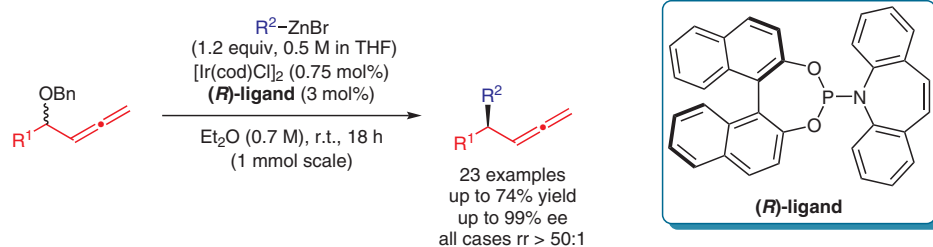
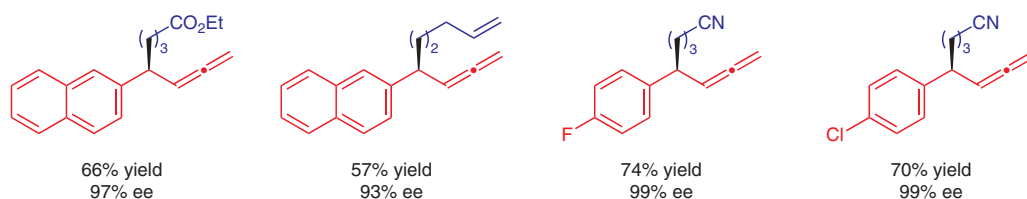


D. A. PETRONE, M. ISOMURA, I. FRANZONI, S. L. RÖSSLER, E. M. CARREIRA* (ETH ZÜRICH, SWITZERLAND AND UNIVERSITY OF TORONTO, CANADA)
Allenyllic Carbonates in Enantioselective Iridium-Catalyzed Alkylations
J. Am. Chem. Soc. **2018**, *140*, 4697–4704.

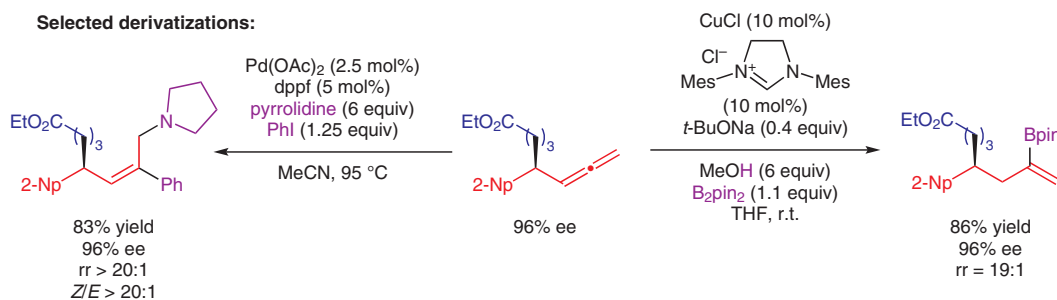
Iridium-Catalyzed Alkylation of Allenyllic Electrophiles



Selected examples:



Selected derivatizations:



Significance: Carreira and co-workers have reported an iridium-catalyzed enantioselective alkylation using allenyllic carbonates as electrophiles. Chiral allenes are isolated in good yields, with excellent regio- and stereoselectivity.

Comment: The products are further derivatized, providing examples of useful chiral building blocks. Mechanistic studies suggest that the catalyst has no kinetic preference for a specific substrate enantiomer and that the enantioselectivity is strictly under catalyst control.

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