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**Title:** Auxiliary-Enabled Pd-Catalyzed Direct Arylation of Methylene C(sp<sup>3</sup>)-H Bond of Cyclopropanes: Highly Diastereoselective Assembling of Di- and Trisubstituted Cyclopropanecarboxamides

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**Abstract:** An auxiliary-enabled and Pd(OAc)<sub>2</sub>-catalyzed direct arylation of C(sp<sup>3</sup>)-H bonds of cyclopropanes and production of di- and trisubstituted cyclopropanecarboxamides having contiguous stereocenters are reported. The installation of aryl groups on cyclopropanecarboxamides led to the assembling of novel mono- and di- aryl-N-(quinolin-8-yl)cyclopropanecarboxamide scaffolds and mono- and di- aryl-N-(2-(methylthio)phenyl)cyclopropanecarboxamides. The stereochemistry of products was unequivocally assigned from the X-ray structures of key compounds.

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