Exercise session 03.12.15
For each exercise describe the mechanism and find the missing structures

Exercise 1:

Snider and coworkers, *Org. Lett.* 2007, 9, 873-874

Exercise 2:

Zard and coworkers, *ACIE* 1998, 37, 1128-1131

Exercise 3:

Sarpong and coworkers, *J. Am. Chem. Soc.* 2015, 137, 6327-6334
Exercise 4:

Trauner and coworkers *ACIE* **2003**, 42, 549-552

Product A

\[
\text{Product A} \xleftarrow{\text{Me}_2\text{AlCl (0.2 equiv.)}} \text{DCM} \quad \text{Product B} \xrightarrow{\text{toluene, 60 °C}} \text{CO}_2\text{Et}
\]

Product A and B are isomers with chemical formula of \( \text{C}_{16}\text{H}_{24}\text{O}_2 \)

Exercise 5:

Chapman and coworkers *JACS* **1971**, 93, 6696-6698

Carpanone

\[
\begin{align*}
\text{1) KOtBu} \\
\text{2) PdCl}_2, \text{NaOAc, MeOH, H}_2\text{O}
\end{align*}
\]