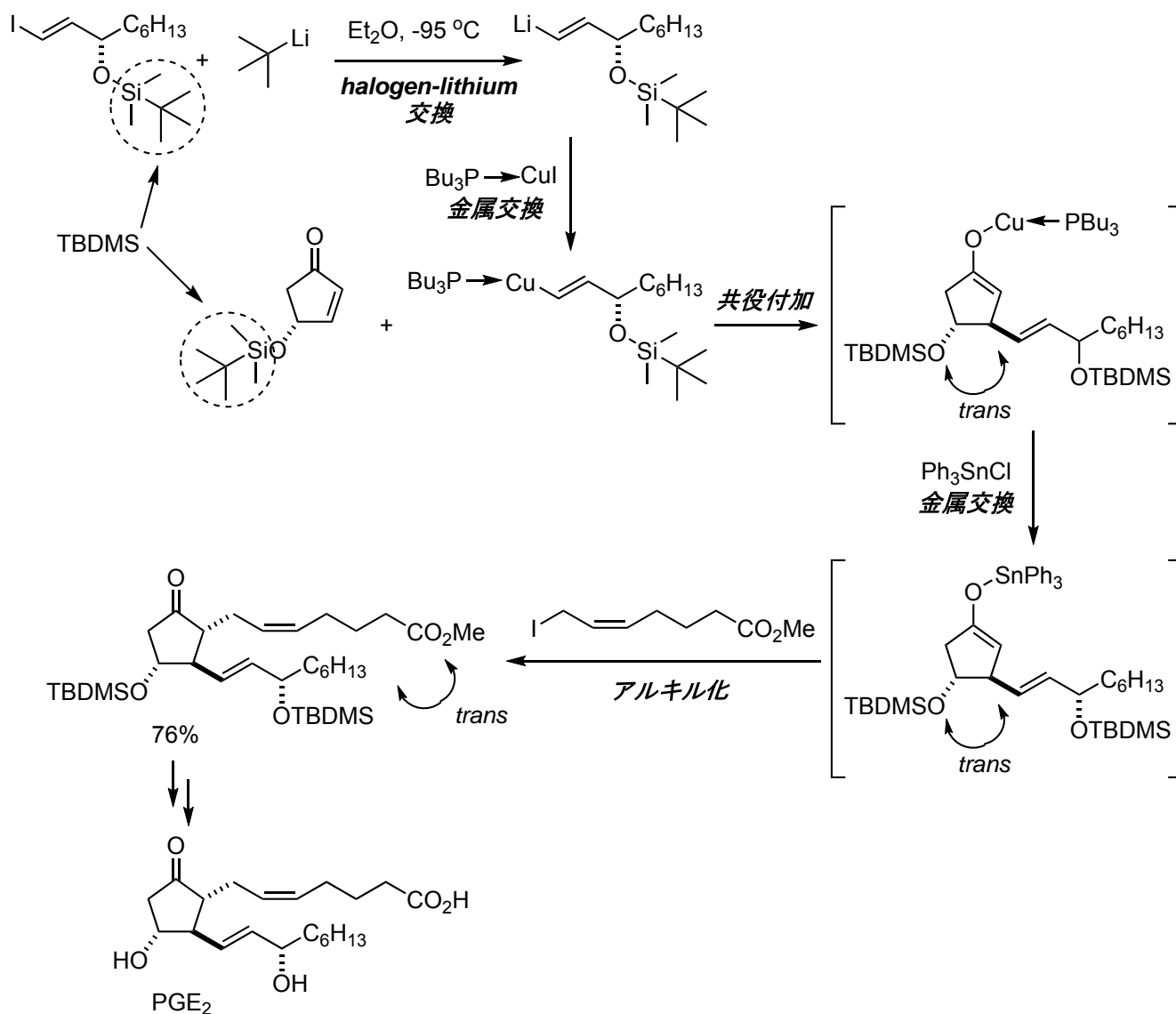


## 2. Cu触媒による共役付加

### Synthetic Application of Cu-Catalyzed Conjugate Addition

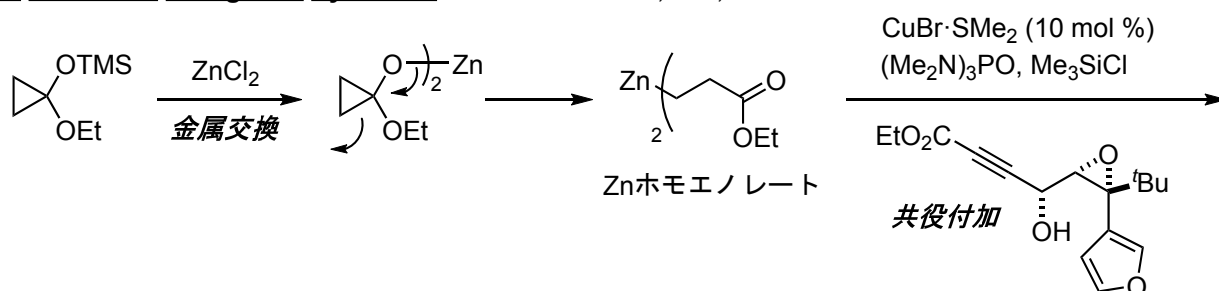
#### 1. Noyori's Prostaglandin Synthesis

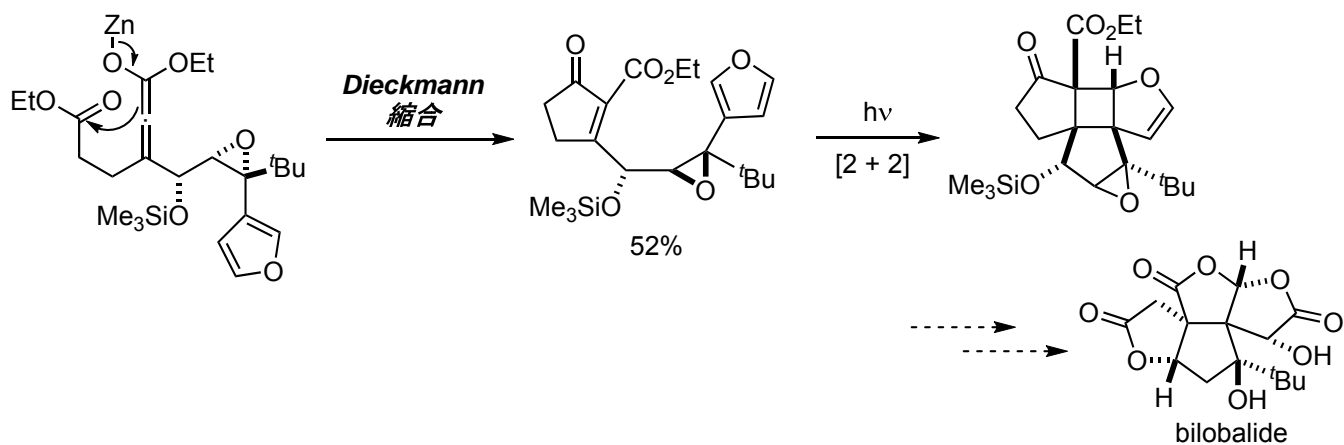
JACS 1988, 110, 4718.



#### 2. Crimmins' Ginkgolide Synthesis

JACS 1993, 115, 3146.





### 3. Charette's Lepadin B Synthesis

JACS 2008, 130, 13873.

