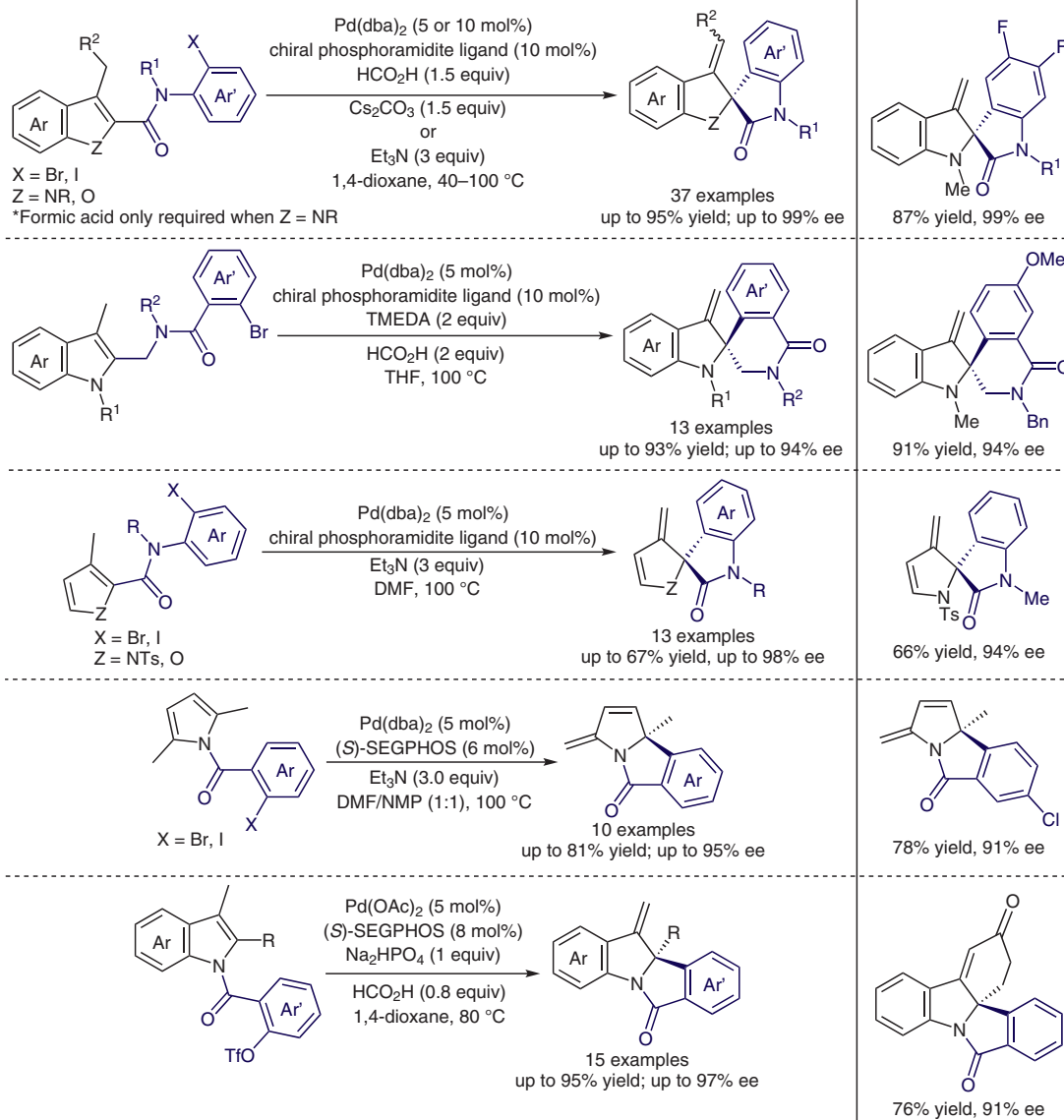


Enantioselective Palladium-Catalyzed Dearomative Heck Reaction

Reaction schemes:

88 examples, up to 91% yield; up to 99% ee

Selected examples:



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.