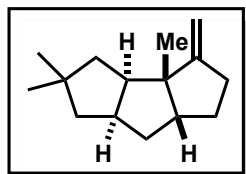
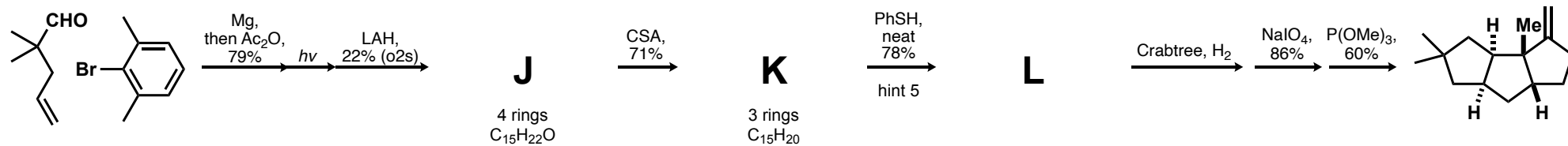
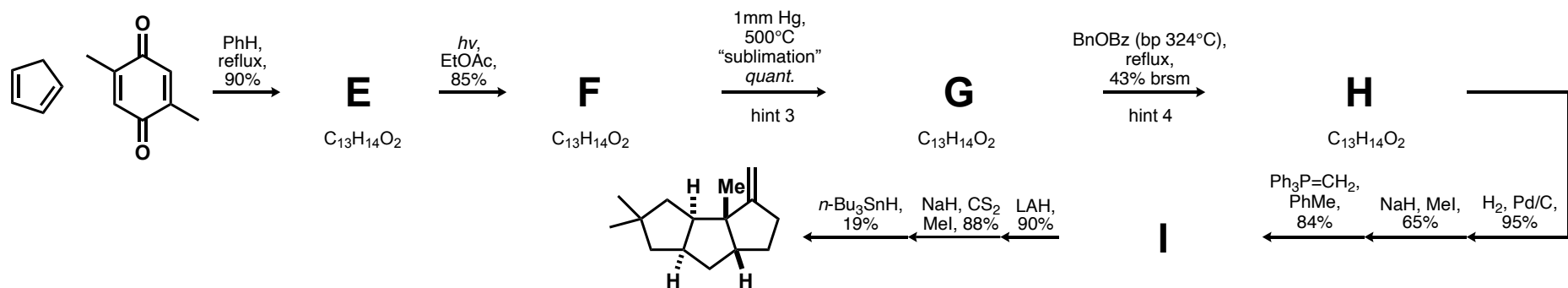
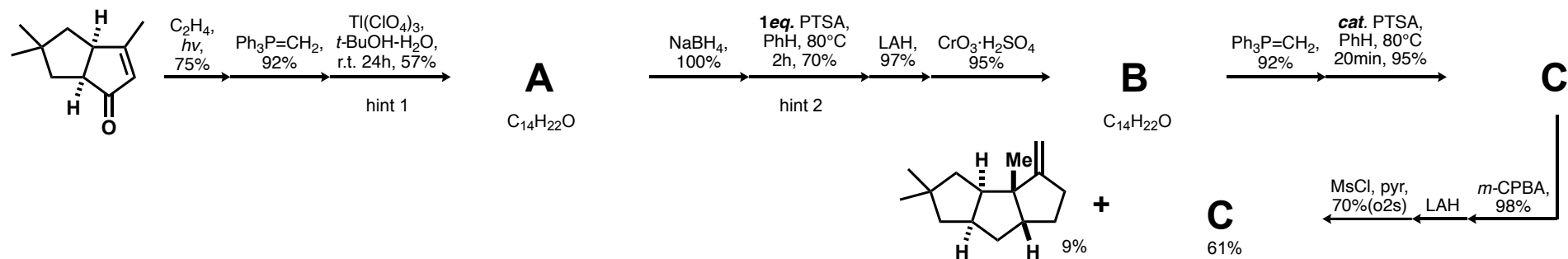
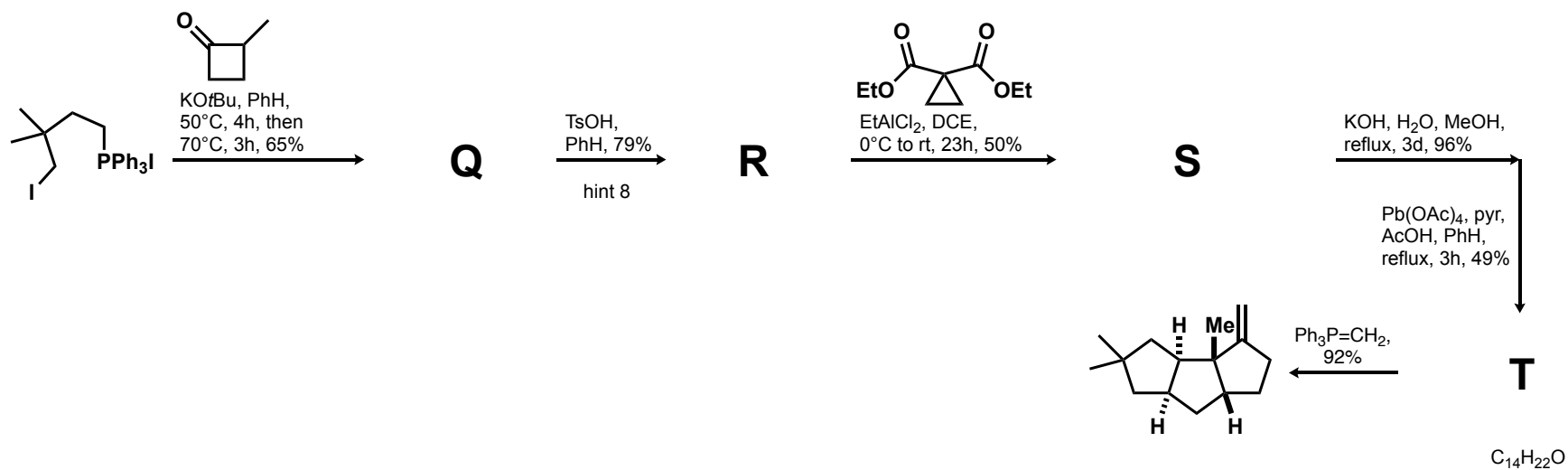
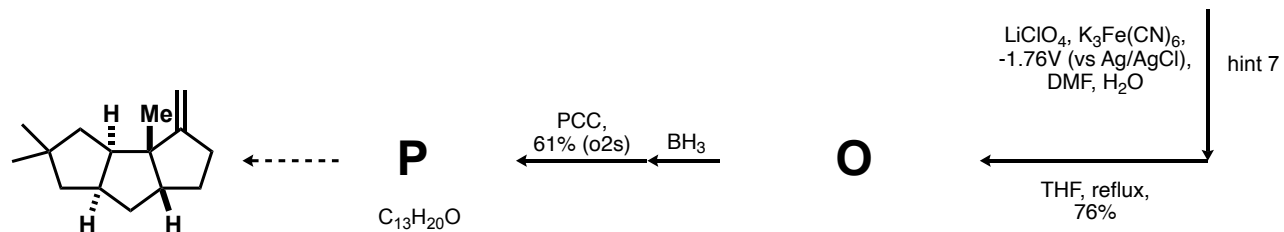
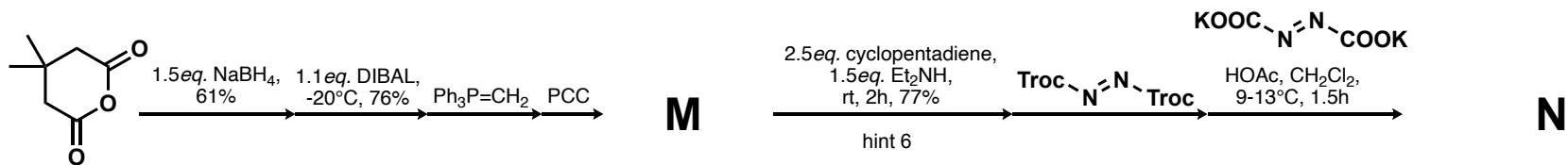


Selected Syntheses ( 5 / >25 ) of Hirsutene



C<sub>15</sub>H<sub>24</sub>





hint 1 : Thallium Perchlorite has been effectively used for ring-expansions (in an oxidative fashion, Tl(I) generated), the 5 membered-side transferred in this case.

hint 2 : Rearrangement didn't work in a desired way.

hint 3 : Sublimation of **F** through a Pyrex Vigreux column heated to 500 °C at 1mmHg and direct crystallisation of the pyrolysate gave **G**. 3 rings in **G**

hint 4 : By comparing **G** (stereocenters!) with Hirsutene one should know the purpose of this step. This reaction went through a transposed bis-enone as an intermediate

hint 5 : "Radical conjugated addition"

hint 6 : not DA

hint 7 : Imagine what's needed in the following step, product of this step has the formula of  $C_{13}H_{20}N_2$

hint 8 : **R** contains a tri-substituted olefin