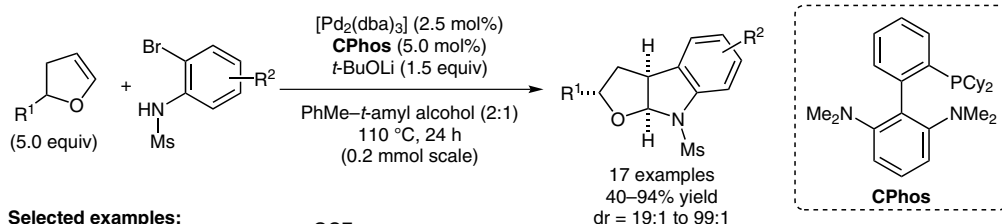
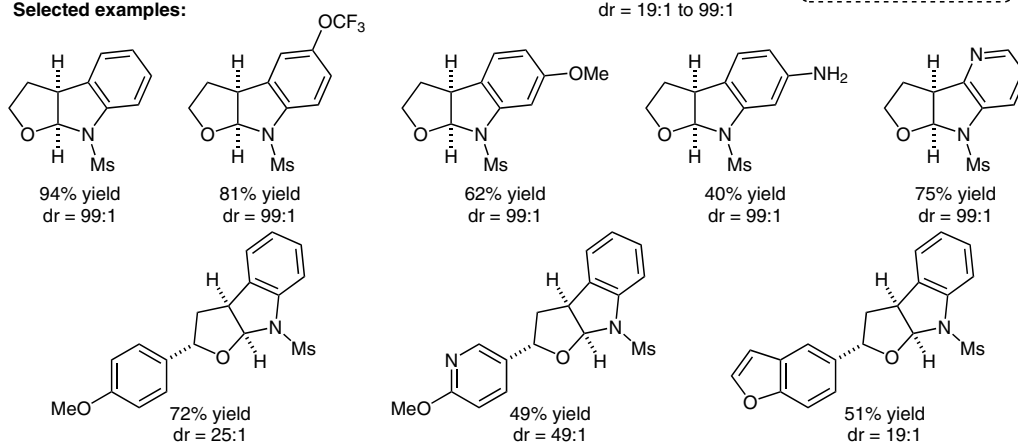


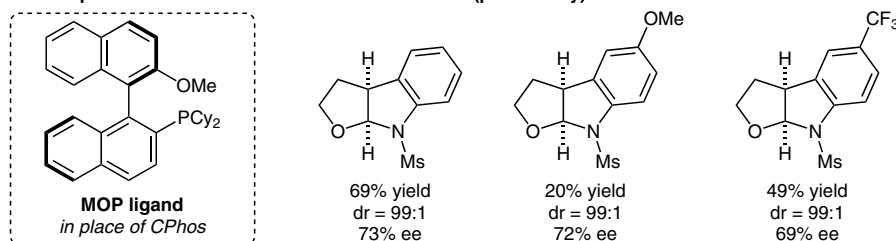
# Intermolecular Carboamination Catalyzed by Palladium



## Selected examples:



## Selected examples of the enantioselective carboamination (preliminary):



**Significance:** As part of the family of indole alkaloids, furoindoline structures represent a recurrent motif in many biologically active compounds and pharmaceuticals. The authors capitalized on their previous palladium-catalyzed stereoselective intermolecular carboetherification of dihydrofurans for the development of a novel palladium-catalyzed *syn*-carboamination. In addition to the high levels of diastereoselectivity obtained, the authors present preliminary results toward the development of an enantioselective version of the reaction.

**Comment:** After careful optimization of the reaction conditions, mesyl-protected 2-bromo anilines were reacted with an excess of dihydrofuran and dihydrofuran derivatives in the presence of [Pd<sub>2</sub>(dba)<sub>3</sub>] and CPhos to afford the corresponding furoindoline products in moderate to good yields and good to excellent diastereoselectivities. Preliminary studies toward the development of an enantioselective version of the reaction are exemplified by the six examples reported (20–70% yield, 63–73% ee).