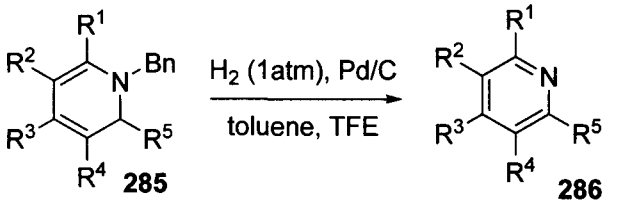
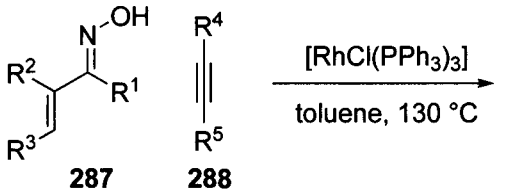
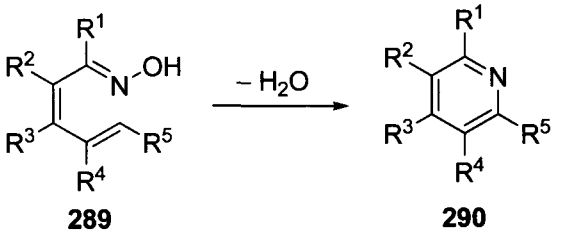
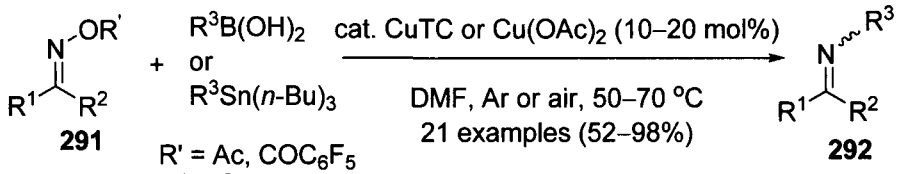


Cheng and co-workers reported a one-pot synthesis of substituted pyridines through a rhodium-catalyzed C–H alkenylation of α,β-unsaturated ketoximes **287** with symmetrical alkyne substrates **288**. 6π-Electrocyclization of the azatriene intermediates **289** and subsequent loss of water afforded the desired pyridines **290** in moderate to good yields.[183]





Liebeskind reported a copper-catalyzed Chan–Lam C–N cross-coupling methodology for *N*-imination of boronic acids by using oxime *O*-carboxylates **291** as iminating agents and either Cu(I)-thiophene-2-carboxylate (CuTC) or $Cu(OAc)_2$ as the catalyst under nonbasic and nonoxidizing conditions.[184] Subsequently, the *N*-alkenylated α,β-unsaturated ketoxime *O*-pentafluorobenzoates **293**, were precursors in a cascade reaction for the one-pot synthesis of tri-, tetra-, and penta-substituted pyridines **295** in moderate to excellent isolated yields.[185]



R' = Ac, COC_6F_5
R^1, R^2 = aryl, heteroaryl, alkyl
R^3 = aryl and alkenyl for B; aryl, heteroaryl, and alkenyl for Sn