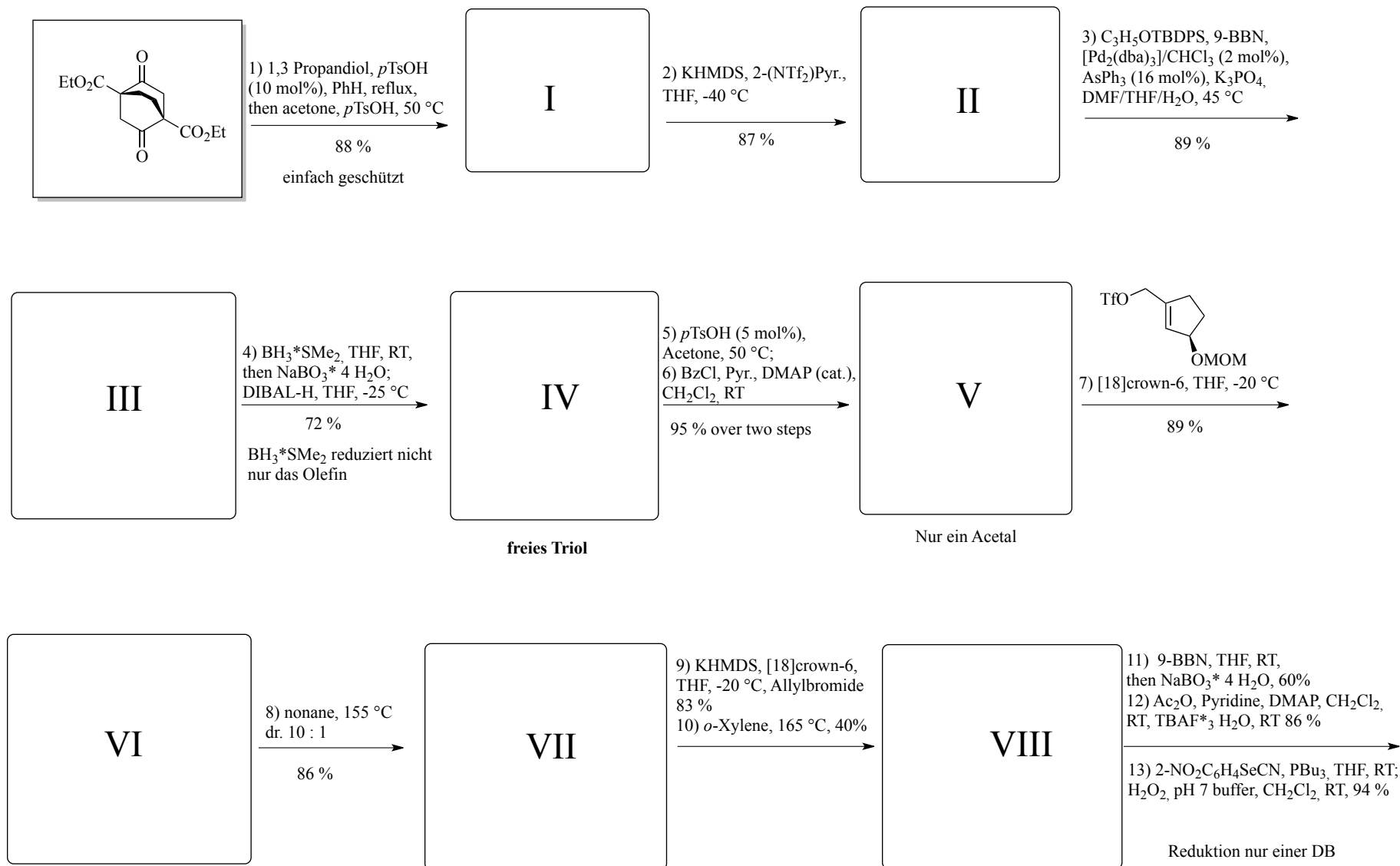
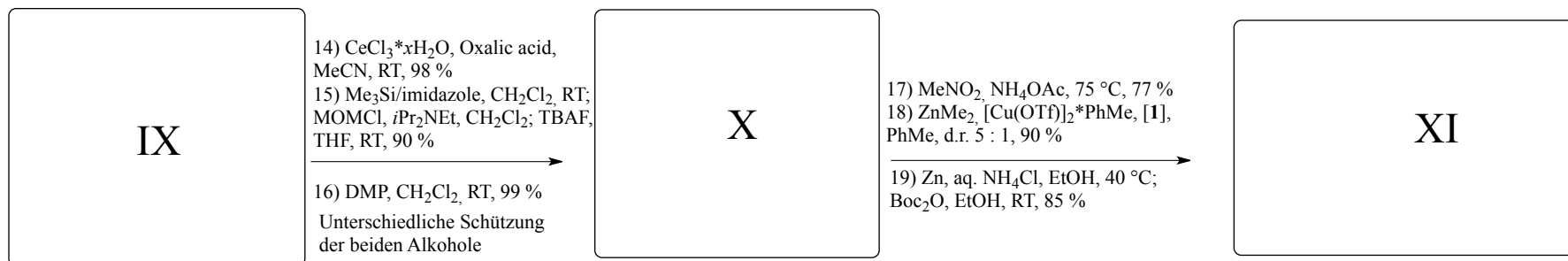


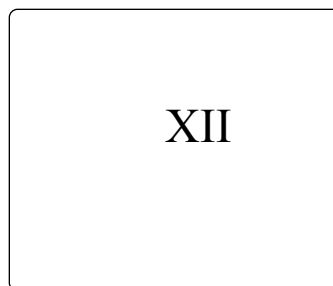
Total Synthesis of (+) Daphmanidin E

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

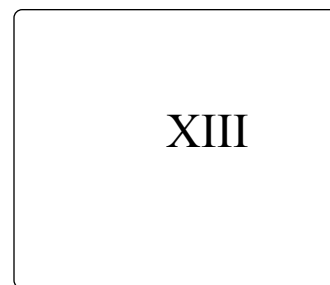




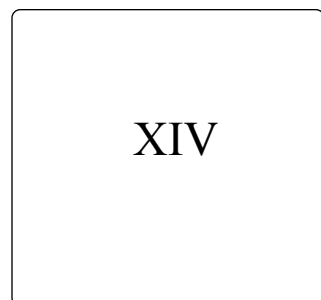
20) O_3 , PPh_3 , CH_2Cl_2 , -78 °C; $\text{NaBH}(\text{OAc})_3$, AcOH, THF, RT, 72 %
 21) MsCl , Et_3N , CH_2Cl_2 , 0 °C; NaI, Acetone, 76 %
 22) DBU, PhMe, RT, 92 %



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 %

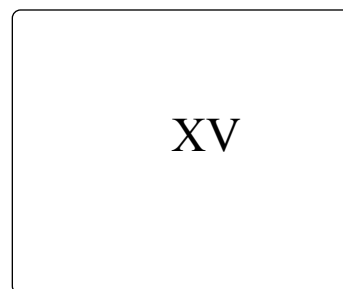


24) K_2CO_3 , MeOH, 0 °C, 77 %
 25) PCC, CH_2Cl_2 , RT, 92 %
 26) $\text{Bn}_2\text{NH} \cdot \text{CF}_3\text{CO}_2\text{H}$, PhH, 50 °C, 77 %

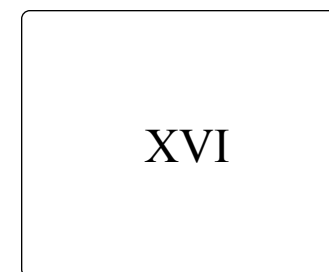


pentacyclic

27) NaCN, AcOH, MnO_2 , MeOH, RT; K_2CO_3 , MeOH, 45 °C; Ac_2O , $i\text{Pr}_2\text{NEt}$, DMAP, CH_2Cl_2 , RT; 79 % over 3 Steps



28) $\text{CF}_3\text{CO}_2\text{H}$, CH_2Cl_2 , RT; NH_4Cl , EtOH, 75 °C, 56 %



29) Ph_2BBr , CH_2Cl_2 , -25 °C, 76 %

