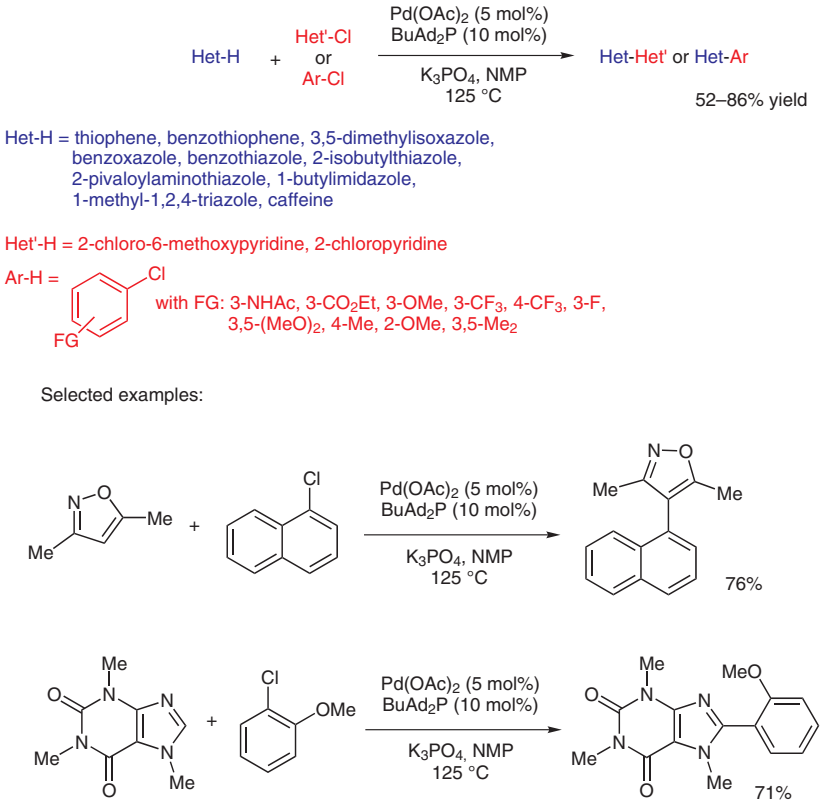
H. A. CHIONG, O. DAUGULIS* (UNIVERSITY OF HOUSTON, USA)
Palladium-Catalyzed Arylation of Electron-Rich Heterocycles with Aryl Chlorides
*Org. Lett.* **2007**, *9*, 1449-1451.

# Arylation of Heterocycles via C–H Activation and Cross-Coupling with Aryl Chlorides




**Significance:** A new cheap and general method for the cross-coupling of heterocycles is presented in this article. A wide range of heterocycles was subjected to Pd-catalyzed C–H activation with subsequent cross-coupling to aryl and heteroaryl chlorides. This method was shown to be applicable to both electron-rich and electron-poor aryl chlorides furnishing good yields in almost all cases.

**Comment:** This new C–H activation–cross-coupling sequence has a very high practical value for the syntheses of biologically active compounds. A number of heterocycles are shown to be directly functionalizable by C–H activation. The possibility of their cross-coupling with the readily available aryl chlorides which are cheaper than their bromide or iodide equivalents is of considerable economic interest.

**SYNFACTS Contributors:** Paul Knochel, Tobias Thaler
Synfacts 2007, 7, 0743-0743 Published online: 22.06.2007
**DOI:** 10.1055/s-2007-968645; **Reg-No.:** P06907SF



**Category**
Metal-Mediated Synthesis

**Key words**
palladium
arylation
electron-rich heterocycles
aryl chlorides