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.

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 Synfacts 2016, 12(11), 1181 Published online: 18.10.2016
 DOI: 10.1055/s-0036-1589316; Reg-No.: P12416SF

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Category

Metal-Mediated
Synthesis

Key words

palladium catalysis

boronic acids

fluorine

Synfact
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