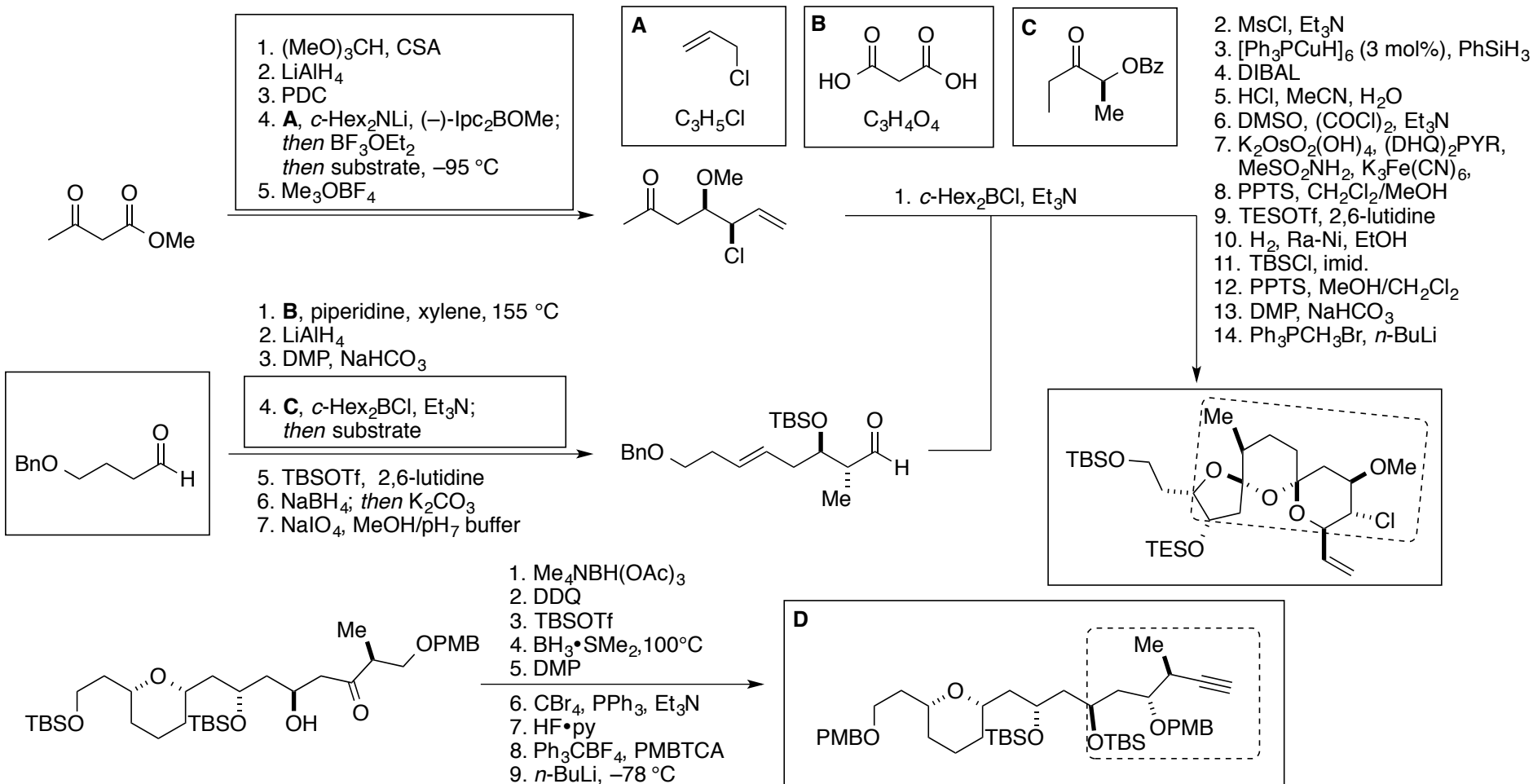
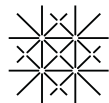


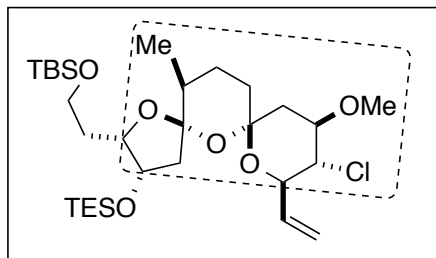
# E54: Synthesis of Spirastrelloide A methyl ester<sup>[1,2]</sup>



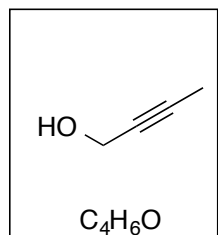
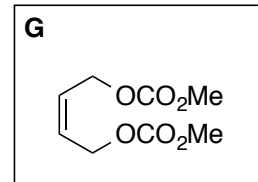
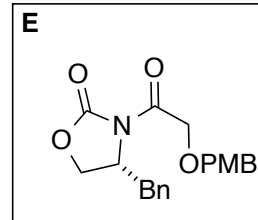
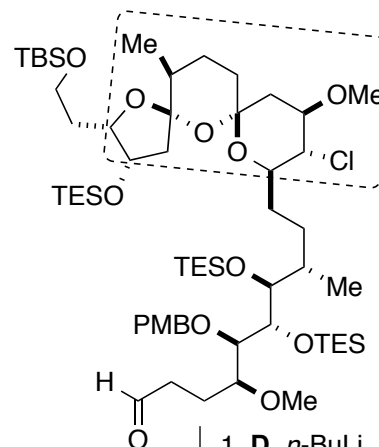
<sup>[1]</sup> I. Paterson, E. A. Anderson, S. M. Dalby, J. H. Lim, P. Maltas, O. Loiseleur, J. Genovino, C. Moessner, *Org. Biomol. Chem.* **2012**, *10*, 5861.

<sup>[2]</sup> I. Paterson, E. A. Anderson, S. M. Dalby, J. H. Lim, P. Maltas, *Org. Biomol. Chem.* **2012**, *10*, 5873.

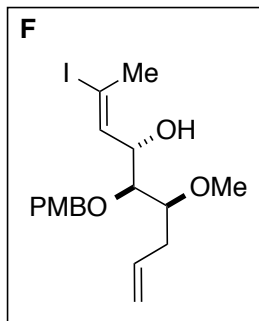




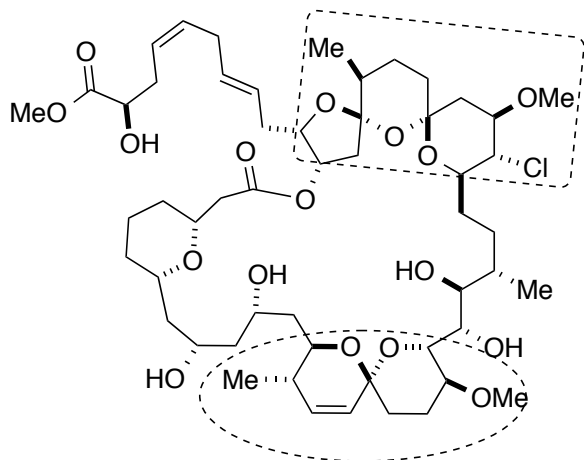
1. 9-BBN; **F**, [PdCl<sub>2</sub>(dppf)], Ph<sub>3</sub>As, Cs<sub>2</sub>CO<sub>3</sub>
2. BH<sub>3</sub>•SMe<sub>2</sub>; H<sub>2</sub>O<sub>2</sub>, NaOH
3. TESOTf, 2,6-lutidine
4. PPTS, MeOH/CH<sub>2</sub>Cl<sub>2</sub>
5. DMP, NaHCO<sub>3</sub>



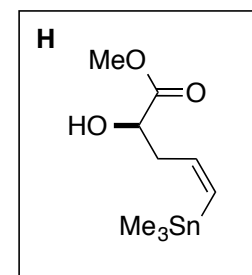
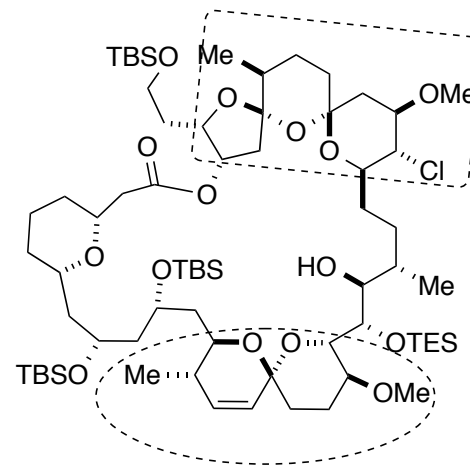
1. Cp<sub>2</sub>TiCl<sub>2</sub>, *i*-BuMgCl; I<sub>2</sub>
2. DMP
3. **E**, *n*-Bu<sub>2</sub>BOTf, Et<sub>3</sub>N, PhMe
4. MeNH(OMe) HCl, AlMe<sub>3</sub>
5. TESOTf
6. AllylMgBr
7. Zn(BH<sub>4</sub>)<sub>2</sub>
8. Me<sub>3</sub>OBF<sub>4</sub>
9. PPTS, MeOH



1. **D**, *n*-BuLi
2. H<sub>2</sub>, Pd/CaCO<sub>3</sub>/Pb, quinoline
3. DMP, NaHCO<sub>3</sub>
4. DDQ, CH<sub>2</sub>Cl<sub>2</sub>/pH<sub>7</sub> buffer
5. TEMPO, PhI(OAc), CH<sub>2</sub>Cl<sub>2</sub>/pH<sub>7</sub> buffer; NaClO<sub>2</sub>, NaH<sub>2</sub>PO<sub>4</sub>, 2-methyl-2-butene
6. TBAF, AcOH
7. 2,4,6-trichlorobenzoyl chloride, Et<sub>3</sub>N; then DMAP, PhMe



1. HF•py
2. PPTS, (MeO)CMe<sub>2</sub>
3. PPTS, MeOH
4. DMP, NaHCO<sub>3</sub>
5. Ph<sub>3</sub>CH
6. Grubbs II, **G**, PhH, 80 °C
7. PdCl<sub>2</sub>(MeCN)<sub>2</sub>, **H**
8. PPTS, MeOH, 35 °C



[<sup>1</sup>] I. Paterson, E. A. Anderson, S. M. Dalby, J. H. Lim, P. Maltas, O. Loiseleur, J. Genovino, C. Moessner, *Org. Biomol. Chem.* **2012**, *10*, 5861.

[<sup>2</sup>] I. Paterson, E. A. Anderson, S. M. Dalby, J. H. Lim, P. Maltas, *Org. Biomol. Chem.* **2012**, *10*, 5873.

