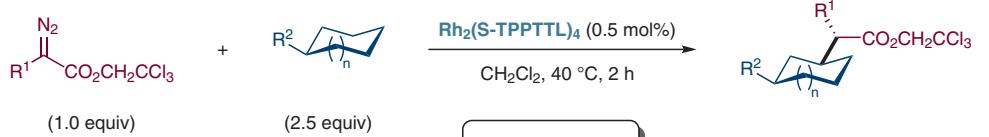


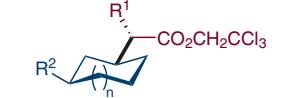
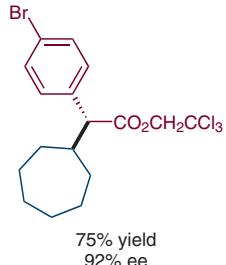
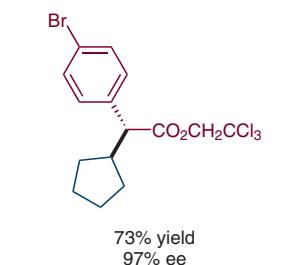
## Cyclohexane Desymmetrization via Rhodium-Catalyzed C–H Activation

Category
Metals in Synthesis
Key words
desymmetrization
C–H activation
stereoselectivity

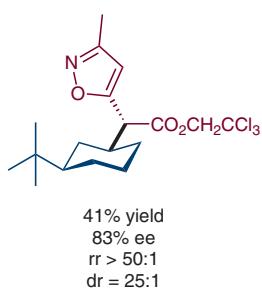
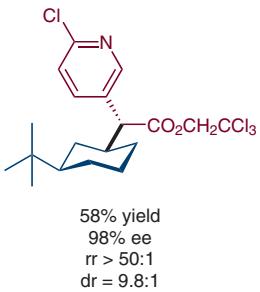
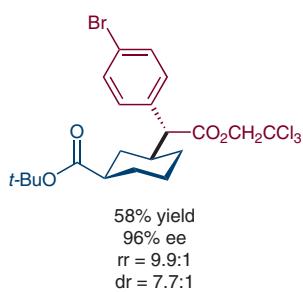


R<sup>1</sup> = Ar, Het(Ar)  
R<sup>2</sup> = H, Alk  
n = 0, 1, 2

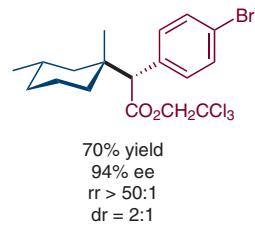
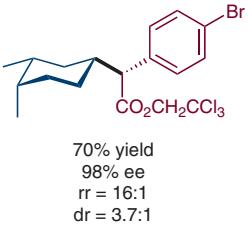
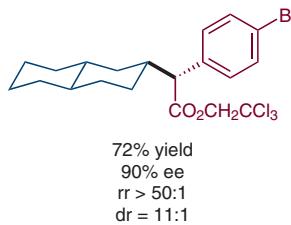
### Selected examples:



Rh<sub>2</sub>(S-TPPTTL)<sub>4</sub>



### Disubstituted cyclohexanes:



**Significance:** The authors report a site- and stereoselective desymmetrization of cyclohexanes via a rhodium-complex-catalyzed C–H functionalization.

**Comment:** The method does not require any directing group and can be applied to unactivated C–H bonds, which presents a limitation for similar methods.