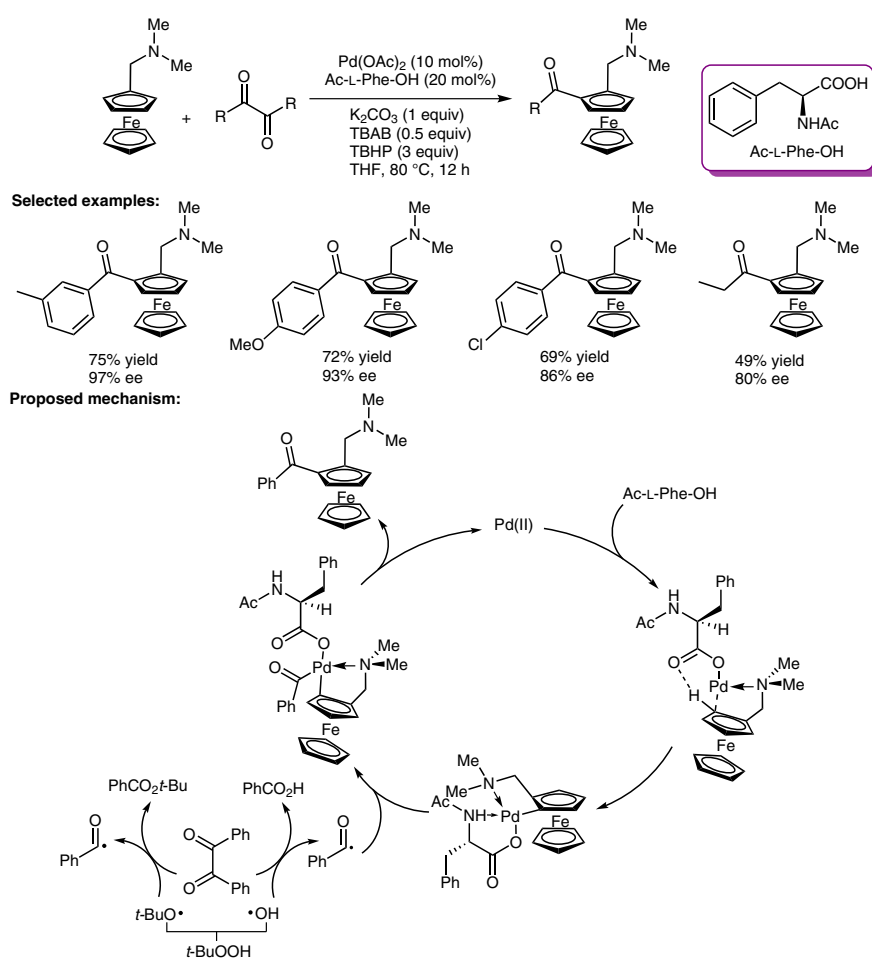


C. PI, X. CUI,* X. LIU, M. GUO, H. ZHANG, Y. WU* (ZHENGZHOU UNIVERSITY AND XIAMEN KEY LABORATORY OF OCEAN AND GENE DRUGS, SCHOOL OF BIOMEDICAL SCIENCES AND INSTITUTE OF MOLECULAR MEDICINE OF HUAQIAO UNIVERSITY & ENGINEERING RESEARCH CENTER OF MOLECULAR MEDICINE OF CHINESE EDUCATION MINISTRY, XIAMEN, P. R. OF CHINA)

Synthesis of Ferrocene Derivatives with Planar Chirality via Palladium-Catalyzed Enantioselective C–H Bond Activation

Org. Lett. **2014**, *16*, 5164–5167.

Asymmetric Synthesis of Ferrocenes via Palladium-Catalyzed C–H Bond Activation



Significance: The authors report a highly enantioselective route to the synthesis of 2-acyl-1-dimethylaminomethylferrocene derivatives with planar chirality via a palladium-catalyzed asymmetric C–H bond activation using monoprotected amino acids as chiral ligands.

Comment: Due to their important role in promoting various asymmetric catalyzed reactions, 2-acyl-1-dimethylaminomethylferrocene derivatives with planar chirality were provided under one-pot reaction conditions in moderate to good yields and with excellent enantioselectivities via a palladium-catalyzed direct acylation of ferrocene.

SYNFACTS Contributors: Hisashi Yamamoto, Wafa Gati
Synfacts 2015, 11(1), 0049 Published online: 15.12.2014
DOI: 10.1055/s-0034-1379754; **Reg-No.:** H16014SF