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Title:	Studies on the β -C(sp ³)-H Functionalization Toward the Synthesis of β -Arylated Unnatural Amino Acid Derivatives
Authors:	Tomar, Radha
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Abstract:	Thesis Abstract: The thesis entitled "Studies on the β -C(sp ³)-H functionalization toward the synthesis of β -arylated unnatural amino acid derivatives" covers five chapters including Chapter 1 describes with a preamble to C-H functionalization, Chapter 2 reveals the bidentate directing group aided Pd-catalyzed β -C(sp ³)-H arylation of unnatural amino acids towards the construction of pyrrolidinone derivatives, Chapter 3 reveals assembling of 4-aryl 2-piperidones, piperidines, antituberculosis molecule (Telacebec) and its analogues via Pd(II)-catalyzed β -C(sp ³)-H arylation, Chapter 4 reveals the application of Pd(II)-catalyzed, directing group-assisted C-H arylation strategy for the synthesis of azobenzene- based unnatural amino acid scaffolds and peptides, Chapter 5 reveals the pyridine N-oxide directing group-directed remote functionalization of phenylacetamides, phenylglycine and heterocyclic amides via Pd-catalyzed regioselective γ -C(sp ² /sp ³)-H and δ -C(sp ²)-H functionalization of carboxamides.
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