Title:	“Organophosphine Catalyzed Intramolecular Hydroacylation and δ' [C(Sp3) – H] Functionalization of Activated Ynones.”
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Abstract:	We present an organophosphine catalyzed MBH-type reaction of activated ynone and the outcome is the hydroacylation of α, ß-ynone, which leads to the formation of cyclopentadione-fused arenes and heteroarenes. In addition, we also present an organophosphine catalyzed intramolecular aldol reaction of keto-ynone, which is actually an organophosphine catalyzed δ'[C(sp3)-H]- functionalization of α, ß-ynone, leading to the formation of 3-ethynyl-3-hydroxyindanones. Both the methodology occurs at mild conditions and is tolerant to a variety of functional groups and hence we are able to synthesize a series of compound having different type of functional groups with good to excellent yield.
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