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

**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.

**Proposed mechanism:**

- β-fluoride elimination
- migratory insertion
- transmetalation
- elimination

**Selected examples:**

- 64% yield
- 40% yield
- 47% yield
- 56% yield
- 57% yield
- 43% yield