

From C-H to C-C Bond Activation: New Methodologies for the Construction of C-C Bonds

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the University of Tokyo**



Short Abstract: In the last few years, coupling methodologies based on the activation of a C-H bond or a C-C bond (via decarboxylation) have appeared as attractive alternatives to the traditional cross-couplings between a haloarene and an organometallic compound. The development of these new methods are hindered by a number of challenges, including the low intrinsic reactivity of most C-H and C-CO₂H bonds and regioselectivity problems in the case of C-H activation. Our recent work has been aimed at developing novel catalytic systems that address the problems of reactivity and selectivity.

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