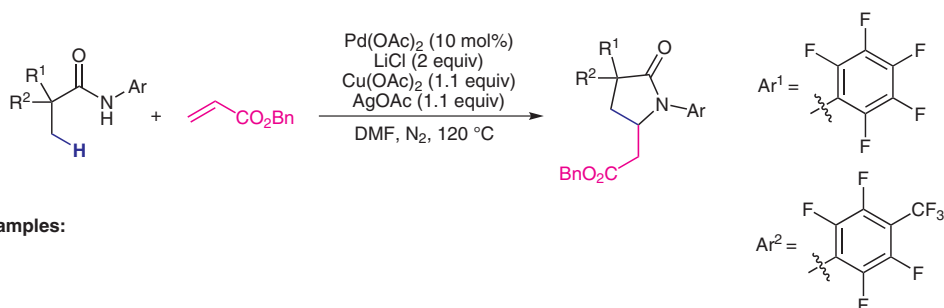
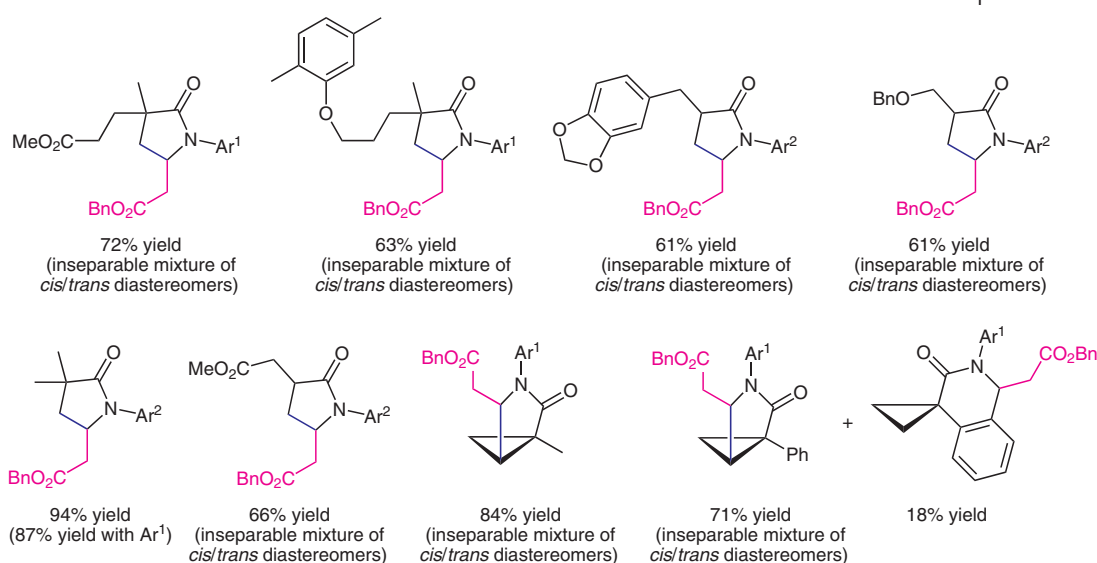


Amide-Directed Olefination of sp^3 C–H Bonds



Selected examples:



Significance: A highly efficient protocol for the direct olefination of sp^3 C–H bonds was developed. In this reaction, strongly electron-deficient amides serve as directing groups. The method could be applied to a wide variety of substrates, including even cyclopropyl methylene C–H bonds and compounds containing α -hydrogen atoms.

Comment: The scope of the Mizoroki–Heck reaction has been considerably enlarged with this method. Now, not only sp^2 C–H bonds but also sp^3 C–H bonds can be efficiently and selectively olefinated giving an easy and straightforward access to variously functionalized lactams.