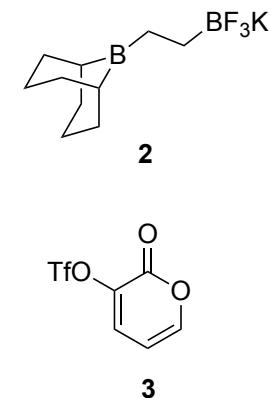


4) TMSOTf (2.1 eq.)  
DIPEA (2.2 eq.)  
DCM, 0°C  
then r.t. 80%

**B**



### Cephanolide C

**B**

5)  $\text{Co}(\text{thd})_2$  (10mol%)  
 $\text{O}_2$ ,  $\text{Et}_3\text{SiH}$ , TBHP  
 $\text{PhCF}_3$ , r.t.  
then NFF, DBU, THF  
- 78°C, 42%

**C**

6)  $\text{Ti}(\text{O}i\text{Pr})_2\text{Cl}_2$ ,  $\text{CH}_2(\text{ZnBr})_2$   
THF, 15°C, 53%  
7)  $\text{H}_2$ ,  $\text{Pd/C}$ , MeOH, r.t.  
99%, d.r. > 20:1  
8) PCC, celite, PhH, 70°C  
then 2M HCl, THF, 70°C, 54%

**Cephanolide C**

### Cephanolide A

**B**

9)  $\text{CuCl}$ , Xantphos  
 $\text{B}_2\text{pin}_2$ ,  $\text{LiO}^{\prime}\text{Bu}$ ,  $\text{MeI}$   
DMPU, 60°C,  
then  $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$   
 $\text{H}_2\text{O}$ , r.t. 77%  
10) DMP, DCM, r.t.  
> 99%

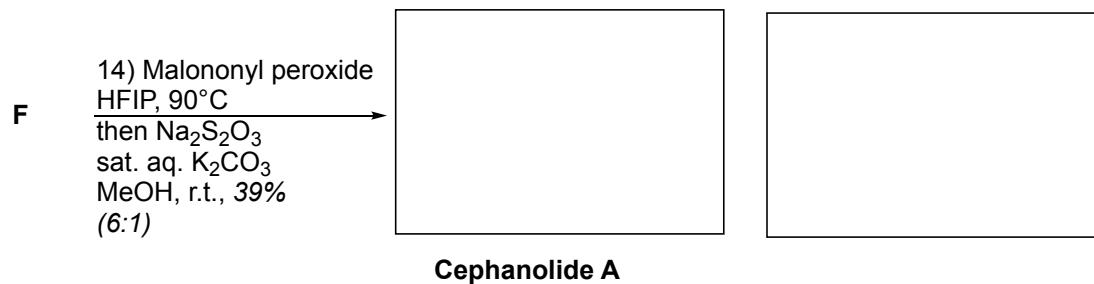
**D**

11)  $\text{NaBH}_4$ , MeOH, r.t.  
12)  $\text{I}_2$ , PIDA, DCM, 0°C  
 $\text{h}\nu$   
then TBAF, r.t.  
99%

**E**

13) Barton-McCombie  
conditions?  
82%

**F**



### Cephanolide B,C,D

