

Directed ortho Metalation - based Strategies for Condensed Aromatics and Heteroaromatics

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As part of efforts in synthetic method development in our laboratories, the PAH classes of environmental significant molecules have been of constant interest. Directed *ortho* and remote Metalation strategies, together with transition metal catalyzed cross coupling (especially Suzuki) constitute the strategies for the regioselective construction of aromatic and heteroaromatics. Classes of molecules for which new synthetic methods have been devised include polysubstituted benzenes, oxygenated naphthalenes and phenanthrenes, fluorenones and azafluorenones, indoles, quinolines, pyrones, among others. This lecture will present recent results especially as they potentially relate to biological, toxicological, and analytical interest to the ISPAC conference scientists.

Ancil, E.; Snieckus, V. In Diederich, F.; de Meijere, A. Ed. *Metal-Catalyzed Cross-Coupling Reactions*, 2nd Ed., **2004**, in press and Whistler, M.C.; MacNeil, S.; Snieckus, V.; Beak, P. *Angew. Chem. Int. Ed.* **2004**, *43*, 2206-2225.