Fused pyrrole derivatives

R 0160

DOI: 10.1002/chin.201139093

39- 093

Cascade Intramolecular N-Arylation/Intermolecular Carboamination Reactions for the Construction of Tricyclic Heterocycles. — Racemic and chiral heterocyclic skeletons are constructed using a proper choice of Pd salt and a ligand. The reaction

sequence of aromatic and heteroaromatic chlorides and unsaturated amine substrates proceeds with generation of two rings and three bonds in one step. — (LEMEN, G. S.; WOLFE*, J. P.; *Org. Lett.* 13 (2011) 12, 3218-3221,

<http://dx.doi.org/10.1021/ol201123b>; Dep. Chem., Univ. Mich., Ann Arbor, MI 48109, USA; Eng.) — R. Steudel

A): NaOtBu, Pd(OAc)₂/CDP (1:1) (cat.), toluene, 100°C

B): NaOtBu, Pd₂(dba)₃/PCy₃·HBF₄ (1:2) (cat.), toluene, 100°C