Aryl nitriles are important structural motif in various pharmaceutical and natural products. With the aid of Pd-CM-phos catalyst system, the first cyanation of aryl mesylate is achieved. The reaction conditions are mildest reported so far for aryl chloride cyanation. Moreover, the direct decarboxylative arylation of cyanoacetate is feasible for generating a,a-diaryl nitriles.

References: