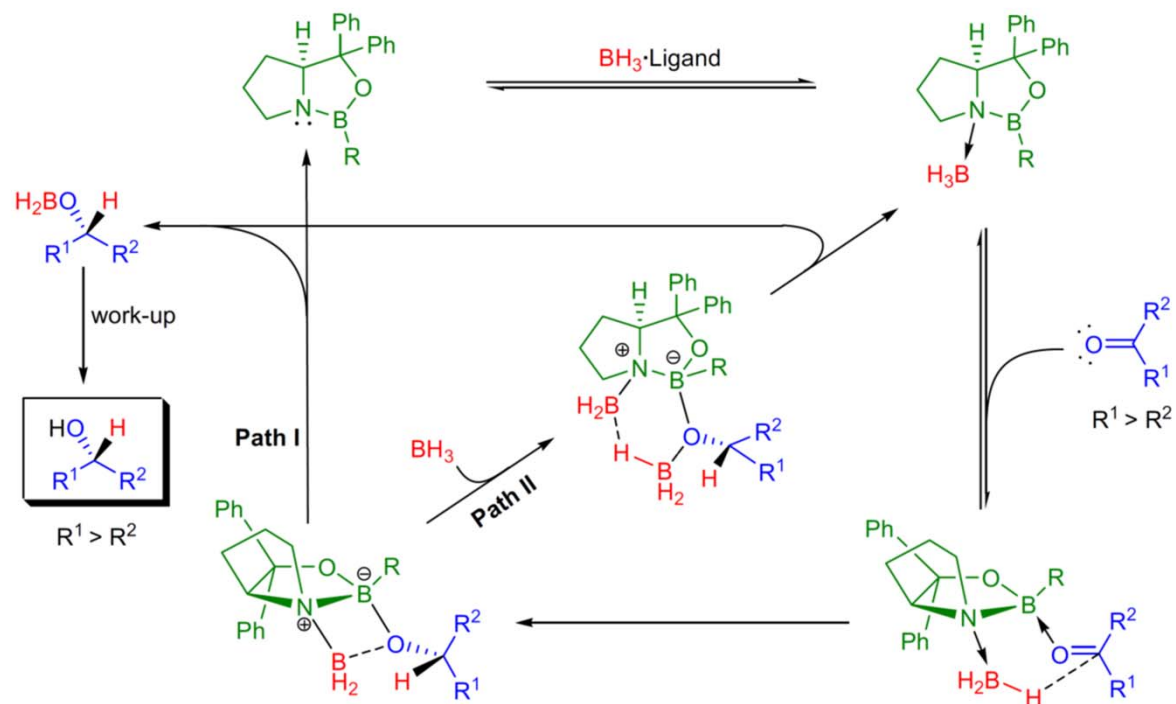


COREY-BAKSHI-SHIBATA REDUCTION (CBS REDUCTION)

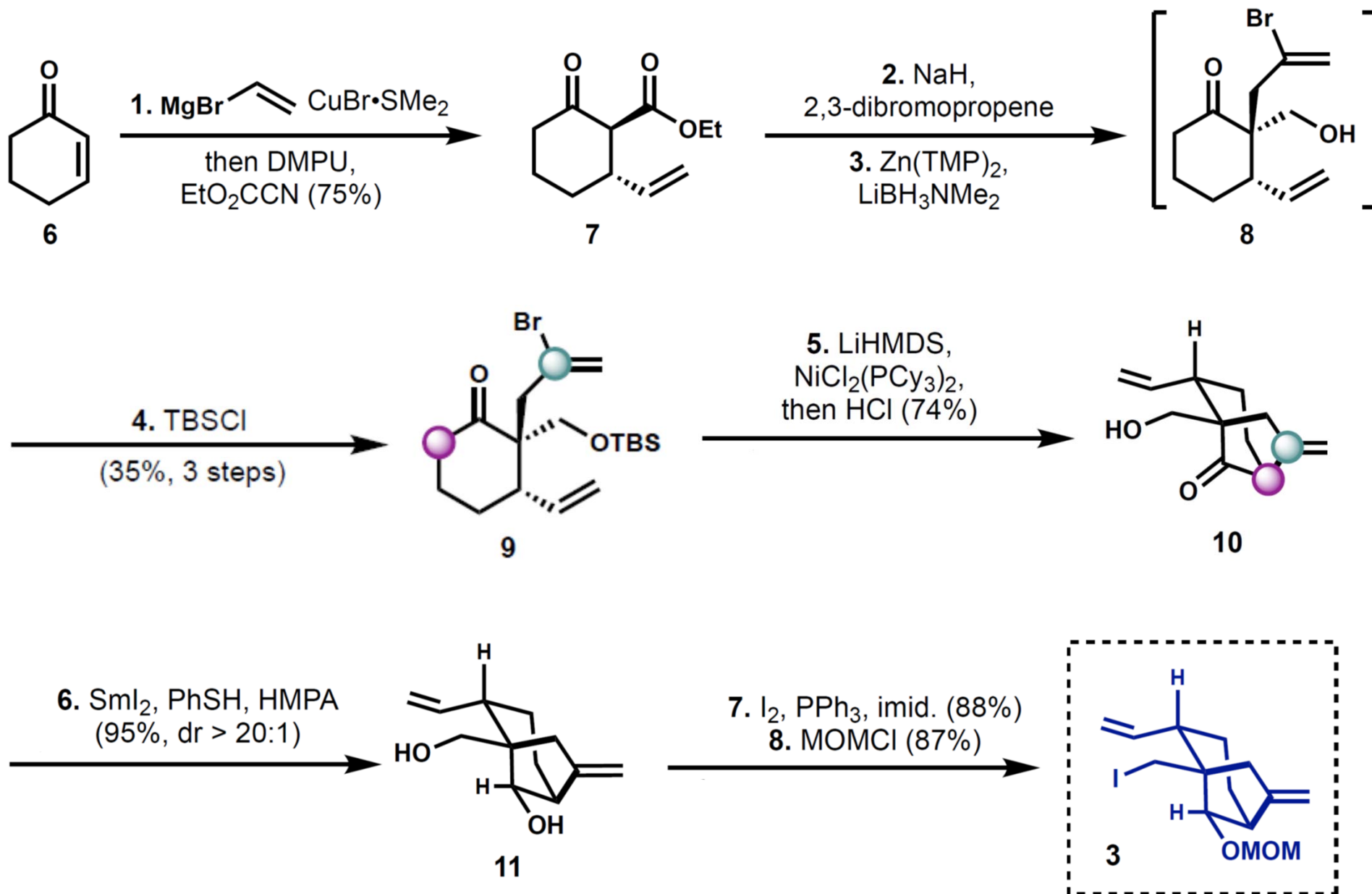


R^{1-2} = alkyl, aryl; Ligand: THF, Me_2S , 1,4-thioxane, diethylaniline; R^3 = H, alkyl

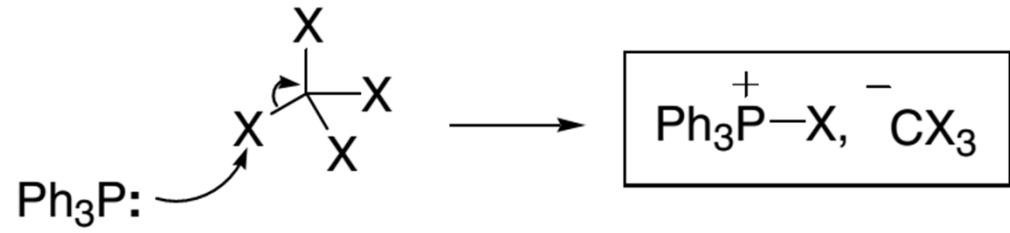
Mechanism: 2-4,24-27



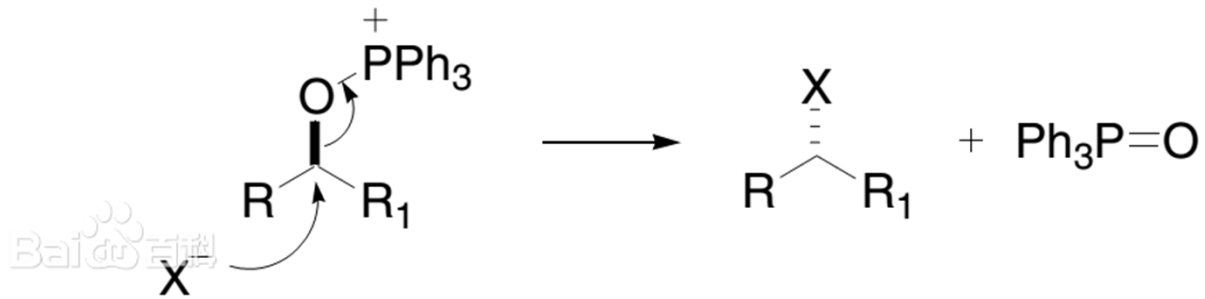
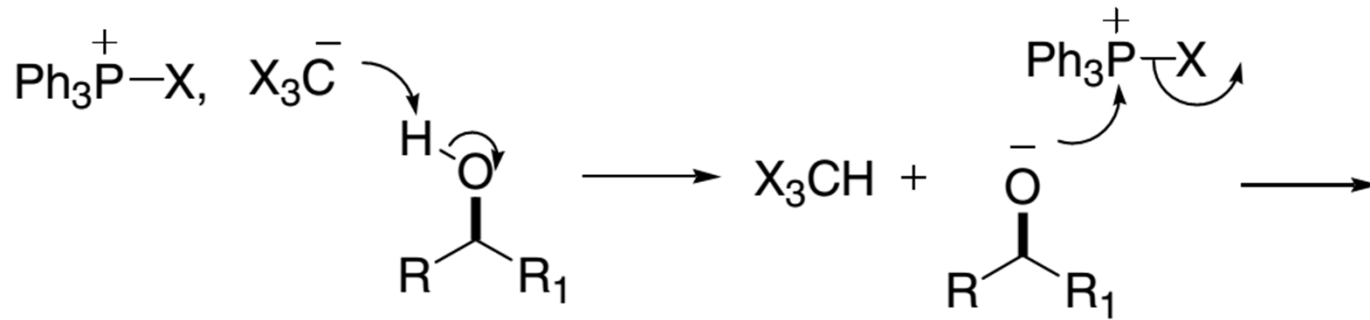
Synthetic route towards the bicyclo[3.2.1]octane fragment



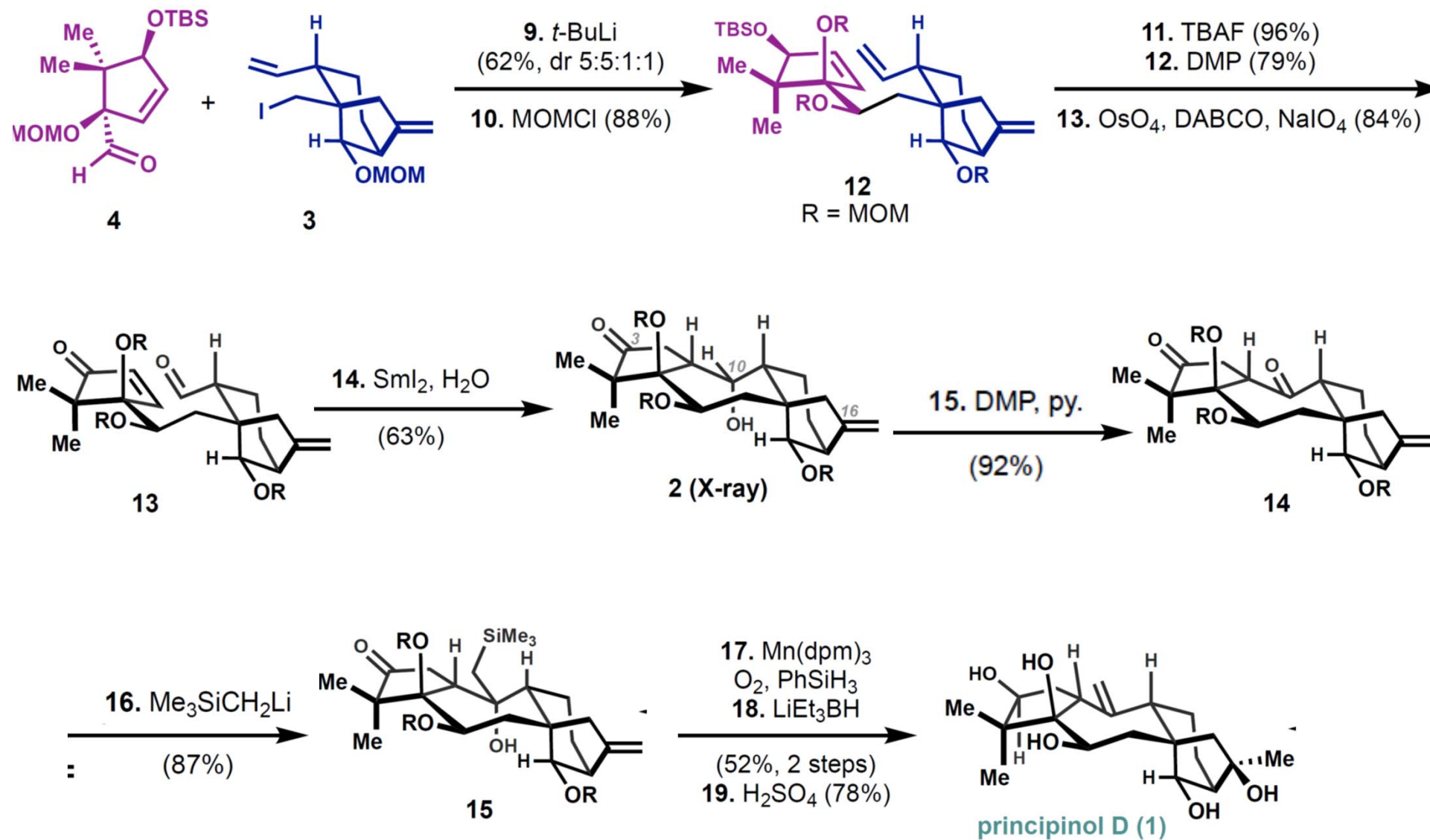
Appel Reaction



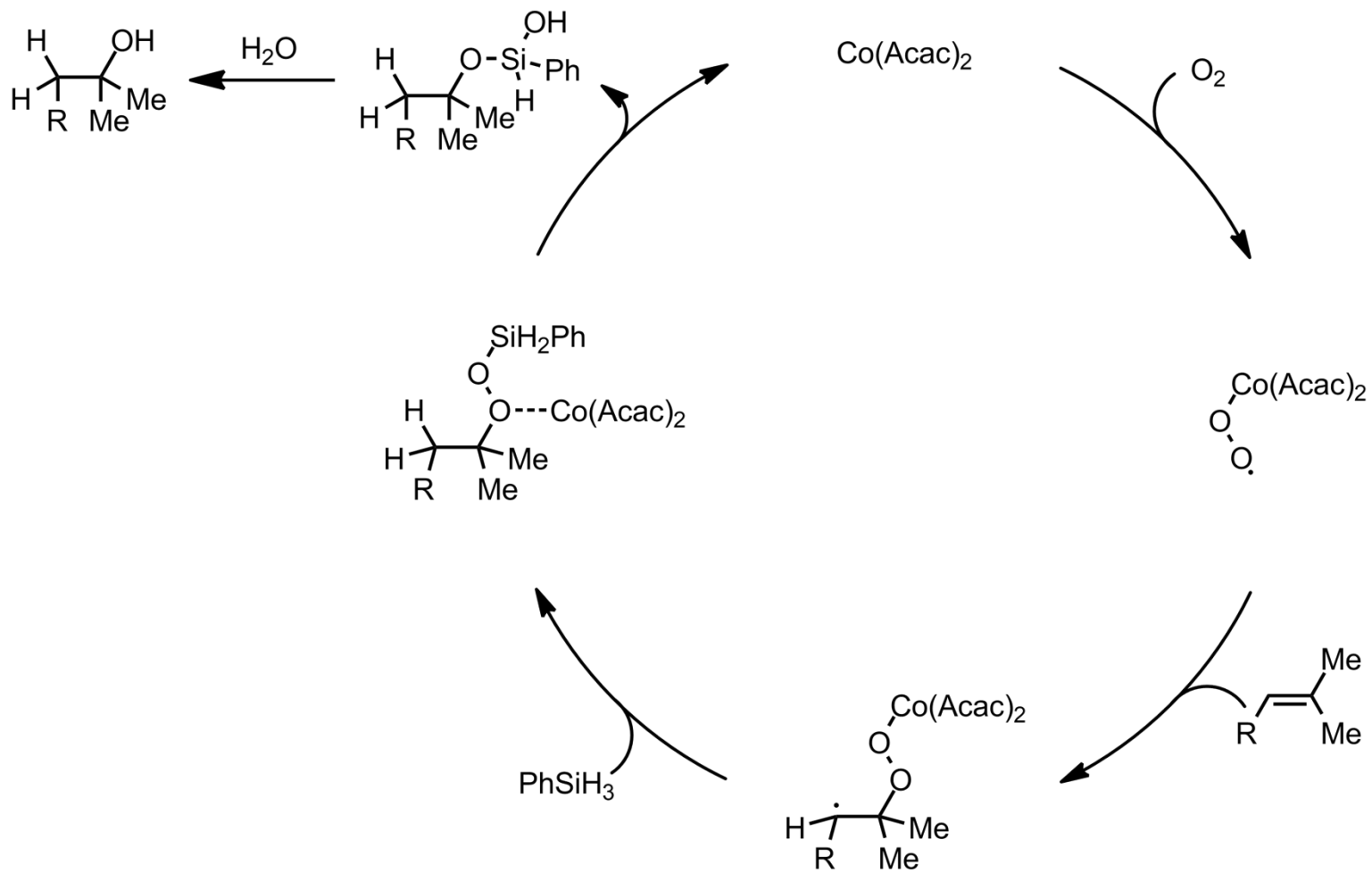
Appel's salt



Fragment coupling and completion of synthesis



Mechanism of the Mukaiyama Hydration



谢谢