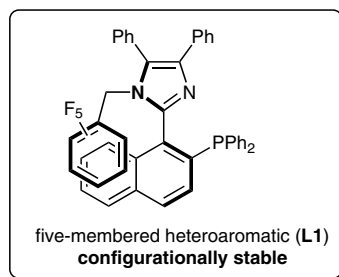
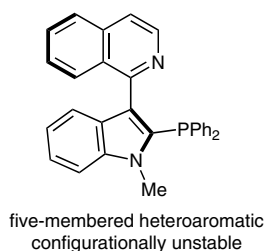
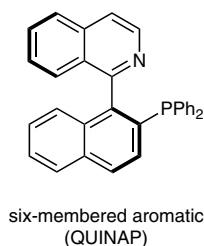
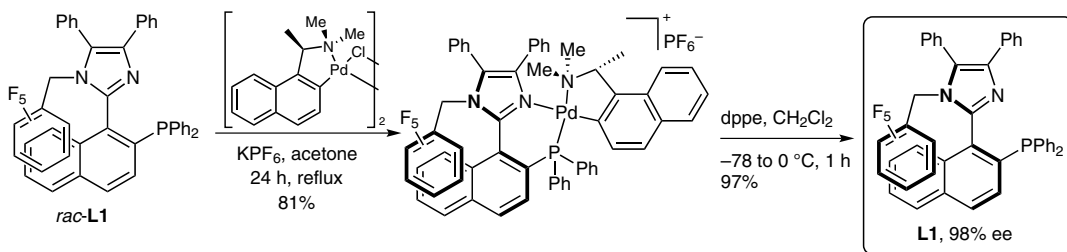
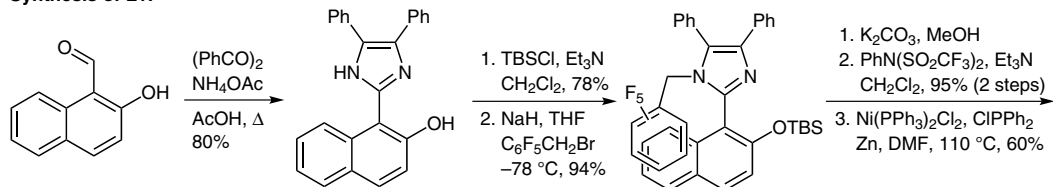


A Chiral Biaryl P,N-Ligand for Asymmetric Catalysis

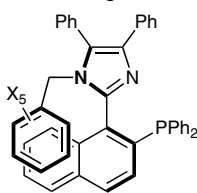
Concept:



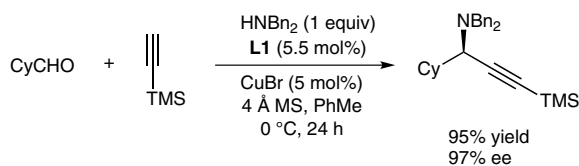
Synthesis of L1:



Importance of π -stacking:



Selected example:



Significance: The authors reported the preparation of a new chiral biaryl P,N-ligand incorporating a five-membered electron-rich heteroaromatic. This ligand is easy to prepare and an effective catalyst for the enantioselective alkylation of imines.

Comment: In contrast to the six-membered P,N-ligands, five-membered P,N-ligands are configurationally unstable. The authors have succeeded in preparing a configurationally stable five-membered P,N-ligand involving π -stacking interaction, which would offer a new, unexplored chemical diversity.