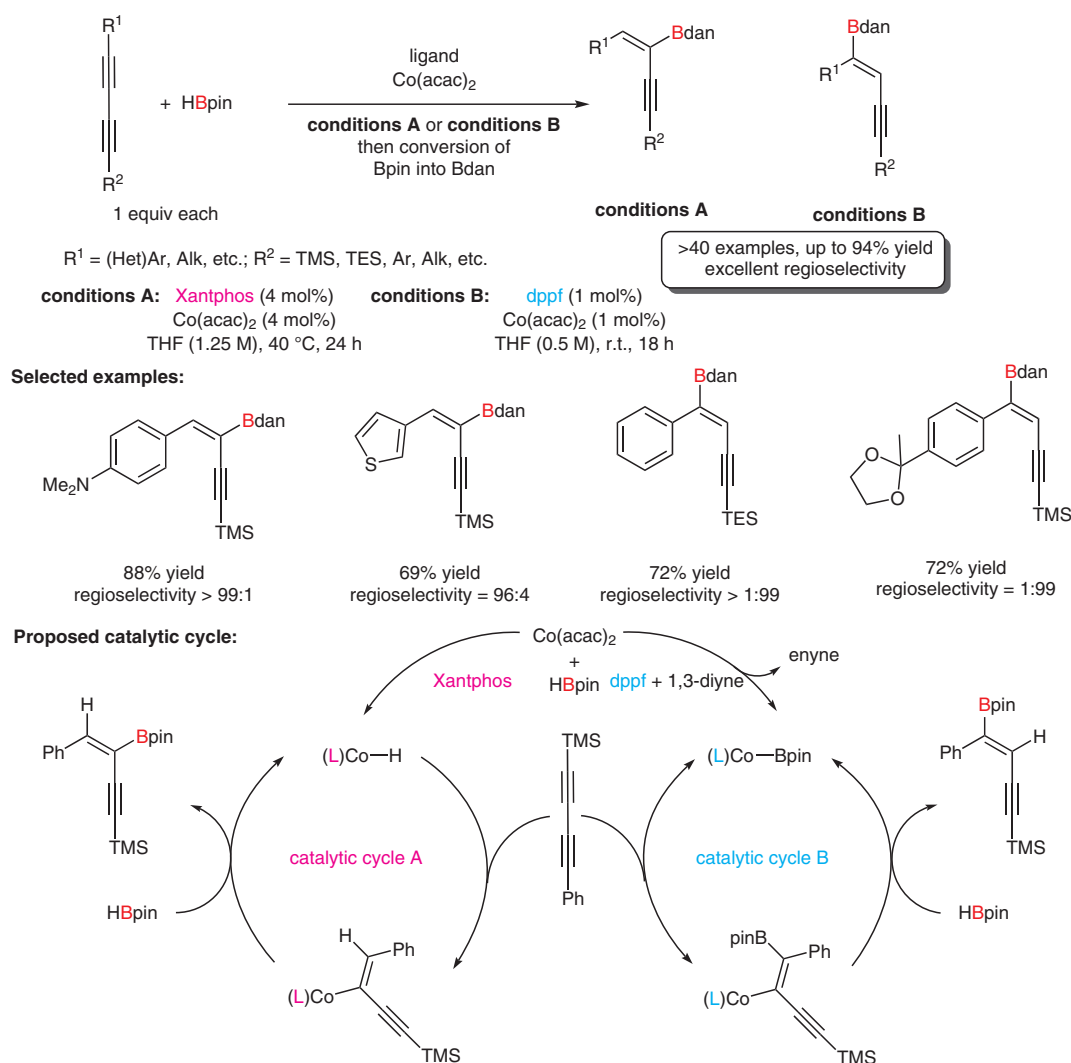


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Cobalt-Catalyzed Regiodivergent Stereoselective Hydroboration of 1,3-Diyne to Access Boryl-Functionalized Enynes
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Regiodivergent Hydroboration of 1,3-Diyne



Significance: Ge and co-workers report a regio-divergent cobalt-catalyzed hydroboration of functionalized asymmetrical and symmetrical 1,3-diyne leading to functionalized alkenes in good to excellent yields. The regioselectivity of the reaction could be controlled by modification of the ligand and the reaction conditions.

Comment: The authors also performed mechanistic studies, such as deuterium labeling experiments, indicating that the regioselectivity depends on the formation of either a cobalt hydride species or a cobalt boryl intermediate, which participates in the catalytic cycle.

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