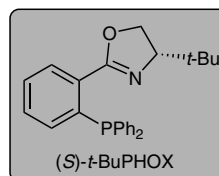
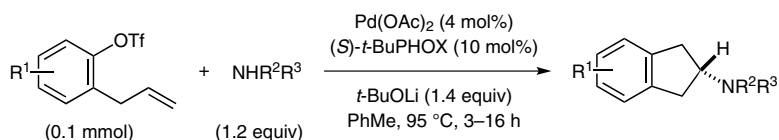
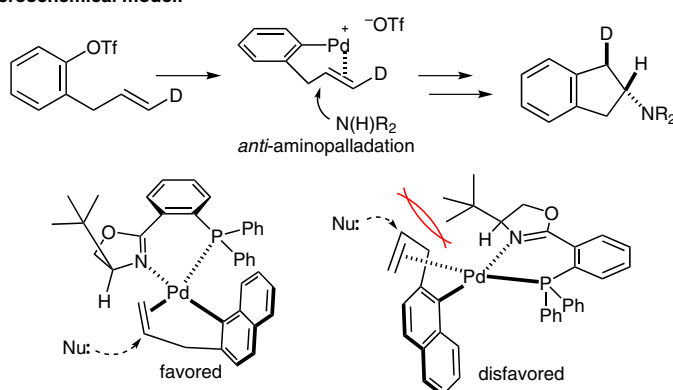


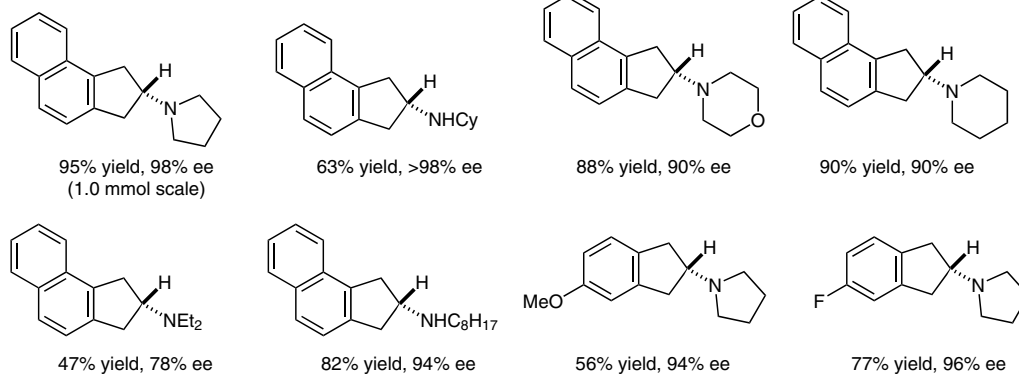
Palladium-Catalyzed Asymmetric Carboamination of Alkenes



Proposed stereochemical model:



Selected examples:



Significance: The authors presented an asymmetric alkene carboamination reaction that uses an external amine nucleophile. A combination of a palladium(II) salt and the (S)-t-BuPHOX ligand worked efficiently to deliver 2-aminoindane derivatives in high yields and excellent enantioselectivities (>98% ee).

Comment: The intermolecular *anti*-aminopalladation with an external amine nucleophile is the major highlight of this work. This group previously reported an intramolecular *anti*-aminopalladation for the synthesis of cyclic sulfonamides (*Chem. Eur. J.* **2014**, *20*, 8782). A deuterium-labelling study supported the *anti*-aminopalladation pathway. The choice of the chiral ligand and nucleophile are crucial for high yields and selectivities.