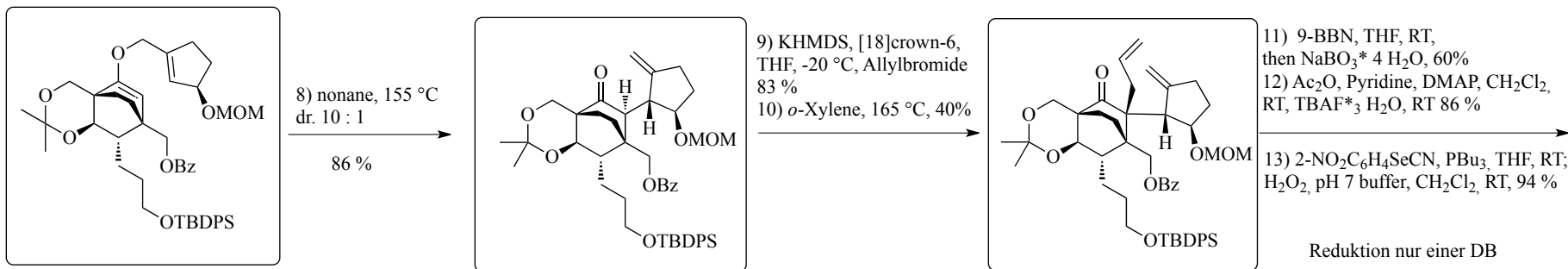
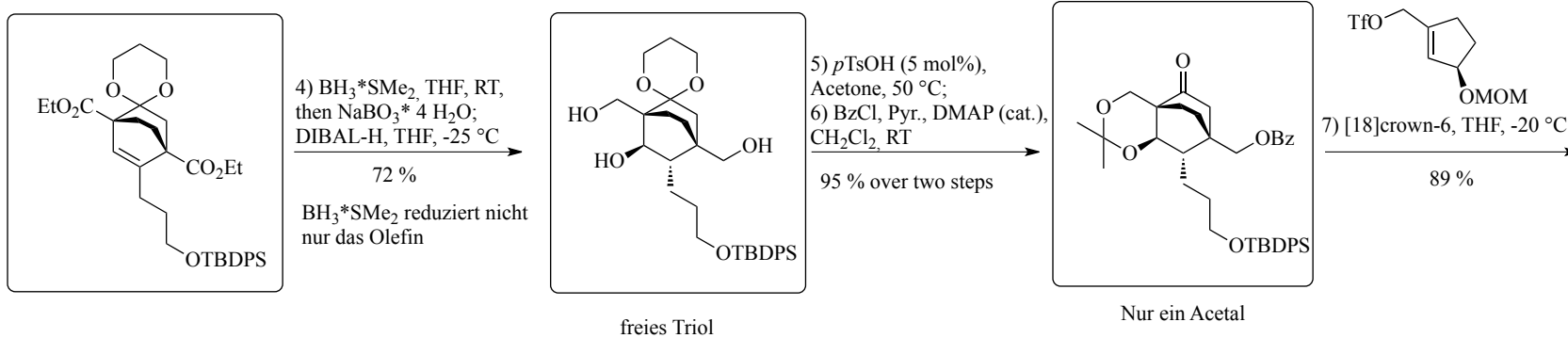
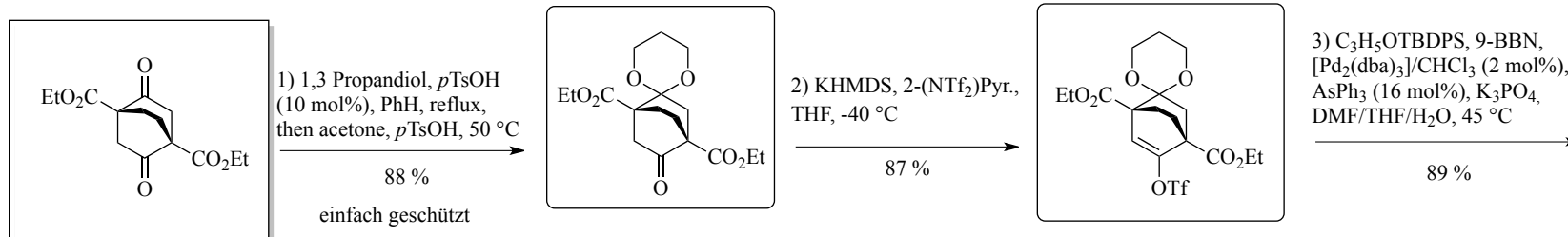
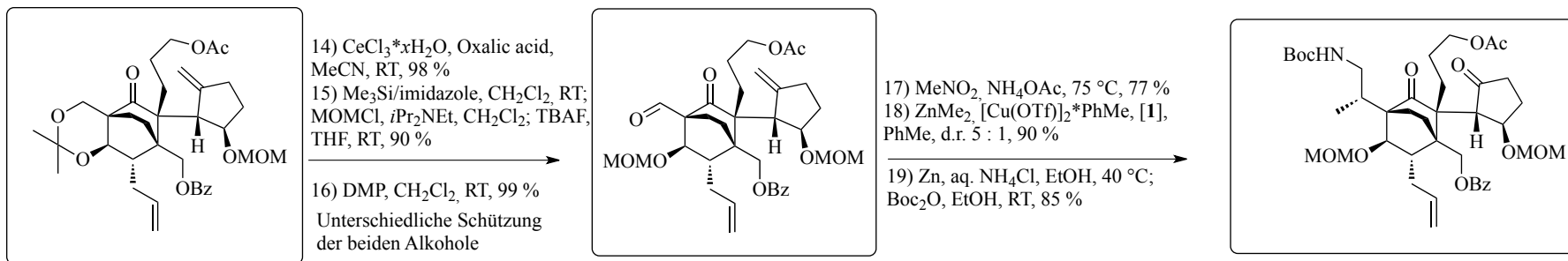


# Total Synthesis of (+) Daphmanidin E

Matthias E. Weiss, Erick M. Carreira, *Angew. Chem. Int. Ed.* 2011 Vol. 50, Issue 48, p 11501 -11505

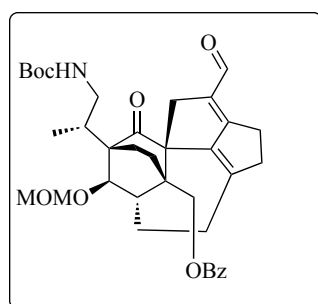




20)  $\text{O}_3$ ,  $\text{PPh}_3$ ,  $\text{CH}_2\text{Cl}_2$ , -78 °C;  $\text{NaBH}(\text{OAc})_3$ , AcOH, THF, RT, 72 %  
 21) MsCl,  $\text{Et}_3\text{N}$ ,  $\text{CH}_2\text{Cl}_2$ , 0 °C; NaI, Acetone, 76 %  
 22) DBU, PhMe, RT, 92 %

23a) 110 mol% [2], sunlamp, 60 °C, MeCN, 95 %  
 or  
 23b) 25 mol% [2], 1.5 eq.  $i\text{Pr}_2\text{NEt}$ , blue LED, 23 °C, MeCN, 93 %

24)  $\text{K}_2\text{CO}_3$ , MeOH, 0 °C, 77 %  
 25) PCC,  $\text{CH}_2\text{Cl}_2$ , RT, 92 %  
 26)  $\text{Bn}_2\text{NH} \cdot \text{CF}_3\text{CO}_2\text{H}$ , PhH, 50 °C, 77 %



28)  $\text{CF}_3\text{CO}_2\text{H}$ ,  $\text{CH}_2\text{Cl}_2$ , RT;  $\text{NH}_4\text{Cl}$ , EtOH, 75 °C  
 56 %

29)  $\text{Ph}_2\text{BBR}$ ,  $\text{CH}_2\text{Cl}_2$ , -25 °C, 76 %

