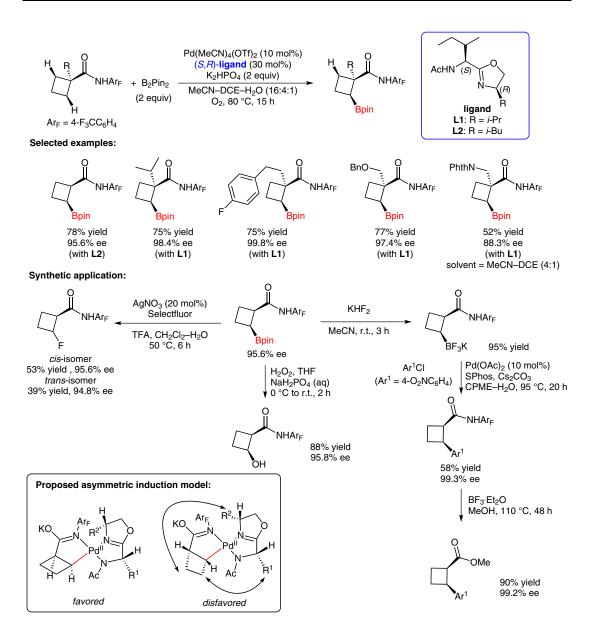
J. HE, Q. SHAO, Q. WU, J.-Q. YU* (THE SCRIPPS RESEARCH INSTITUTE, LA JOLLA, USA) Pd(II)-Catalyzed Enantioselective C(sp³)-H Borylation

J. Am. Chem. Soc. 2017, 139, 3344-3347.

Enantioselective Palladium(II)-Catalyzed Borylation



Significance: The authors developed a palladium(II)-catalyzed borylation of cyclic amides by using chiral bidentate ligands. A wide variety of borylated cyclobutanes bearing an amide group were obtained with high selectivities.

SYNFACTS Contributors: Hisashi Yamamoto, Yasushi Shimoda Synfacts 2017, 13(06), 0601 Published online: 16.05.2017 DOI: 10.1055/s-0036-1590457; Reg-No.: H04817SF

cluding the removal of the amide auxiliary, was accomplished to demonstrate the synthetic utility of the reaction. An asymmetric induction model is also proposed.

Category

Metal-Catalyzed Asymmetric Synthesis and Stereoselective Reactions

Key words

palladium catalysis borylation amides



Comment: A transformation of the product, in-

601