

Frontiers in Chemistry Lectureship

Prof. Robert Maleczka

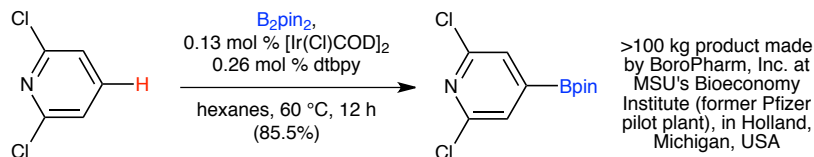
Michigan State University

“C–H Borylations: Green Chemistry That Inspired Green Ambitions”

**4:00 PM, November 3, 2015,
1260 Chem. Bldg., WMU; Reception at 3:30 PM**



Ir-catalyzed C–H borylations can eliminate the need for halogens, alkylolithiums, and/or cryogenic conditions for the syntheses of cross-coupling partners. Moreover, their chemoselectivity and atom economy allows for the combination of catalytic borylations with subsequent chemical events. Given the prominent role cross-couplings play in the preparation of pharmaceuticals, agrochemicals, and organic electronic materials, industry has shown considerable interest in such C–H activation processes. Indeed, the Pharmaceutical Roundtable of the American Chemical Society's Green Chemistry Institute deemed cross-couplings that avoid haloaromatics as one of their top aspirational reactions.



>100 kg product made by BoroPharm, Inc. at MSU's Bioeconomy Institute (former Pfizer pilot plant), in Holland, Michigan, USA

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