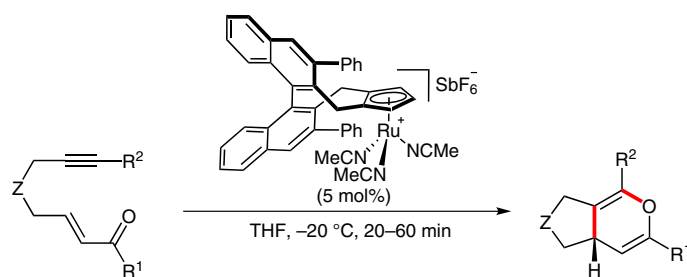
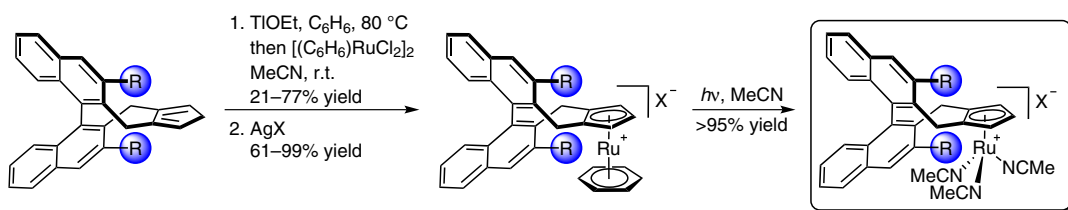
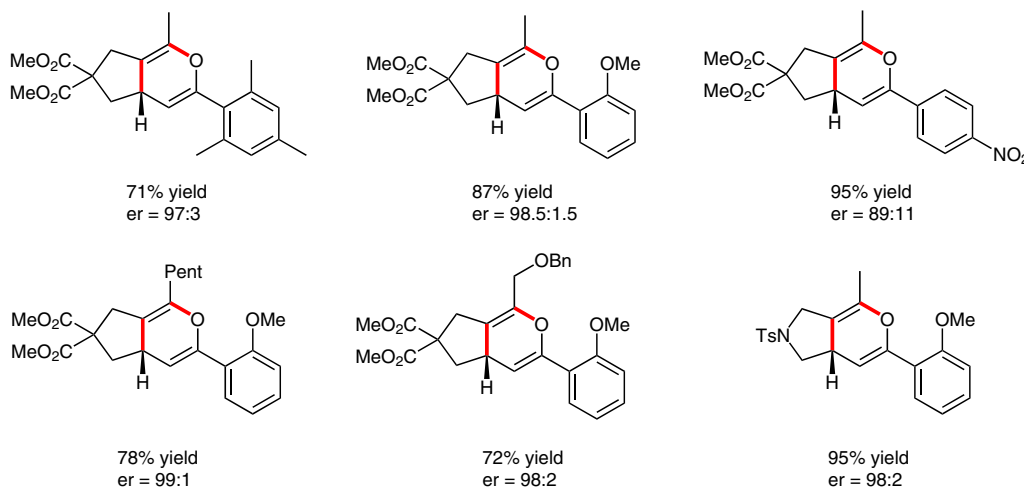


Ruthenium-Catalyzed Asymmetric Yne–Enone Cyclizations

Synthesis of the chiral Cp^XRu^{II} complexes:



Selected examples:



Significance: The authors report asymmetric yne–enone cyclizations catalyzed by chiral cationic Cp^XRu^{II} complexes. A variety of 4*H*-pyrans were obtained in good yields ($\leq 95\%$) and high enantioselectivities ($er \leq 99:1$).

Comment: A new class of chiral Cp^XRu^{II} complexes was synthesized that provide opportunities for the development of synthetically valuable enantioselective transformations.