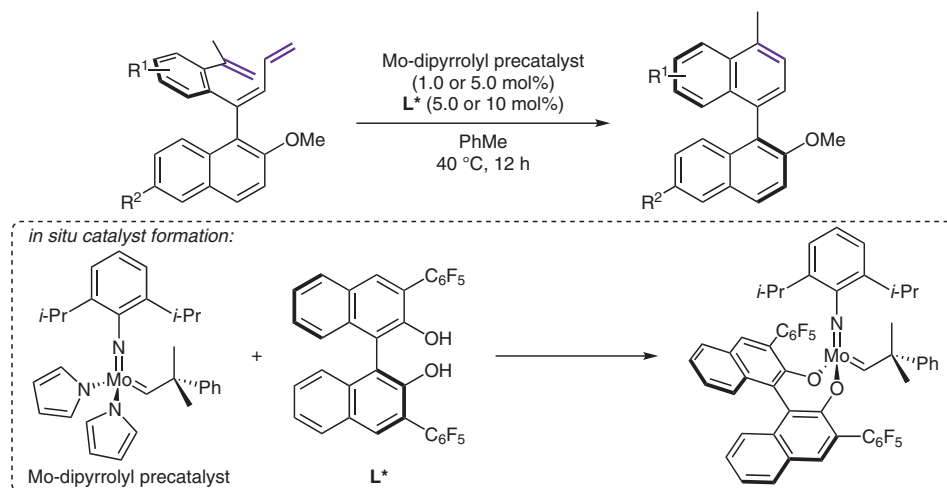
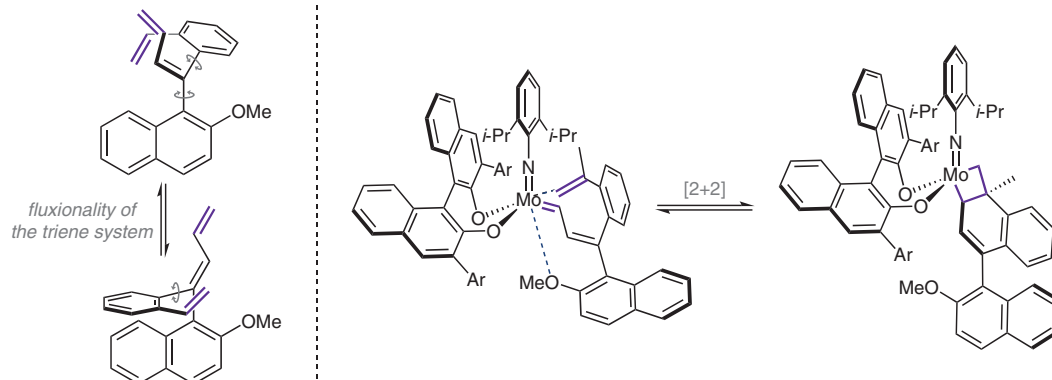


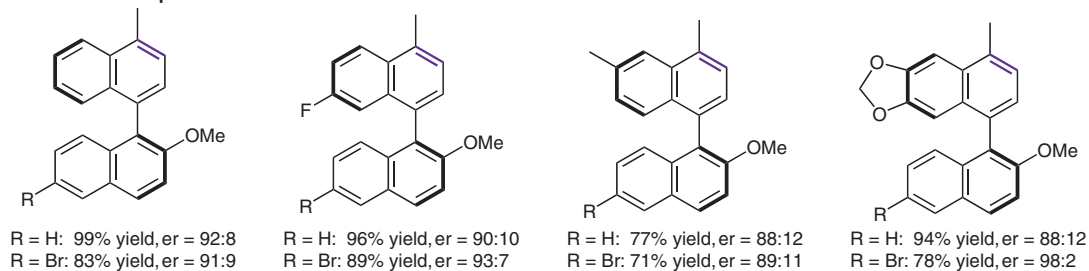
Atroposelective Ring-Closing Metathesis of Stereodynamic Trienes to Access Chiral Binaphthalenes



Proposed stereoselectivity model:



Selected examples:



Significance: An atroposelective molybdenum-catalyzed alkene metathesis under arene formation is disclosed. This reaction converts fluxional triene substrates into binaphthalene atropisomers with high enantioselectivities.

Comment: In contrast to classical ring-closing metathesis, the aromatization of the triene substrate is an irreversible process. The methoxy substituent as a coordinating group proved to be crucial for the high enantioselectivity.