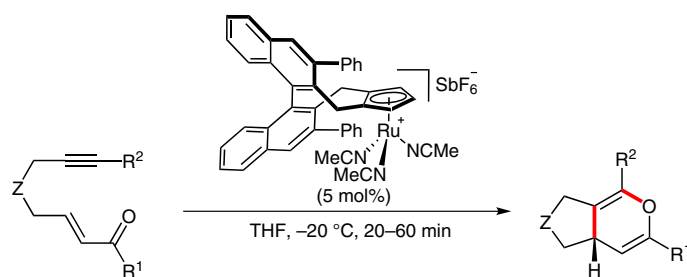
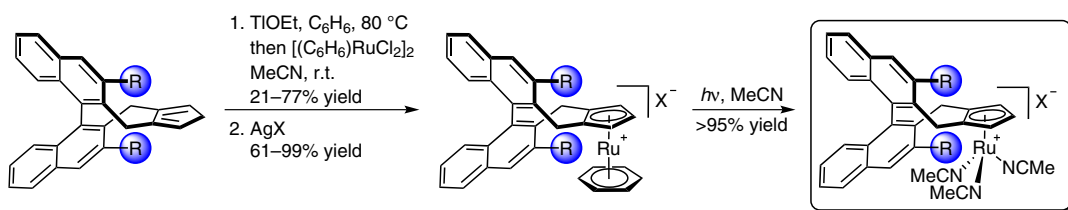
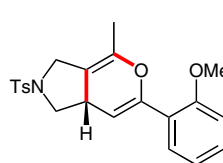
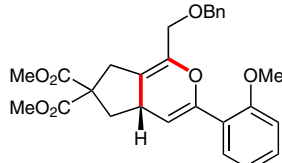
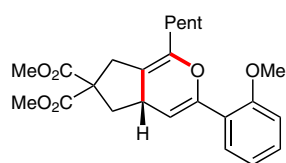
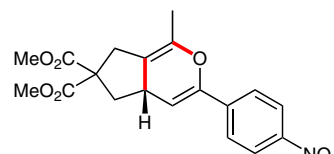
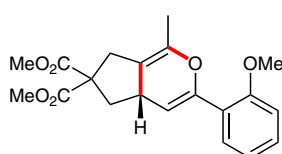
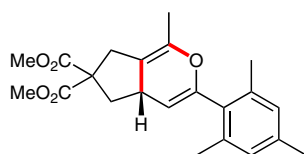


## Ruthenium-Catalyzed Asymmetric Yne–Enone Cyclizations

### Synthesis of the chiral Cp<sup>X</sup>Ru<sup>II</sup> complexes:



### Selected examples:



**Significance:** The authors report asymmetric yne–enone cyclizations catalyzed by chiral cationic Cp<sup>X</sup>Ru<sup>II</sup> 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<sup>X</sup>Ru<sup>II</sup> complexes was synthesized that provide opportunities for the development of synthetically valuable enantioselective transformations.