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Title:	Palladium-Catalyzed 8-Aminoquinoline-Aided sp2δ-C−H Intramolecular Amidation/Annulation: A Route to Tricyclic Quinolones
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Abstract:	Systematic investigations of a Pd(II)-catalyzed, 8-aminoquinoline directing group (DG)-aided sp2 δ-C−H amidation (C−N bond formation) of different biaryl carboxamides are reported. Various biaryl carboxamides with suitably positioned sp2 δ-C−H bond with respect to the DG were assembled via β-C−H arylation and then they were subjected to Pd(II)-catalyzed sp2 δ-C−H intramolecular amidation/annulation reactions. While the intramolecular amidation of the sp2 δ-C−H bond of some carboxamides was not fruitful, several biaryl carboxamides underwent intramolecular amidation of their sp2 δ-C−H bonds to afford various tricyclic quinolone motifs such as, phenanthridin-6(5H)-ones and thieno-/furo-/pyrrolo-[2,3-c]quinolin-4(5H)-ones. The assembly of the required biaryl carboxamides possessing the sp2 δ-C−H bond via the β-C−H arylation and the successive intramolecular amidation (C−N bond formation) of the resulting biaryl carboxamides were also performed in one-pot reaction conditions to afford tricyclic quinolones.
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