**BF₃-Mediated Coupling of Organotrifluoroborates and Acetals**

*Synthesis of Dialkyl Ethers from Organotrifluoroborates and Acetals*

**J. Am. Chem. Soc. 2009, 131, 18057-18059.**

**Significance:** A novel C–C bond formation approach using organotrifluoroborates for the synthesis of unsymmetrically substituted dialkyl ethers has been developed.

**Comment:** The reaction is general and well-tolerant of functional groups. Sterically demanding and sensitive dialkyl ethers which would be difficult to prepare via the common Williamson ether synthesis could be easily accessed.

**Mechanistic proposal:**

Selected examples:

- 71% yield
- 65% yield
- 74% yield
- 40% yield

Selected examples:

- 80% yield
- 56% yield
- 52% yield
- 45% yield
- 88% yield
- 86% yield
- 67% yield
- 98% yield

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