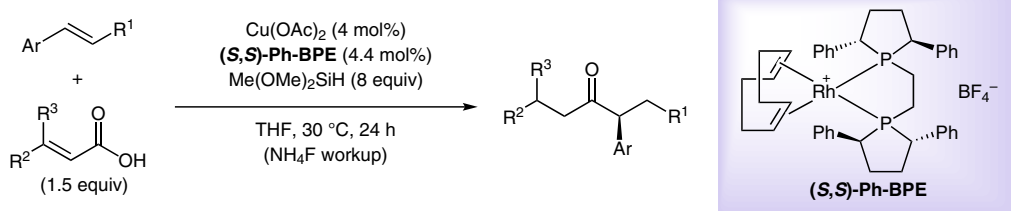
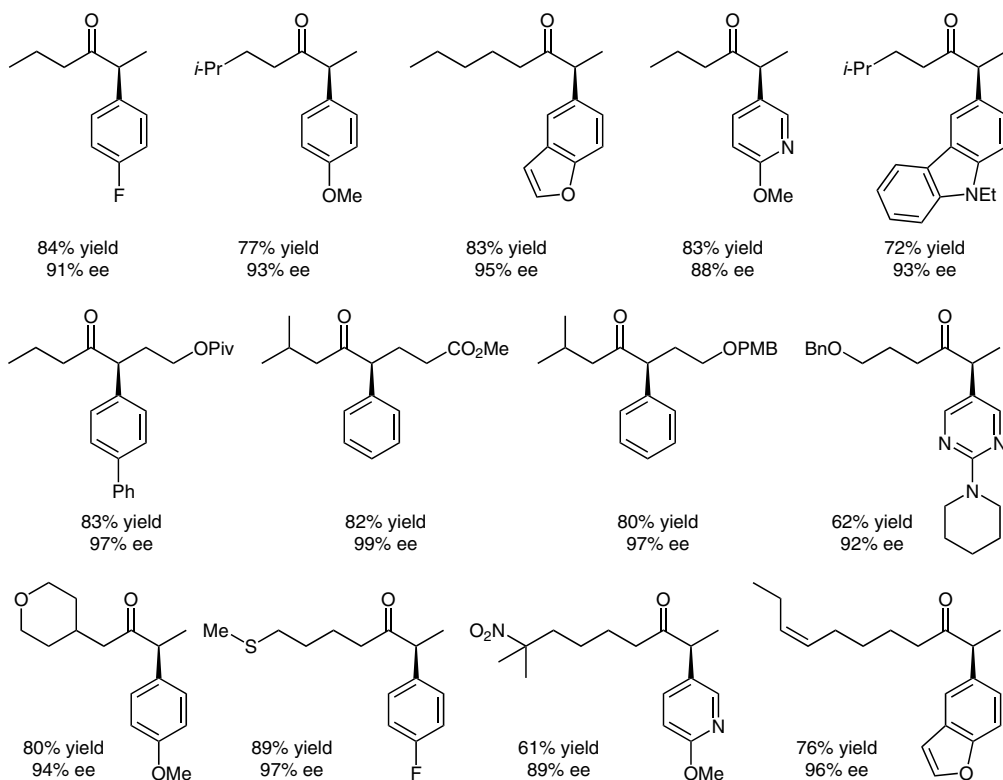


## Asymmetric Copper Hydride Catalyzed Coupling Reaction to Access Chiral Ketones



### Selected examples:



**Significance:** The preparation of chiral  $\alpha$ -aryl dialkyl ketones is an important challenge for the synthesis community. The authors have developed a Cu-catalyzed enantioselective hydroacylation of  $\alpha,\beta$ -unsaturated carboxylic acids with aryl alkenes.

**Comment:** This direct asymmetric copper hydride catalysis is highly effective in coupling  $\alpha,\beta$ -unsaturated carboxylic acids to aryl alkenes to afford the corresponding chiral  $\alpha$ -aryl dialkyl ketones in moderate yields and with high enantioselectivities.