C–H Zincation of (Hetero)Arenes Followed by Copper-Catalyzed Amination

**Significance:** Wang and co-workers describe a direct amination of (hetero)arenes by C–H zinca-
tion followed by copper-catalyzed electrophilic amination using O-acyl hydroxylamines. A broad
substrate scope, good functional-group tolerance, and mild reaction conditions were demonstrated.

**Comment:** The C–H zinca-tion was achieved applying either Zn(tmp)$_2$ or tmpZnCl·LiCl (tmp = 2,2,6,6-tetramethylpiperidyl) at room temperature. The obtained products were isolated in good to excellent yields.

**Selected examples:**

- (Het)Ar–H
  1. Zn(tmp)$_2$ (1.0 equiv)
  2. BzO–N$_2$BzO (1.0 equiv)
  Cu(OAc)$_2$ (10 mol%) THF, r.t.
  [Chemical structure]
  96% yield

- (Het)Ar–H
  1. tmpZnCl·LiCl (1.0 equiv)
  2. BzO–N$	ext{R}_1$
  Cu(OAc)$_2$ (10 mol%) THF, r.t.
  [Chemical structure]
  92% yield

- (Het)Ar–H
  1. Zn(tmp)$_2$ (1.0 equiv)
  2. BzO–N$_2$BzO (1.0 equiv)
  Cu(OAc)$_2$ (10 mol%) THF, r.t.
  [Chemical structure]
  90% yield