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Title:	Phosphine-Catalyzed Intramolecular Vinylogous Aldol Reaction of α -Substituted Enones
Authors:	Mondal, Atanu (/jspui/browse?type=author&value=Mondal%2C+Atanu) Satpathi, Bishnupada (/jspui/browse?type=author&value=Satpathi%2C+Bishnupada) Ramasastry, S. S. V. (/jspui/browse?type=author&value=Ramasastry%2C+S.+S.+V.)
Keywords:	Phosphine-Catalyzed Intramolecular Vinylogous Aldol Reaction of α -Substituted Enones
Issue Date:	2022
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Citation:	Organic Letters, 24(1), 256-261.
Abstract:	We demonstrate the first phosphine-catalyzed intramolecular vinylogous aldol reaction (IVAR) of α -substituted enones. This strategy provides access to various pentannulated (hetero)arenes and dibenzocycloheptanones incorporated with two contiguous stereocenters, one of which is an all-carbon quaternary center. The scope of this work is further broadened through elaborations of the IVAR adducts to (i) benzannulated nine-membered carbocyclic systems, (ii) interesting classes of 1,3-dienes, 1,3,5-trienes, and 1-yn-3,5-dienes, and (iii) the analogs of echinolactone D and russujaponol F.
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