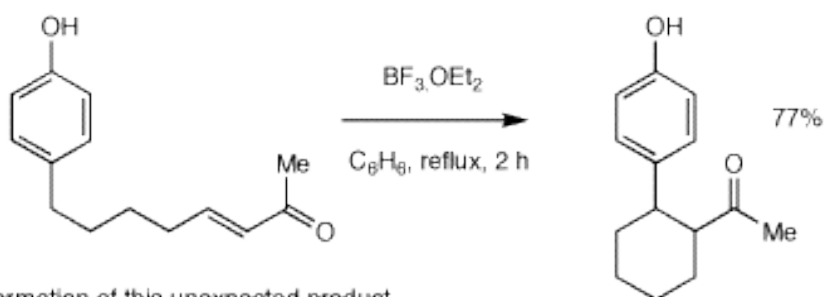


Question 1.

Please provide a mechanism, accounting for each of the reagents used in the reaction, for the transformation in Scheme 1 of the paper presented today.

Question 2.

Atkinson and Green treated the α,β -unsaturated ketone with BF_3 etherate, and obtained the cyclohexyl ketone.
R. S. Atkinson and R. H. Green, *J. Chem. Soc., Perkin Trans. 1*, **1974**, 394.



Account for the formation of this unexpected product.