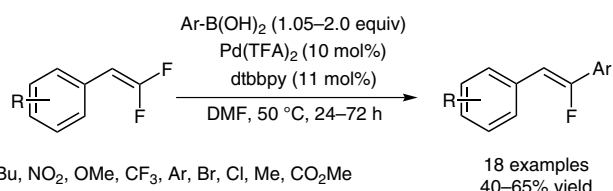
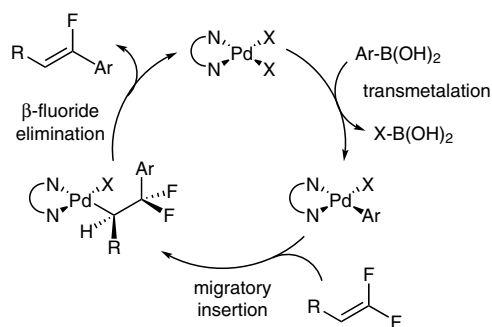


R. T. THORNBURY, F. D. TOSTE* (UNIVERSITY OF CALIFORNIA, BERKELEY, USA)
Palladium-Catalyzed Defluorinative Coupling of 1-Aryl-2,2-Difluoroalkenes and Boronic Acids: Stereoselective Synthesis of Monofluorostilbenes
Angew. Chem. Int. Ed. **2016**, *55*, 11629–11632.

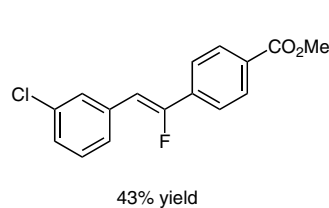
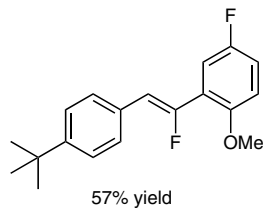
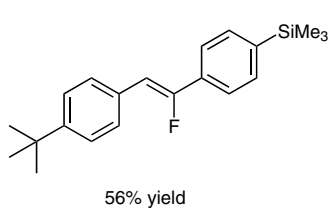
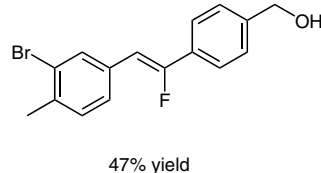
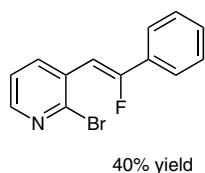
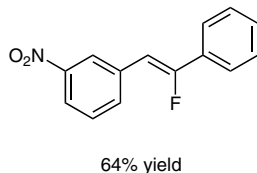
Defluorinative Coupling of 1-Aryl-2,2-Difluoroalkenes and Boronic Acids



Proposed mechanism:



Selected examples:



Significance: The authors report a palladium-catalyzed defluorinative coupling of 1-aryl-2,2-difluoroalkenes with boronic acids with a broad functional-group tolerance, moderate yields and excellent diastereoselectivity.

Comment: The utility of the reported method was demonstrated by the synthesis of a Gleevec[®] amide isostere.

SYNFACTS Contributors: Paul Knochel, Marthe Ketels
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Synthesis

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boronic acids

fluorine