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Title: Pd(II)-catalyzed, Picolinamide-aided sp² γ-C-H Functionalization of Phenylglycinol: Access to γ-C-H Arylated, Alkylated and Halogenated Phenylglycinol Scaffolds

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Abstract: We report the Pd(II)-catalyzed picolinamide-aided ortho-C-H arylation-, alkylation-, and halogenation (sp² γ-C-H functionalization) of phenylglycinol substrates. Phenylglycinols are remarkable building blocks and have found different applications in synthetic organic and medicinal chemistry. This work is a contribution towards the expansion of the library of phenylglycinol scaffolds and also substrate scope development by using the Pd(II)-catalyzed bidentate directing group picolinamide-aided C-H activation tactic.

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