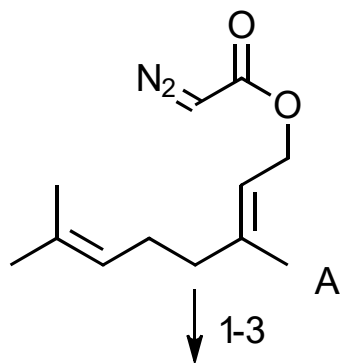


# Synthesis Challenge # 63

AG Wegner

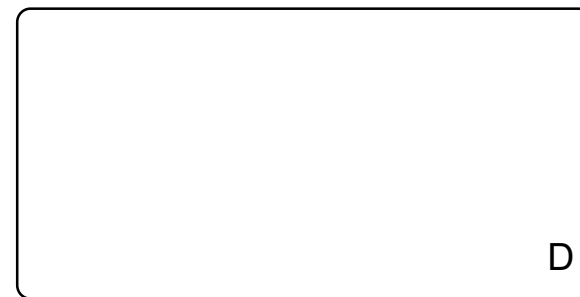
30.03.2017



↓ 4-6



↓ 7-9

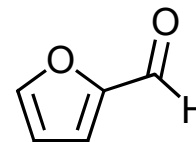


- 1) I, DBU (10 mol, %), IBX, DMSO
- 2)  $\text{Cu}(\text{TBS})_2$  (10 mol%), toluene, 80°C
- 3)  $\text{NaBH}_4$ , MeOH

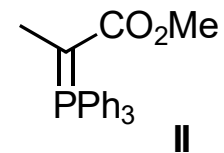
- 4) 4 N  $\text{KOH}$ , EtOH, then allylBr, DMF
- 5)  $\text{PPh}_3$ ,  $\text{I}_2$ , imidazole
- 6)  $n\text{BuLi}$  (2.5 eq.), THF

- 7) *m*CPBA
- 8)  $\text{NaIO}_4$
- 9) II

Please provide a synthesis for A.



I

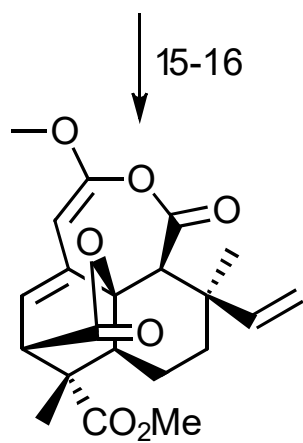
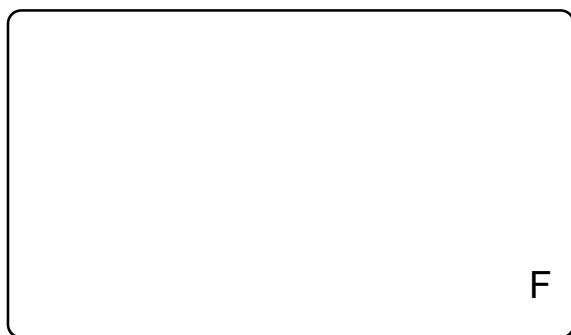


II

↓ 10-13



↓ 14



- 10) VO(acac)<sub>2</sub>, TBHP
- 11) Ag<sub>2</sub>O, MeI, acetone
- 12) III
- 13) Jones oxidation

14) DABCO, toluene, 120°C, 3d

- 15) Pd(PPh<sub>3</sub>)<sub>4</sub>, PPh<sub>3</sub>
- 16) Tf<sub>2</sub>O, Et<sub>3</sub>N, -78°C - 0°C

