**Synthesis of Dialkyl Ethers from Organotrifluoroborates and Acetals**


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

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

- **Selected examples:**
  - 88% yield
  - 86% yield
  - 67% yield
  - 98% yield

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