



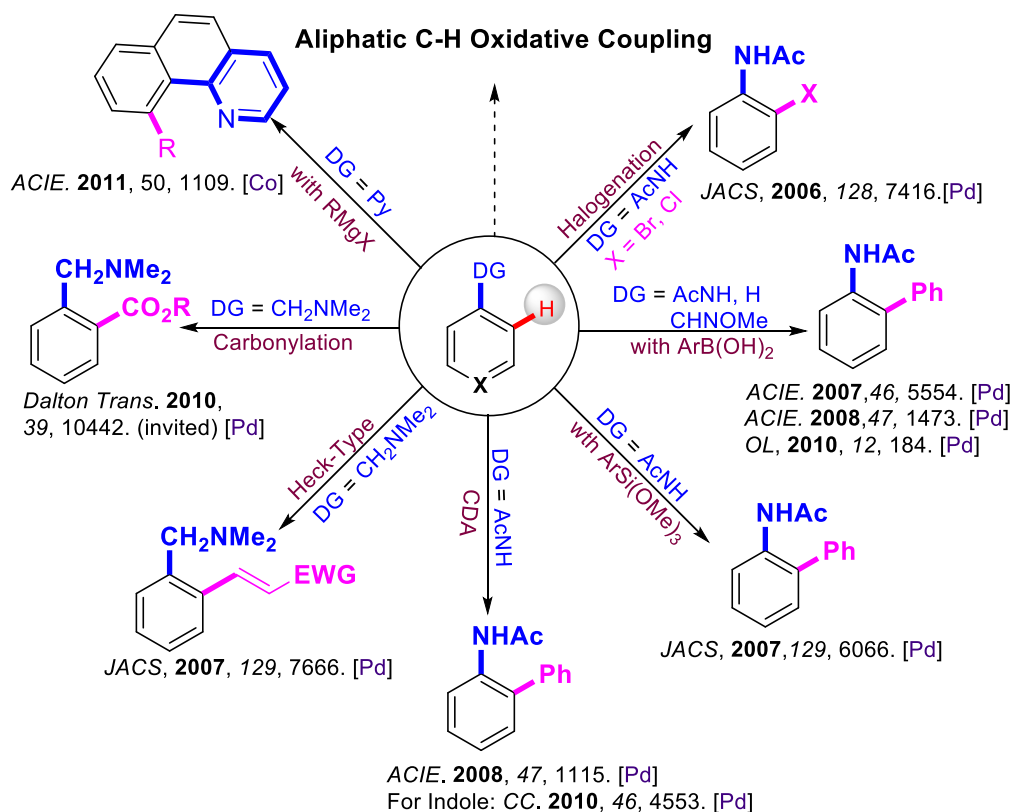
IL15 – Oxidative Coupling Based on C–H Bond Activation

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By avoiding tedious procedures to prepare organic halides, hydrocarbons has been directly applied for cross couplings to take place of organohalides under oxidative conditions. Starting from C–Hs, highly selective halogenations, oxidative coupling with aryl boronic acids, aryl silanes, Grignard reagents, and even another molecule of arenes were approached.¹ Benzylic and allylic C–H activations were also conducted to construct C–C bonds through oxidative coupling procedures.^{2,3}



References

- Sun, C.-L.; Li, B.-J.; Shi, Z.-J. *Chem. Commun.* **2010**, 46, 677.
- Lin, S.; Song, C.-X.; Cai, G.-X.; Wang, W.-H.; Shi, Z.-J. *J. Am. Chem. Soc.* **2008**, 130, 12901.
- Li, Y.-Z.; Li, B.-J.; Lu, X.-Y.; Lin, S.; Shi, Z.-J. *Angew. Chem. Int. Ed.* **2009**, 48, 3817