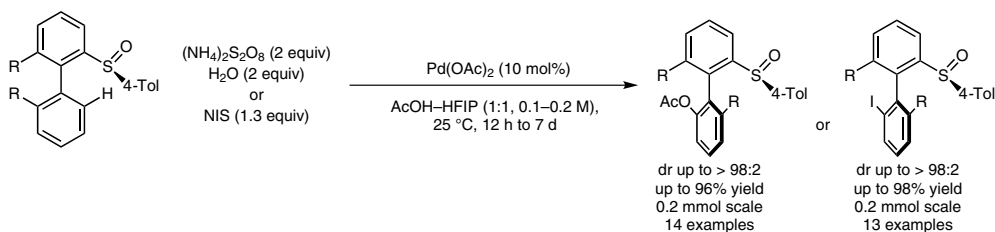
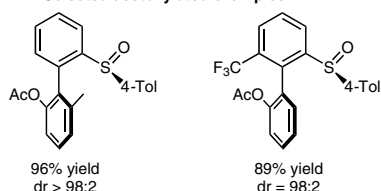


C. K. HAZRA, Q. DHERBASSY, J. WENCEL-DELORD,\* F. COLOBERT\* (UNIVERSITÉ DE STRASBOURG, FRANCE)  
 Synthesis of Axially Chiral Biaryls through Sulfoxide-Directed Asymmetric Mild C–H Activation and Dynamic Kinetic Resolution  
*Angew. Chem. Int. Ed.* **2014**, *53*, 13871–13875.

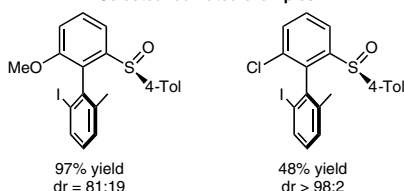
# Axially Chiral Biaryl Compounds via Dynamic Kinetic Resolution



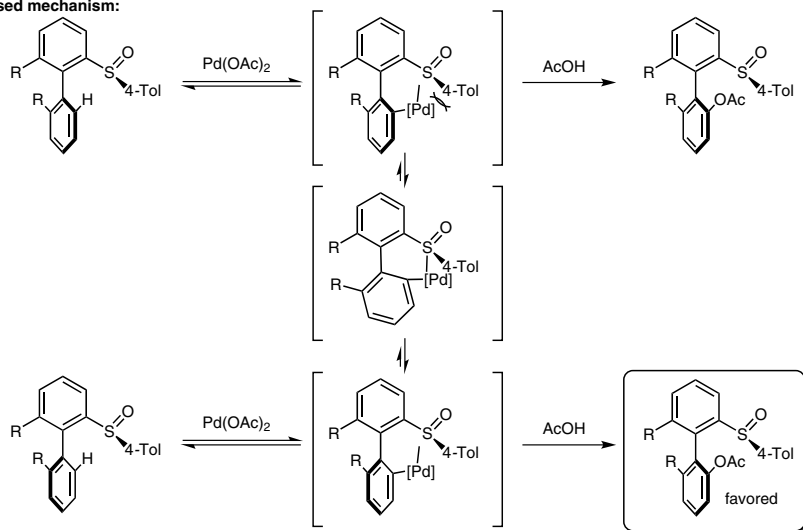
Selected acetoxyated examples:



Selected iodinated examples:



Proposed mechanism:



**Significance:** Axially chiral biaryl motifs are privileged structures as ligands for transition-metal catalysis. The authors present a dynamic kinetic resolution of racemic biaryls with a palladium catalyst using point chirality of a sulfoxide directing group.

**Comment:** Although some substrates were slow to react (up to 7 days), good yields and stereoselectivities were observed. Treatment of the products with *t*-BuLi at –90 °C led to an axially stable aryllithium species, which was trapped with CO<sub>2</sub>.

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