Azides and Nitriles in Palladium-Catalyzed Decarboxylative Allylation

Significance: Homoallylic azides and cyanides are synthesized in enantioenriched form through a palladium-catalyzed decarboxylative allylation on indanones. These functional groups had seen little (CN) to no (N₃) reported use in the title reaction.

Comment: The products are obtained in very good yield and mostly with high enantioselectivity. The starting materials can be synthesized in one step from the corresponding β-keto esters using hypervalent iodine reagents developed in the authors' laboratories.