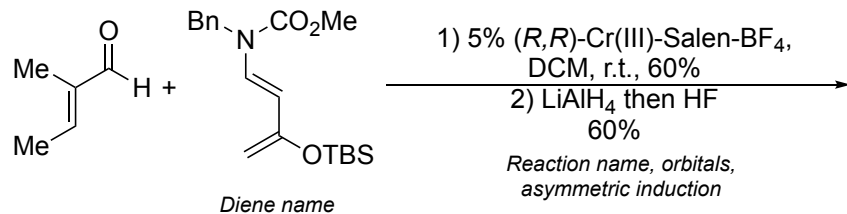


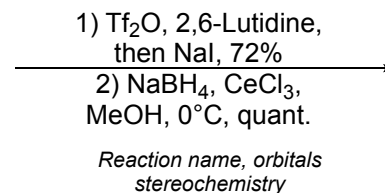
**Total synthesis of asnovolin E and other DMOA-Derived Spiromeroterpenoids**

J. Org. Chem. 2024, 89, 17, 11891–11908

- 4 cycles
- High oxidation states
- Spiro tetrahydrofuran chiral junction
- Fibronectin suppression factor

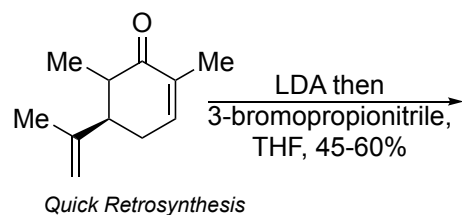


**1**

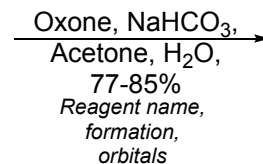


**2**

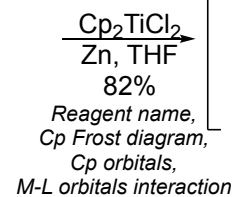
**2**  
Half-Chair



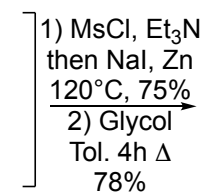
**3**



**4**



Chair TS



**5**

180° rotated chair

Frost circles  
Diagram

Orbitals interaction



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