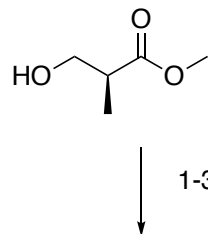


### Synthesis Challenge 113

*Bioinspired Total Synthesis of Curtachalasin B and Biosynthetically Related Cytochalasins*

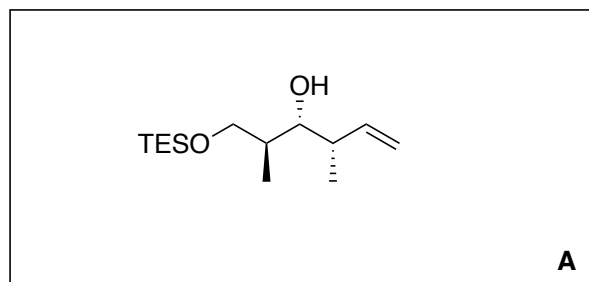
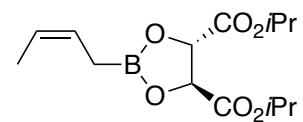
F. Gao, H. Wu, J. Zhang, P. Wang, J. Deng, *Angew. Chem. Int. Ed.* **2026**, *65*, e24740

doi.org/10.1002/anie.202524740



1-3

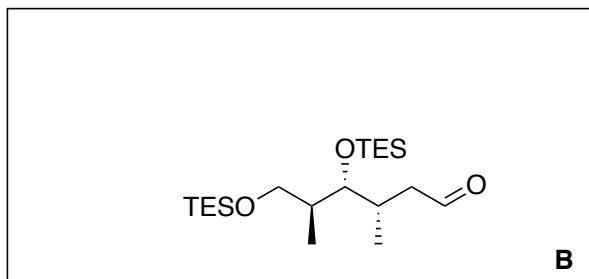
- 1) TESCI
- 2) DIBALH
- 3) I



**A**

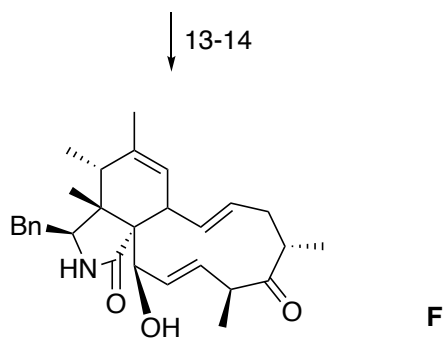
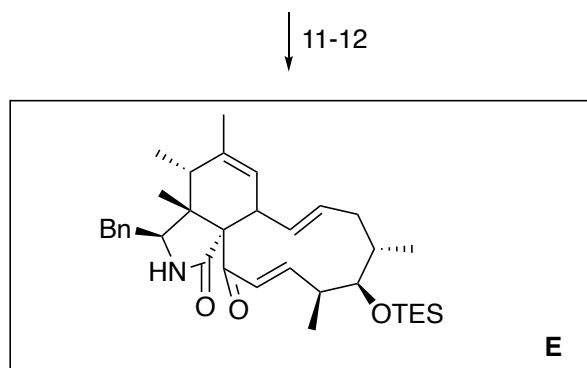
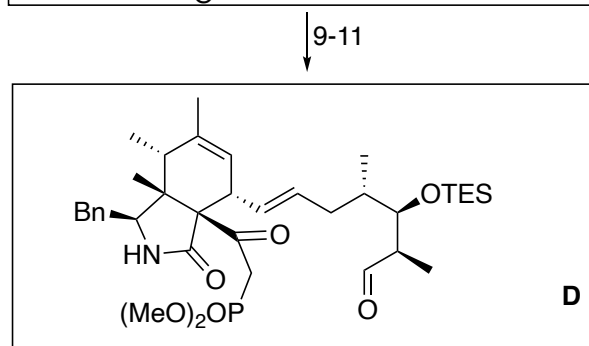
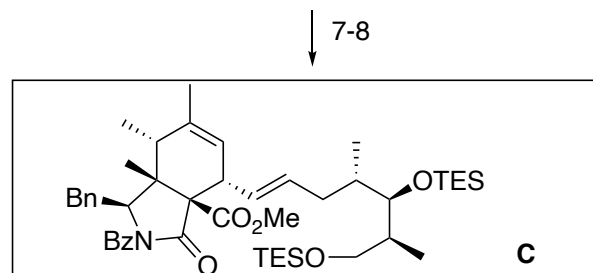
4-6

- 4) TESOTf
- 5) 9-BBN, then, H<sub>2</sub>O<sub>2</sub>
- 6) Dess-Martin-Periodinane (DMP)



**B**





7) **II**, *n*BuLi  
8) **III**

9) *n*BuLi, MePO(OMe)<sub>2</sub>  
10) Et<sub>3</sub>N<sup>+</sup><sub>3</sub>HF  
11) DMP

12) Zn(OTf)<sub>2</sub>, Et<sub>3</sub>N, TMEDA

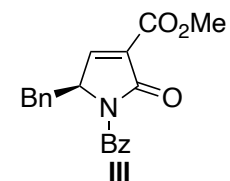
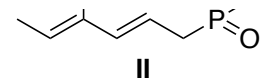
13) NaBH<sub>4</sub>, CeCl<sub>3</sub> · 7H<sub>2</sub>O

14) Ac<sub>2</sub>O

15) Et<sub>3</sub>N<sup>+</sup><sub>3</sub>HF

16) DMP

17) K<sub>2</sub>CO<sub>3</sub>, MeOH



Xylariasin C

Xylariasin A

Brunnesin C

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