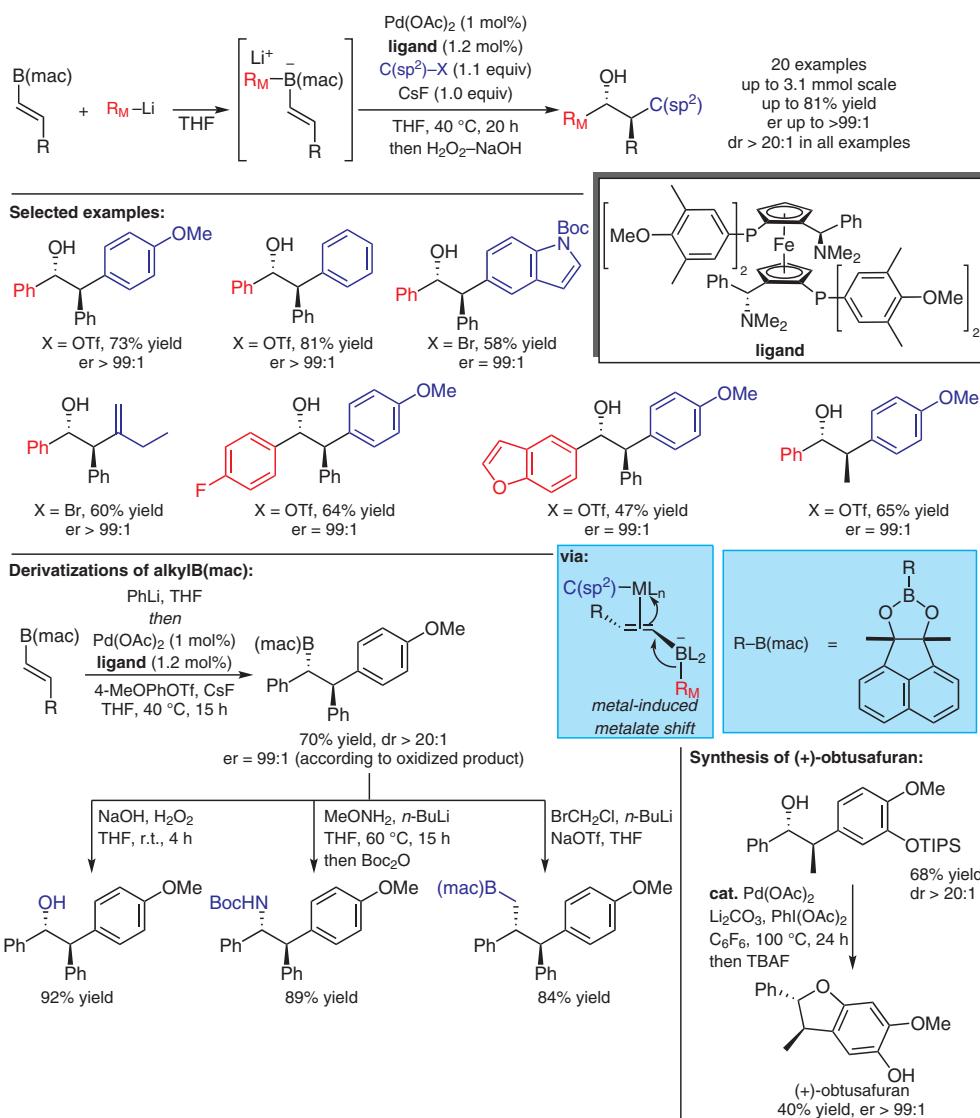


Diastereo- and Enantioselective Conjunctive Cross-Coupling via a Metolate Shift



Significance: The authors describe a conjunctive cross-coupling process to access products with vicinal stereogenic centers. This method avoids the generation of Suzuki–Miyaura stilbene byproducts obtained when typical boronic esters are employed.

Comment: Products are obtained in moderate yields and excellent enantio- and diastereoselectivities. The synthetic utility of the –B(mac) handle is demonstrated. Additionally, this methodology was used for the synthesis of (+)-obtusafuran.

Category
Metals in Synthesis
Key words
palladium catalysis conjunctive cross-coupling metolate shift

