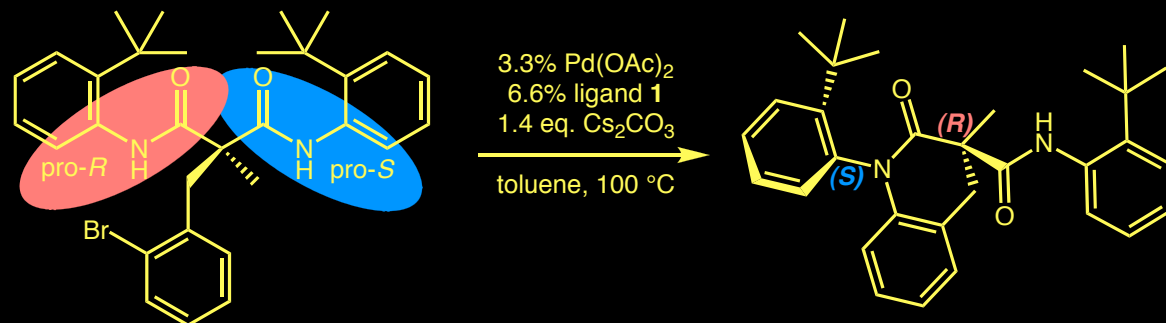


# Development of Enantioselective Nitrogen Arylation Reactions

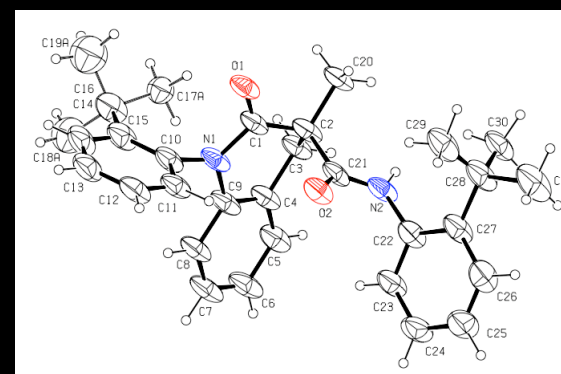
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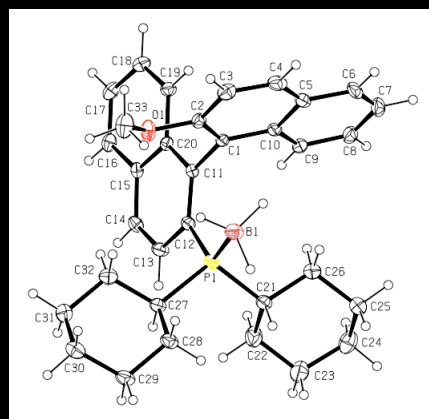
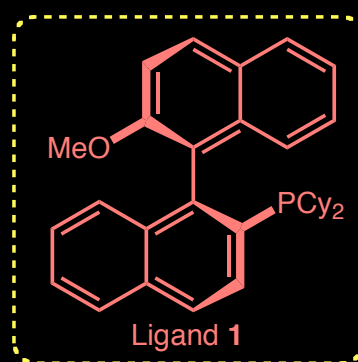


achiral, with two enantiotopic amide groups

chiral center and chiral axis isolated as single diastereomer in 99% yield and 88% enantiomeric excess



X-Ray crystal structure of cyclized product, confirming configuration of chiral center and axis



X-Ray crystal structure of borane adduct of ligand 1. This adduct is stable to air, moisture and even column chromatography