Enantioselective Oxytrifluoromethylation of Alkenes

**Significance:** A highly enantioselective copper-catalyzed radical oxytrifluoromethylation of alkenes, affording CF₃-substituted furans, is described. Interestingly, an achiral pyridine ligand increased the enantioselectivity as a consequence of the stabilization of high-valent copper species.

**Comment:** On the basis of mechanistic experiments, the authors suggest that the CF₃ radical is generated from Togni’s reagent through activation by the chiral phosphoric acid. Various functional groups are tolerated under the reaction conditions.