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C-H functionalisation of indazoles and azaindazoles

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Indazoles and azaindazoles, which are 6,5-fused heterocyclic systems containing two or three nitrogen atoms, are very important heteroaromatic compounds with applications in biology and

materials sciences. Although the advances made in the synthesis and functionalization of indazoles and azaindazoles, C-H functionalization, which is a step and atom-economical transformation, remains the most attractive and advantageous procedure for the late-stage functionalization of indazoles and azaindazoles. They are five C-H bonds in indazoles and four C-H bonds in azaindazoles that can be

functionalized, but these bonds are inequivalent. Thus, the development of new reactions that allow the regioselective functionalization of indazoles and azaindazoles is needed. This presentation will describe the recent advances made by our group¹⁻⁷ and others in the C-H functionalization of indazoles and azaindazoles by direct arylation and oxidative alkenylation.

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