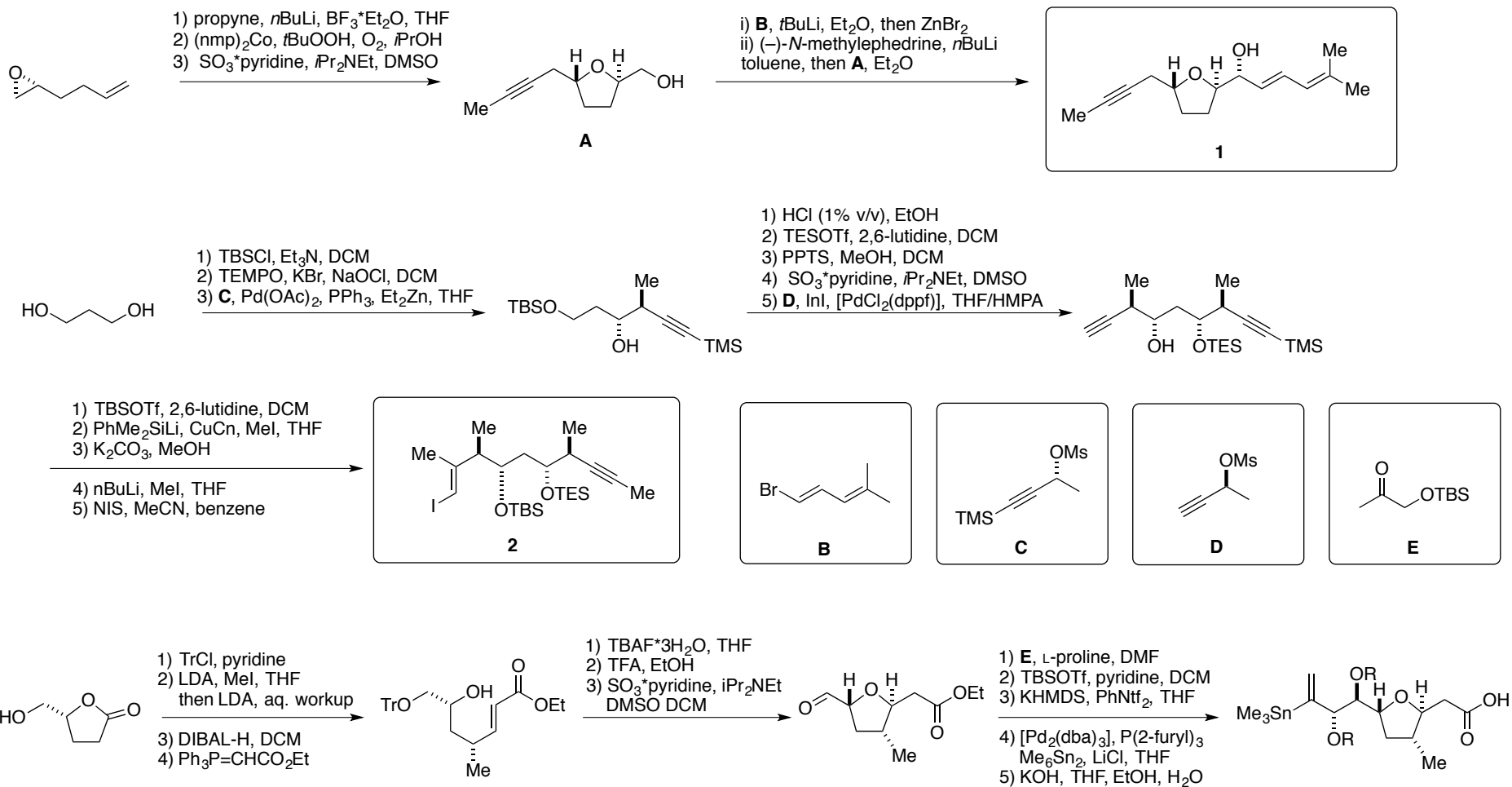


# E27: Total Synthesis of Amphidinolide F

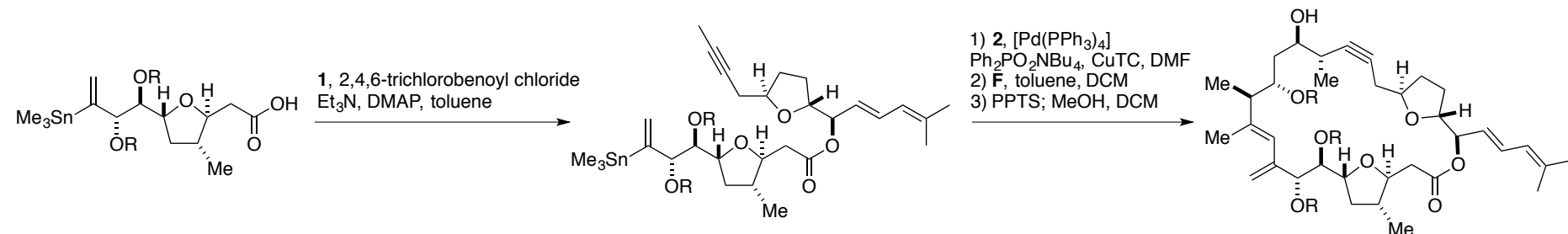


G. Valot, C. S. Regens, D. P. O'Malley, E. Godineau, H. Takikawa, A. Fürstner, *Angew. Chem. Int. Ed.* **2013**, *52*, 9534–9538.

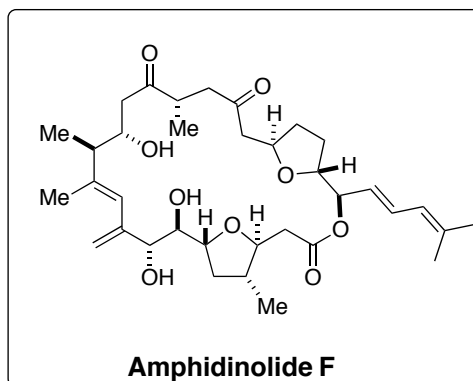


Sparr Group Seminar  
03.11.2016  
Dominik Lotter

# E27: Total Synthesis of Amphidinolide F



- Isolated from the marine  
Dionoflagellate *Amphidinium* sp. in  
1991
- Cytotoxic activity for murine  
lymphoma L1210 and human  
epidermoid carcinoma KB cell lines
- Second total synthesis with 21  
linear steps (34 before)



- 1) [(C<sub>2</sub>H<sub>4</sub>)PtCl<sub>2</sub>]<sub>2</sub>, Et<sub>2</sub>O  
2) PPTS, benzene  
3) TPAP, DCM  
4) HF\*NEt<sub>3</sub>, Et<sub>3</sub>N, MeCN

