**Asymmetric Redox-Relay Oxidative Heck Arylations**

**Significance:** The generation of stereogenic centers which are remote to functional groups via carbon–carbon bond formation is currently an interesting topic in organic chemistry. Herein, the authors report a highly efficient palladium-catalyzed oxidative Heck reaction of alkenyl alcohols furnishing optical active aldehydes via a redox-relay process.

**Comment:** The authors demonstrated that the strategy of the redox-relay process is applicable even on an η1-position, for the site-selective and highly enantioselective arylation of alkenyl alcohols. Additionally, preliminary mechanistic investigations are conducted for rationalizing the stereochemical course of the palladium- and copper-catalyzed reaction.