Ruthenium-Catalyzed Asymmetric Yne–Enone Cyclizations

Significance: The authors report asymmetric yne–enone cyclizations catalyzed by chiral cationic Cp²Ru(II) complexes. A variety of 4H-pyrans were obtained in good yields (≤95%) and high enantioselectivities (er ≤ 99:1).

Comment: A new class of chiral Cp²Ru(II) complexes was synthesized that provide opportunities for the development of synthetically valuable enantioselective transformations.

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