Direct Cross-Couplings of Propargylic Diols

**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.