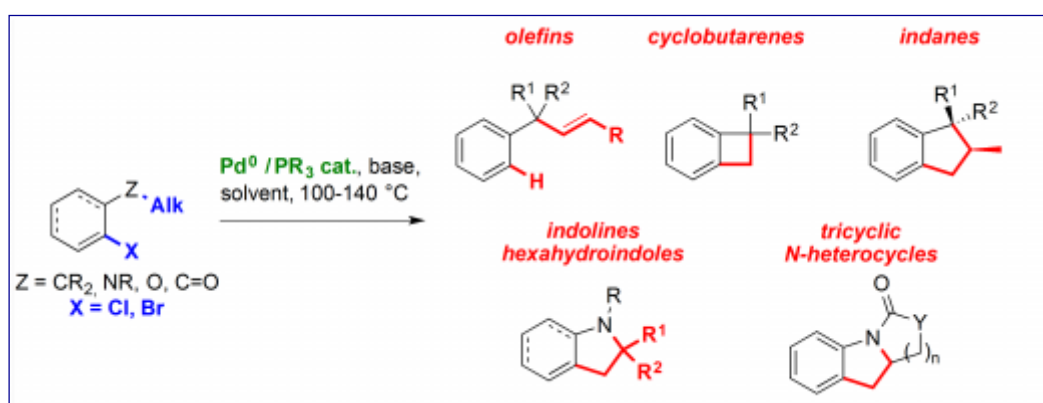


Palladium(0)-catalyzed C(sp³)-H bond activation for the construction of fused ring systems

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Research efforts from our group in the past decade have focused on the functionalization of unactivated C(sp³)-H bonds by catalysis by palladium complexes.¹ In particular, we have shown that reactions involving the intramolecular C-H activation of alkyl groups allow to synthesize olefins or diverse polycyclic systems efficiently (see Scheme) from aryl and alkenyl halides.²



This lecture will address several aspects of this chemistry including the development of methods, the study of reaction mechanisms, applications in multi-step synthesis,³ and the development of an asymmetric version.⁴

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