**Synthesis of (R)-Tolterodine**

Significance: (R)-Tolterodine is a muscarinic antagonist used for the treatment of urinary incontinence. Key steps in the short synthesis depicted are (1) a copper-catalyzed addition (hydroarylation) of phenylboronic acid to an alkynylnitrile \( \text{(C \rightarrow D)} \) and (2) a CuH-catalyzed asymmetric conjugate reduction of an \( \alpha,\beta \)-unsaturated nitrile \( \text{(D \rightarrow E)} \).

Comment: Copper-catalyzed hydroarylation of alkynoates had been reported previously by Y. Yamamoto, N. Kirai and Y. Harada (Chem. Commun. 2008, 2010).