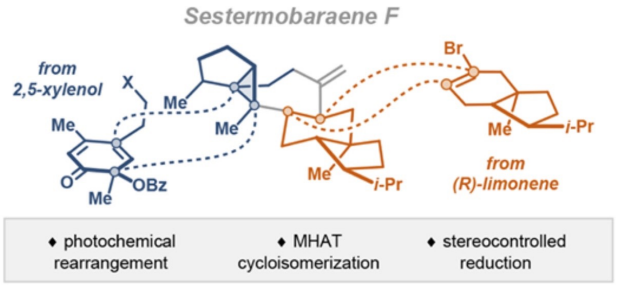
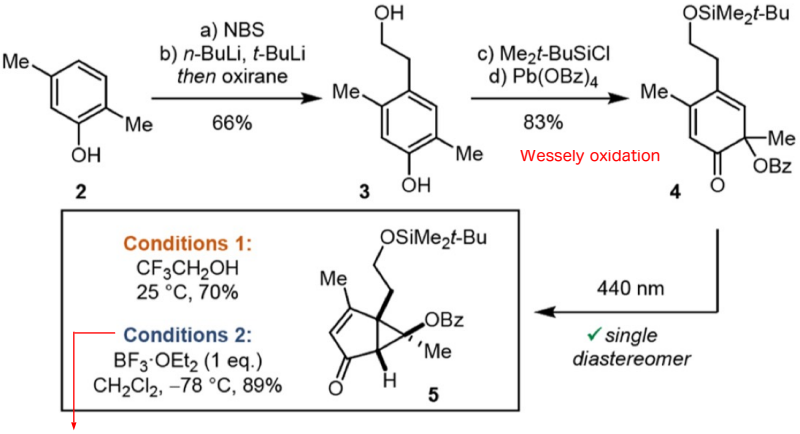
Enantioselective Total Synthesis of Sestermobaraene F

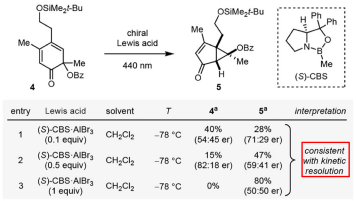
Manuel J. Scharf, Sander Folkerts, Moritz E. Hansen, Lorenzo A. A. Fitze, Douglas Strasoldo-Graffemberg, Claudia S. Zhang, and Erick M. Carreira*

J. Am. Chem. Soc. 2026, 148, 45935–45941.



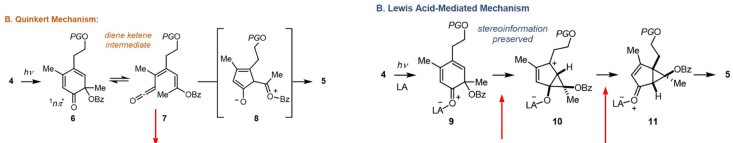


reduced formation of aromatic side products



Corey–Bakshi–Shibata catalyst

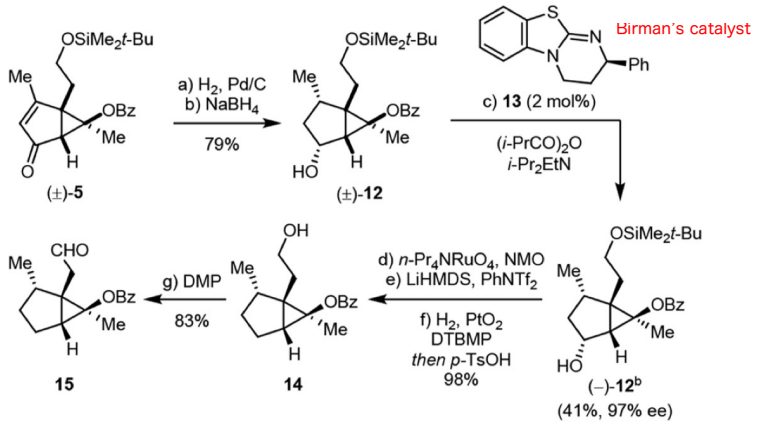
the possibility for the development of a photochemical dynamic kinetic resolution

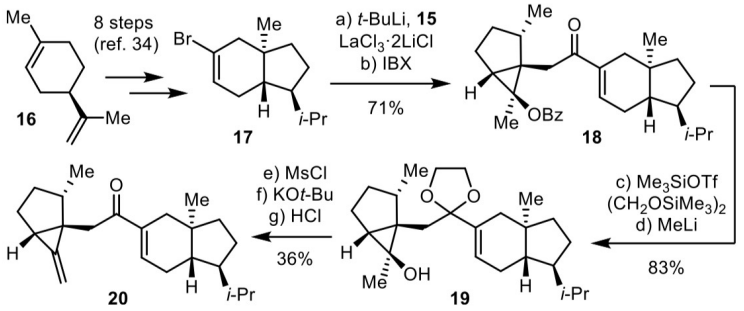


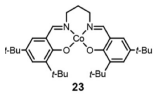
chiral (helical) conformation?

akin to the Nazarov reaction

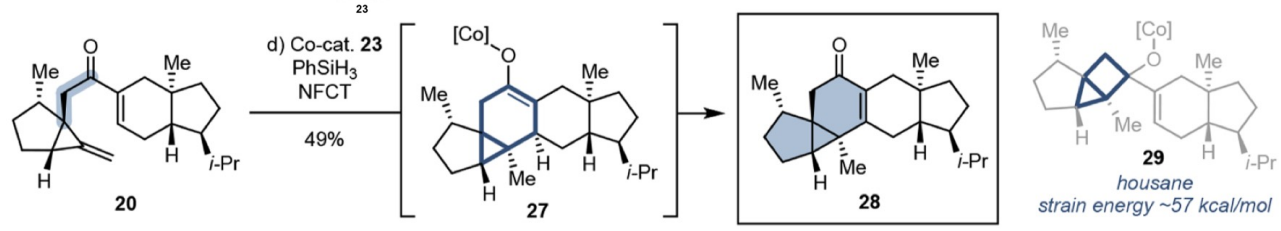
stereoinvertive suprafacial [1,4]-shift





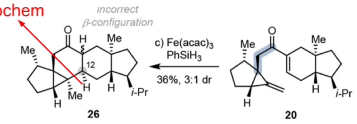


cycloisomerization

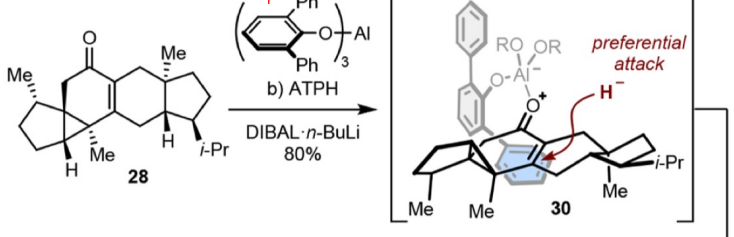


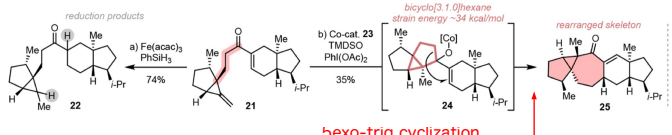
Yamamoto's sterically demanding Lewis acid.

undesired stereochem



+ uncyclized products

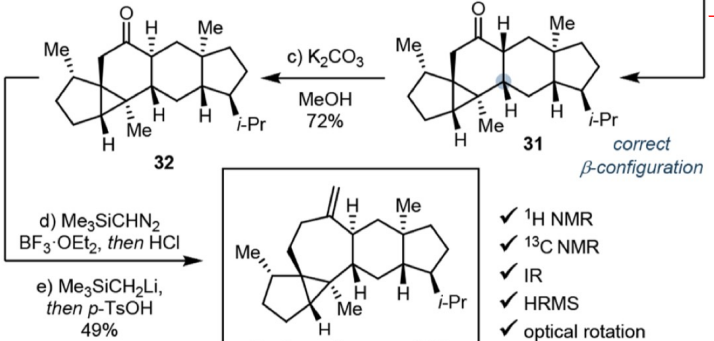




5exo-trig cyclization

reminiscent of a Dowd–Beckwith rearrangement

= 7endo-trig cyclization



hydrogenation using Pd/C, Rh/C, or Pt/C , 1,2-reduction of ketone, Crabtree's catalyst, Birch reduction, SmI2 with additives (TPPA) or PhSH).,Cu-, Mn catalyzed reduction all unsuccess