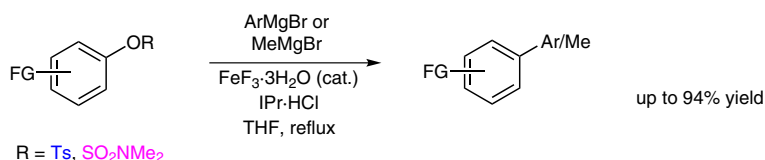
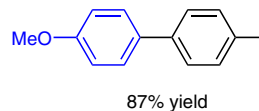
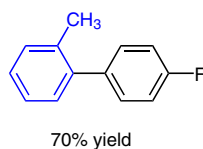
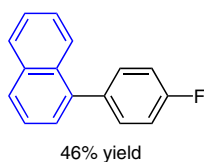
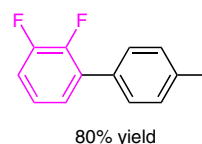
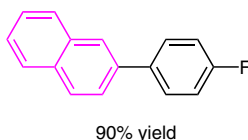
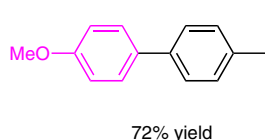


Aryl Sulfamate and Tosylate Cross-Coupling with Aryl Grignard Reagents



Selected examples:



Significance: The authors report the first iron-catalyzed direct coupling of aryl sulfamates and tosylates with aryl Grignard reagents. Interestingly, fluoride counterions were found to increase the yields of the desired products. FeF₃ does not need to be reduced before the reaction, and in fact, reactions performed without the pre-reduction proceed better in almost all cases.

Comment: The reaction was shown to tolerate a number of iron pre-catalysts with no significant homocoupling of the aryl Grignard. Studies to understand the reaction mechanism better are underway.