Corrigendum

Copper-Catalyzed Direct C-Arylation of Heterocycles with Aryl Bromides: Discovery of Fluorescent Core Frameworks

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The authors would like to correct the following claims made in their article which misrepresent data that was published prior to our work.

1) It was claimed that the system previously developed by others is efficient only for reactions with aryl iodides. However, it has been previously shown that arylation of heterocycles by aryl bromide is possible with their system.[1] Additionally, multiple examples of the arylation of electron-deficient arenes by aryl bromides have been reported, and the method employs the exact reaction conditions which were used for the arylation of electron-rich heterocycles.[1,2] Even activated aryl chlorides have been shown to be reactive for copper-catalyzed arylation. Hence, the claim that the previously reported system is effective only with aryl iodides is incorrect.
2) It was claimed that regioselectivity and functional-group tolerance of the previously reported method[1,2] are compromised because of the use of strong bases, and that the method described is compatible with functional groups such as esters, cyanos, aldehydes, and others. However, it has been previously demonstrated that the method is compatible with most of these functional groups.[1,2] Hence, the claim of improved functional group tolerance is incorrect.
3) The prior use of K_3PO_4 base in copper-catalyzed arylations was overlooked, and the reaction conditions that were reported are almost identical to the ones reported earlier.[1] Catalytic CuI/phenanthroline in combination with ArBr in DMF/xylene solvent was shown to be efficient for the arylation of electron-deficient arenes.[1,2] Hence, the claims of developing a new catalytic system are incorrect.

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[1] H.-Q. Do, R. K. M. Khan, O. Daugulis, *J. Am. Chem. Soc.* **2008**, *130*, 15185.
[2] H.-Q. Do, O. Daugulis, *J. Am. Chem. Soc.* **2008**, *130*, 1128.