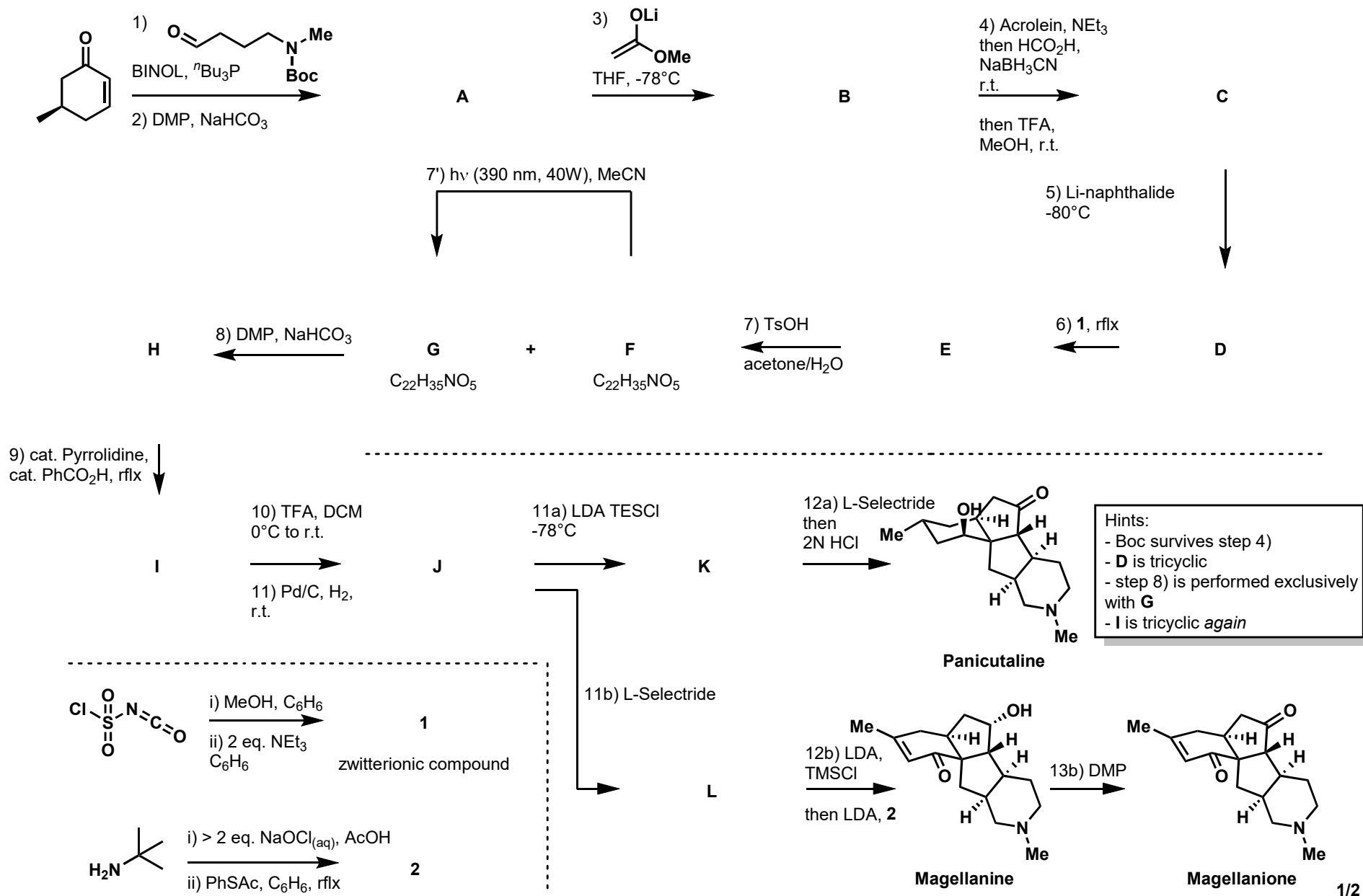


Diquinane Lycopodium Alkaloids

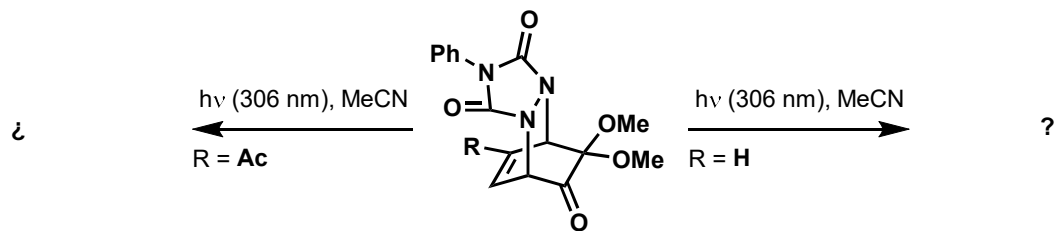
Denksport Lukas Holz 08.02.2023



Please provide mechanisms for the two transformations shown below.

Also, provide a rationale for the different outcomes.

Hint: the triazolidine-3,5-dione moiety does not partake in the photoreactions.



contains diazatricyclo[...]octane core

$\text{C}_{18}\text{H}_{17}\text{N}_3\text{O}_6$
59% yield

contains diazabicyclo[...]heptane core

$\text{C}_{15}\text{H}_{15}\text{N}_3\text{O}_4$
72% yield