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Direct Cross-Couplings of Propargylic Diols
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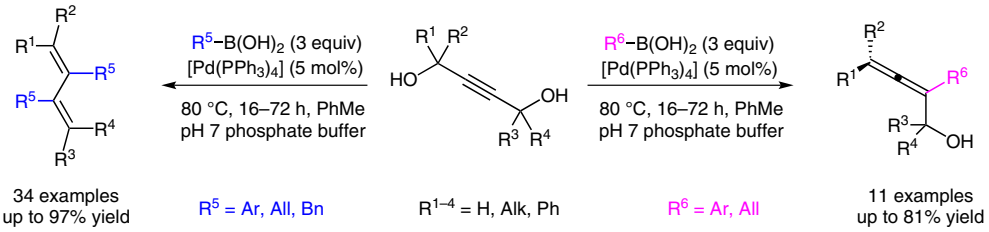
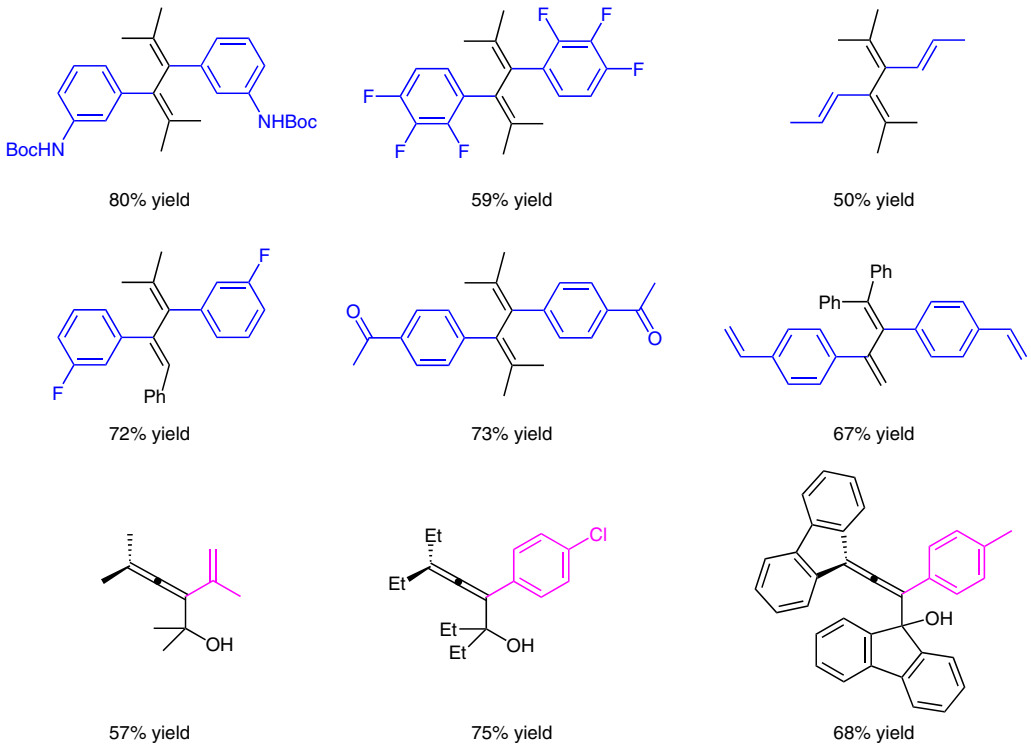
Direct Cross-Couplings of Propargylic Diols



Selected examples:



Significance: The authors report a step-economical and functional group tolerant method for the synthesis of tetra-, penta-, and hexa-substituted 1,3-butadienes from underivatized propargylic diols and aryl or alkenyl boronic acids in moderate to high yields.

Comment: The reported method can be applied to remarkably short syntheses of highly substituted benzofulvenes and aryl indenes through treatment of the cross-coupled products with acid.

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Category
Metal-Mediated Synthesis

Key words
propargyl diols
boron
Suzuki–Miyaura coupling