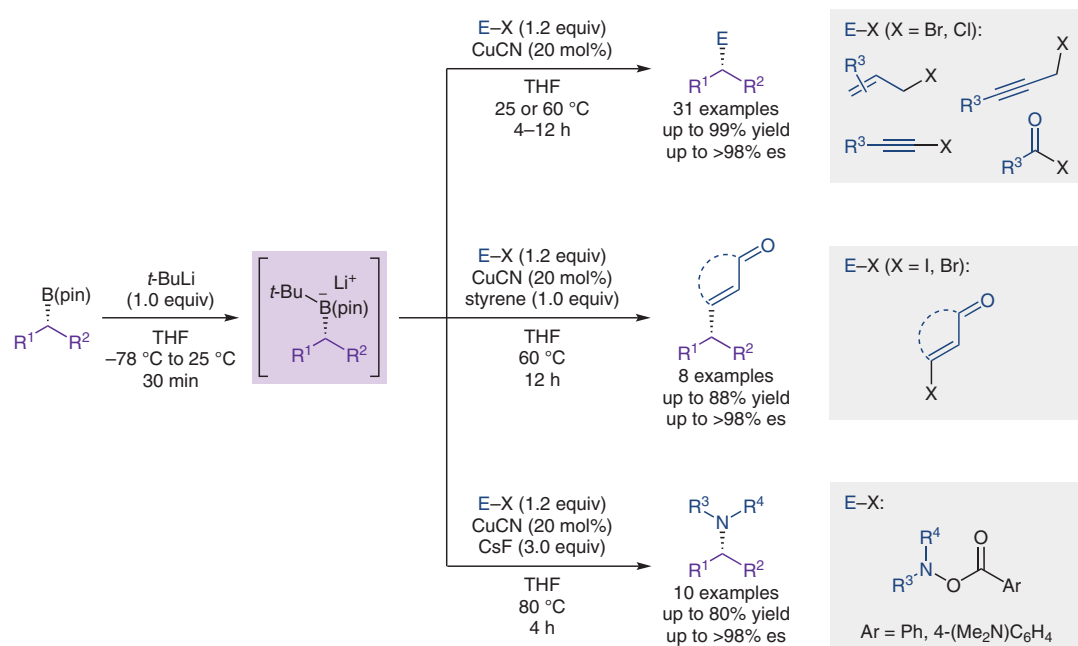
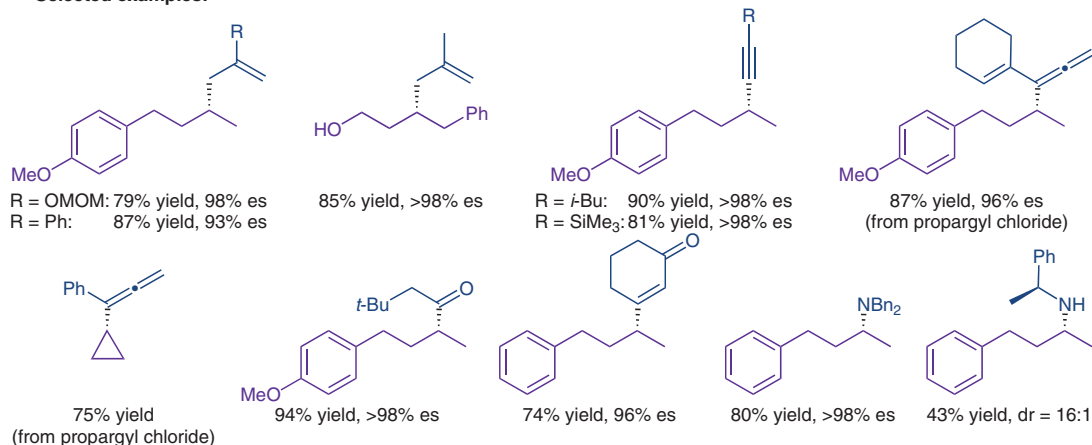


Stereospecific Functionalization of Activated Alkylboronic Esters under Copper Catalysis



Selected examples:



Significance: A copper-catalyzed method for the stereospecific functionalization of boron ‘ate’ complexes obtained from enantioenriched pinacol boronic esters and *tert*-butyllithium is disclosed. This protocol is operationally simple and can be carried out on gram scale.

Comment: The *tert*-butyl-activated boronate complexes undergo stereoretentive transmetalation to copper cyanide and subsequent coupling with various electrophiles such as allyl-, alkynyl-, propargyl- and acyl halides, β -haloenones and hydroxylamine esters.