Enantioselective Addition of Organoboron Reagents to Fluoroketones

**Significance:** Hoveyda and co-workers have developed an efficient catalytic method for the addition of allyl and allenyl organoboron reagents to fluoroketones, leading to trifluoromethyl-substituted tertiary alcohols in up to 98% yield.

**Comment:** The versatility of the presented method is illustrated in an enantioselective route to the antiparasitic drug fluralaner (Bravecto, Merck).

Selected examples:

**Method 1**
- **G = CF₃, C₂F₅, C₃F₅**
- **R² = various substituents**
- **Method 1**
- 11 examples
- 85–98% yield (er up to 99:1)

**Method 2**
- **G = CF₃, C₂F₅, C₃F₅**
- **R² = H, Me, Cl**
- 16 examples
- 71–98% yield (er up to 99:1)