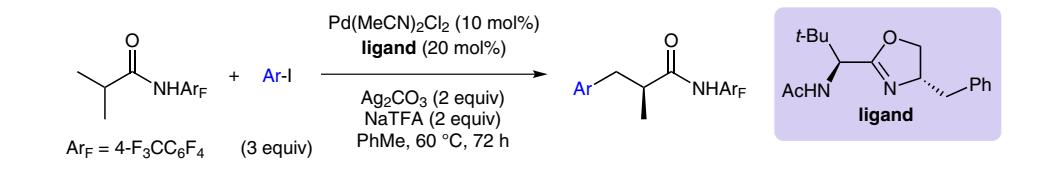
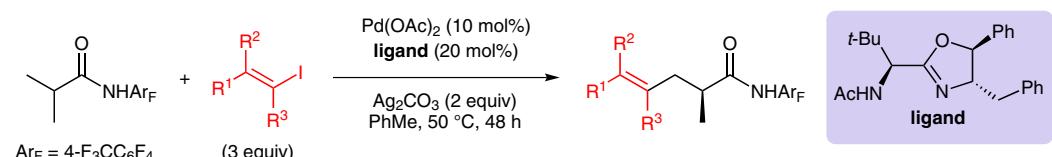
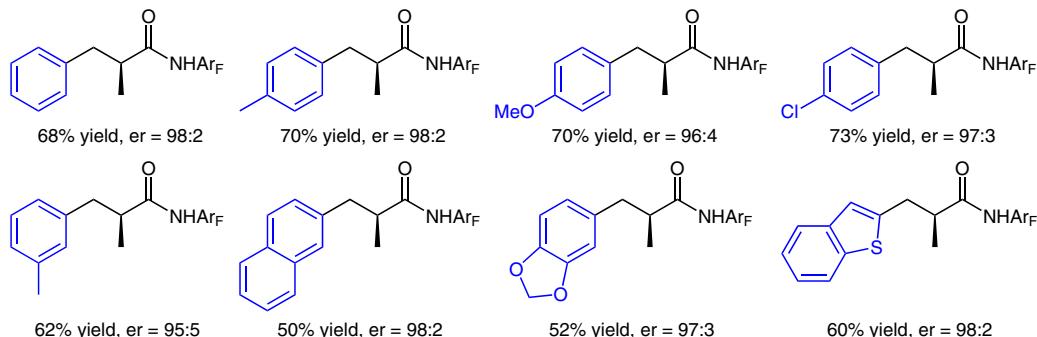


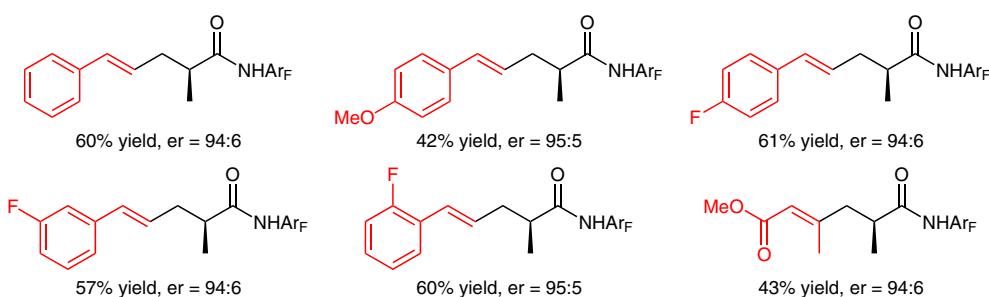
Palladium-Catalyzed Asymmetric C–H Functionalizations of Isobutanamides



Selected examples:



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Significance: Desymmetrization of isopropyl moieties has remained an unanswered challenge. The authors have developed new ligands for the formation of a chiral center at the α -position of isobutyric acid derivatives through β -C(sp³)-H functionalization.

Comment: This palladium-catalyzed protocol promotes an asymmetric β -C(sp³)-H arylation, alkenylation, or alkynylation to form a chiral center at the α -position of a range of isobutyric acid derivatives with moderate yields and excellent enantioselectivities.