Enantioselective Palladium-Catalyzed Dearomative Heck Reaction

**Significance:** The authors report an enantioselective palladium-catalyzed dearomative Heck process, which affords a variety of spiroheterocycles and benzo-fused heterocycles in high yields and enantioselectivities.

**Comment:** Various sets of conditions were developed, depending on the heterocyclic scaffold employed. A remarkable number of examples (88) were demonstrated, and the synthetic utility of the products was displayed by a series of derivatizations.

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**Reaction schemes:**
88 examples, up to 91% yield; up to 99% ee

**Selected examples:**
37 examples, up to 95% yield; up to 99% ee

- 87% yield, 99% ee

- 91% yield, 94% ee

- 66% yield, 94% ee

- 78% yield, 91% ee

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**Key words**
palladium catalysis
dearomatization
Heck reaction