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Title:	Diastereoselective palladium-catalyzed functionalization of prochiral C(sp ³)–H bonds of aliphatic and alicyclic compounds
Authors:	Babu, Srinivasarao Arulananda (/jspui/browse?type=author&value=Babu%2C+Srinivasarao+Arulananda) Aggarwal, Yashika (/jspui/browse?type=author&value=Aggarwal%2C+Yashika) Patel, Pooja (/jspui/browse?type=author&value=Patel%2C+Pooja) Tomar, Radha (/jspui/browse?type=author&value=Tomar%2C+Radha)
Keywords:	palladium-catalyzed C–H Diastereoselective
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Abstract:	We highlight the reported developments of the palladium-catalyzed C–H activation and functionalization of the inactive/unreactive prochiral C(sp ³)–H bonds of aliphatic and alicyclic compounds. There exist numerous classical methods for generating contiguous stereogenic centers in a compound with a high degree of stereocontrol. Along similar lines, the Pd(II)-catalyzed, directing group-aided functionalization of inactive prochiral/diastereotopic C(sp ³)–H bonds have been exploited to accomplish the stereoselective construction of stereo-arrays in organic compounds. We present a concise discussion on how specific strategies consisting of Pd(II)-catalyzed, directing group-aided C(sp ³)–H functionalization have been utilized to generate two or more stereogenic centers in aliphatic and alicyclic compounds.
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