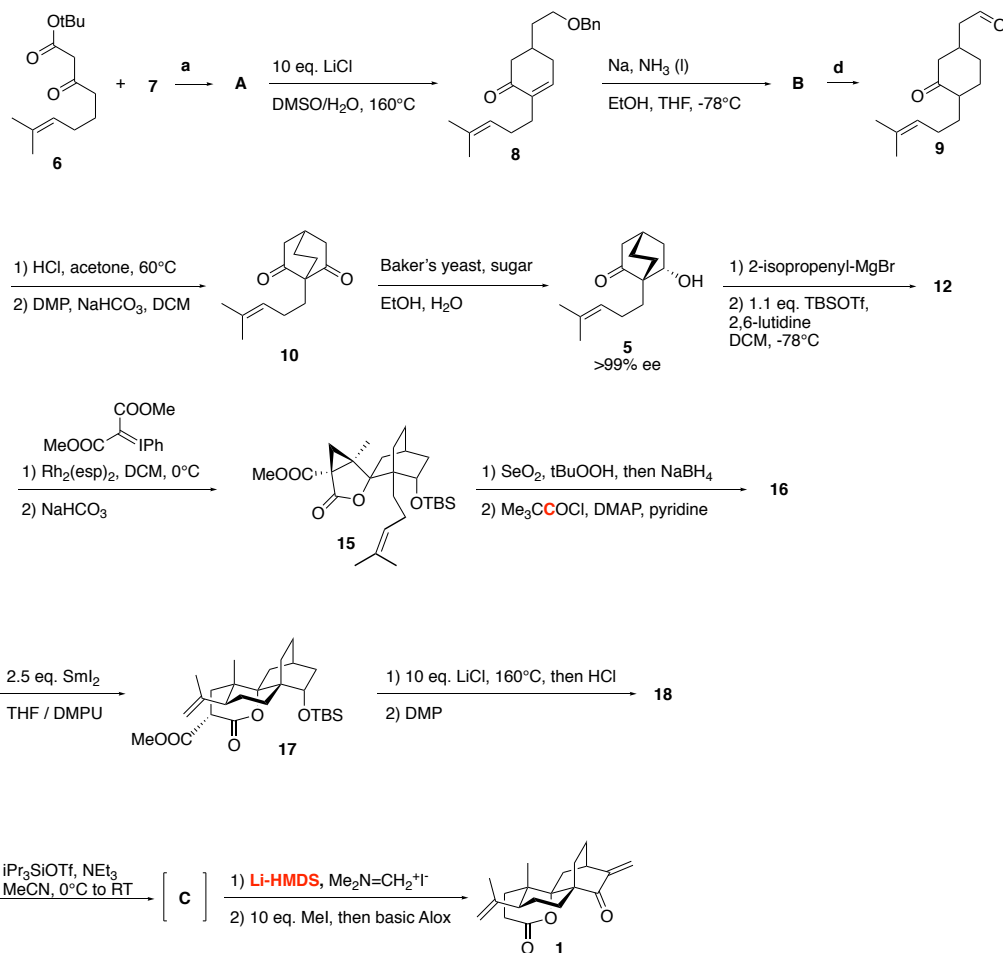


Exercise meeting, 24.01.2018

Submitted by Lars

Total Synthesis of (+)-Crotogoudin



Q1: Give reagent **7** and conditions **a** to form **8** in two steps from **6**.

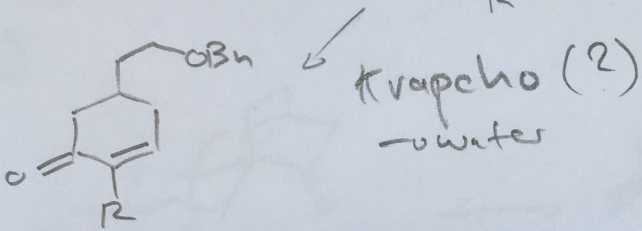
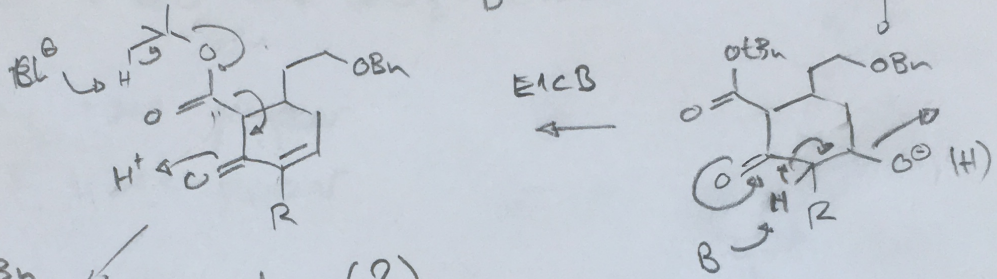
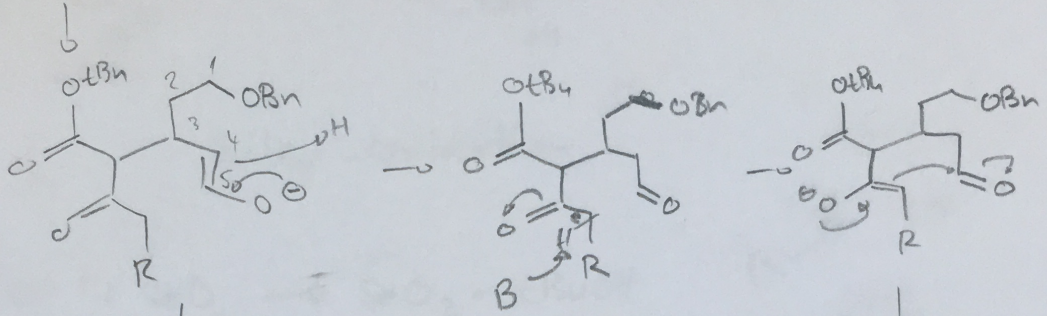
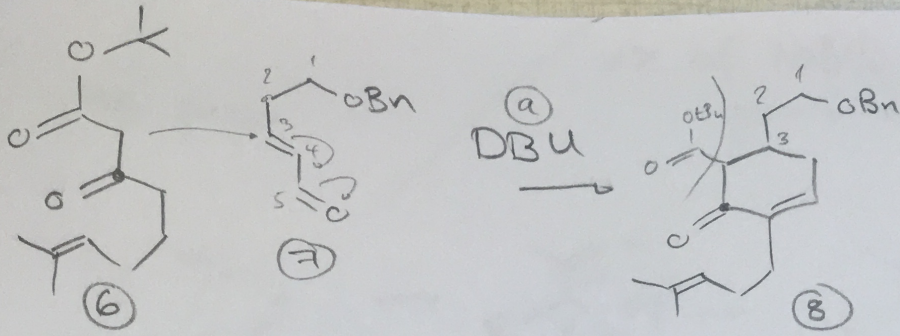
Q2: Give **B** and reagents **d** to form **9**. Explain the formation of **10**.

Q3: Give the structure of **12** and explain the formation of **15** with a mechanism.

Q4: Explain the formation of **16** and **17** with a mechanism. Give **18**.

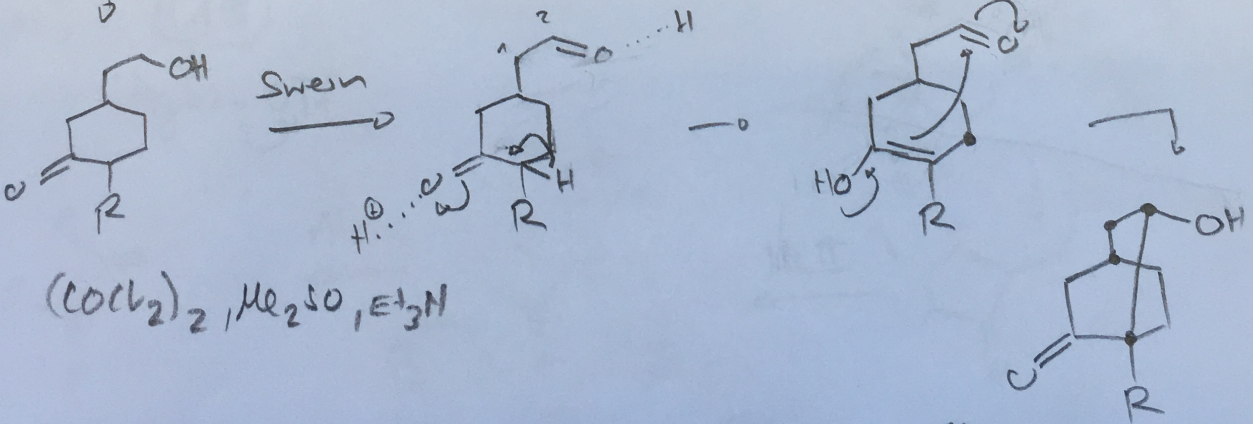
Q5: Form **1** from **18**. What are the names of the two last steps?

1

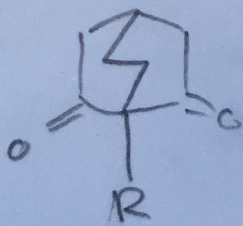


Krapcho (?)
- water

Na⁺



DMP

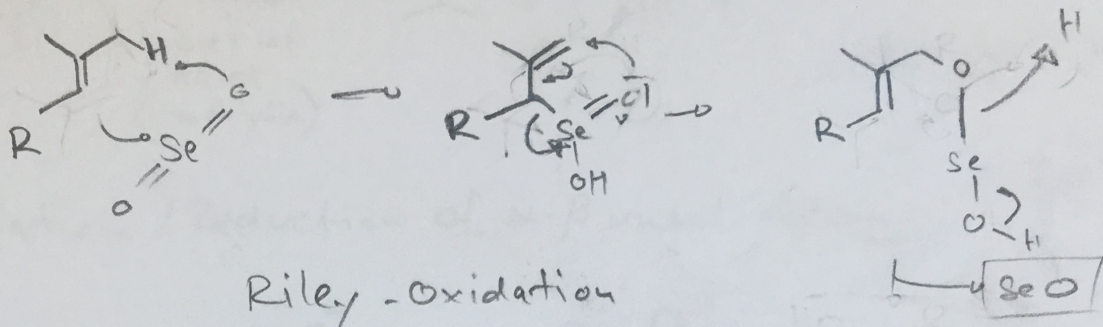


10

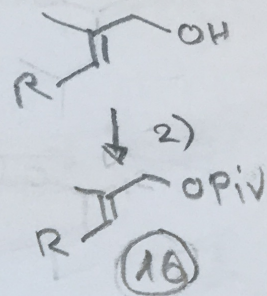
Q3: see paper

use of NaBH_4 : overoxidation, quench of tBuOOH (?)

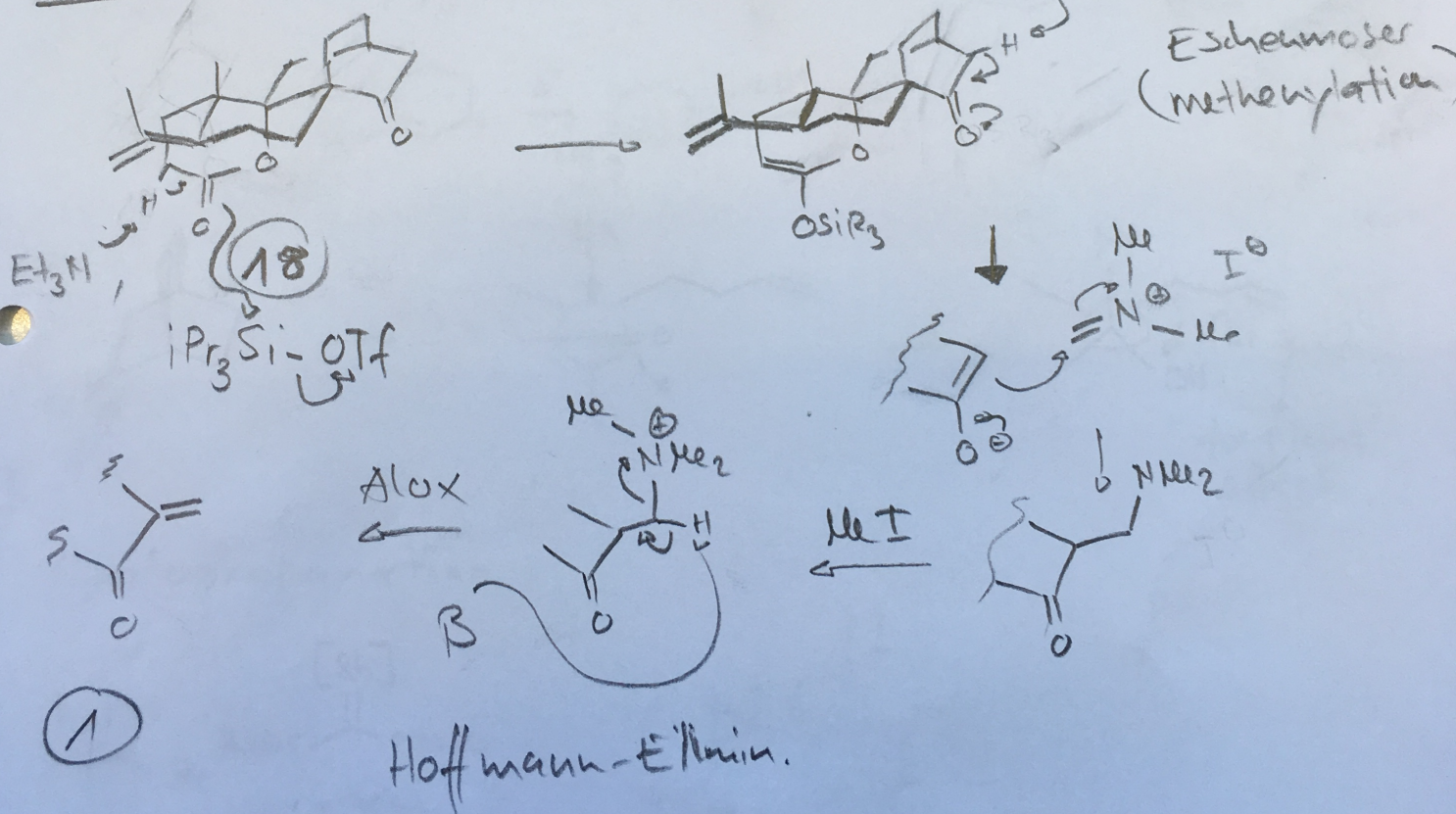
Q4:



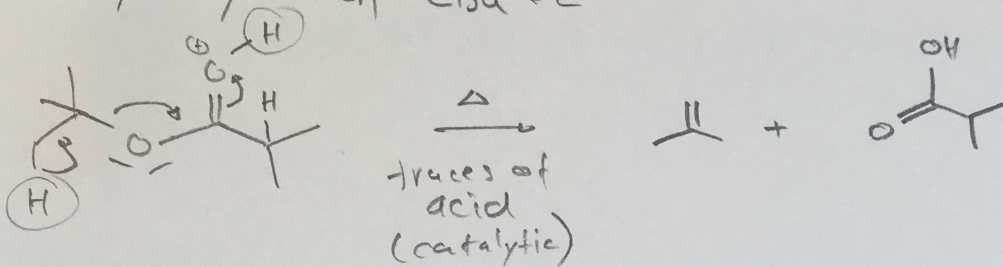
For SmI_2 : see paper
18: see paper



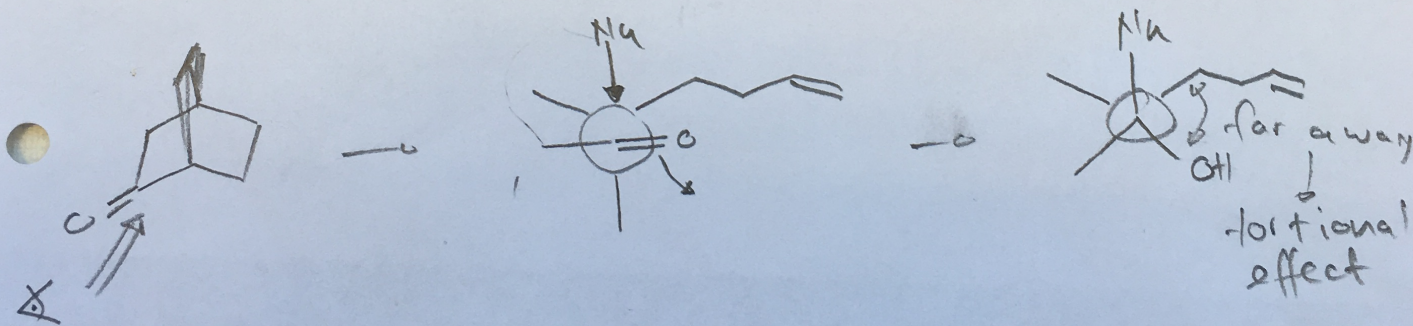
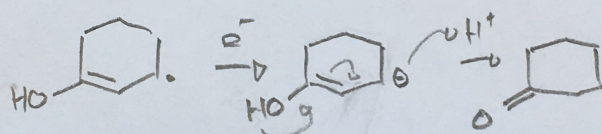
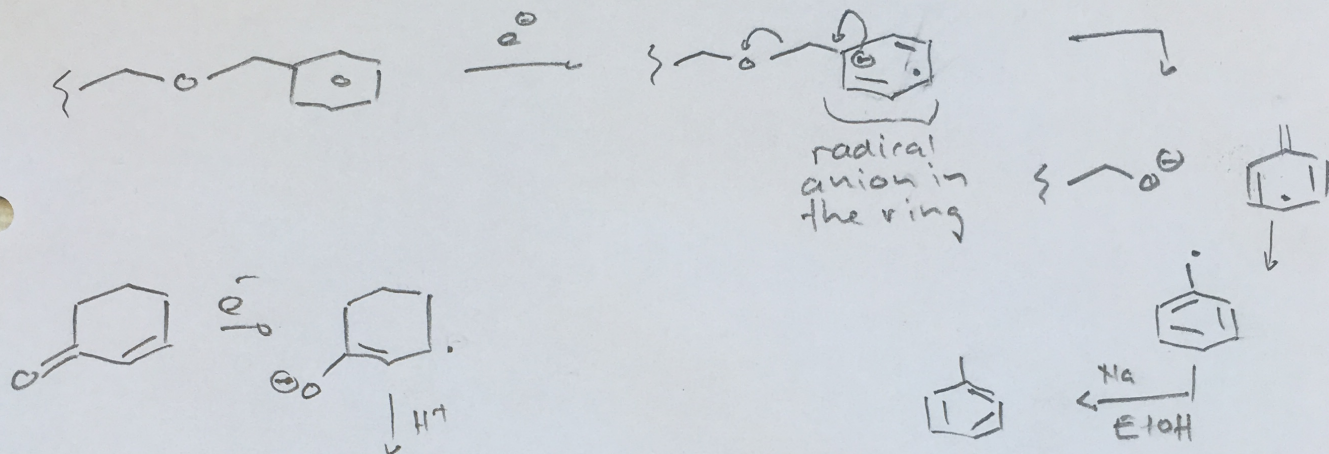
Q5:



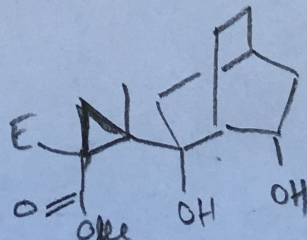
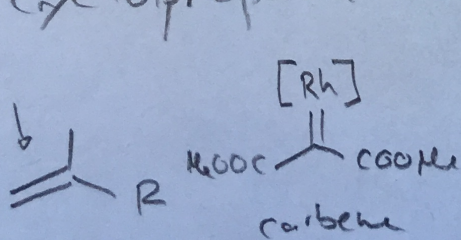
Hydrolysis of tBu-E



Debenzylation / Reduction of α - β unsat. ketone



Cyclopropanation



less subst.
in the molecule