Enantioselective Fluoroallylboration of Aldehydes

**Significance:** An enantioselective fluoroallylboration of a variety of aldehydes with $B$-(3,3-difluoroallyldiisopinocampheylborane has been disclosed. The resulting 2,2 gem-difluorinated homoallylic alcohols have been obtained in good yield and high enantioselectivity.

**Comment:** The described reaction proceeds in one pot. After the synthesis of $B$-(3,3-difluoroallyldiisopinocampheylborane out of freshly prepared 1,1-difluoroallene, the aldehyde is added directly to the reaction mixture, followed by an oxidative workup.

**Selected examples:**

- 72% yield, 94% ee
- 71% yield, 93% ee
- 70% yield, 94% ee
- 76% yield, 97% ee
- 70% yield, 91% ee
- 69% yield, 92% ee