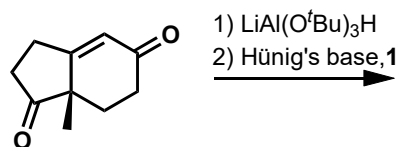
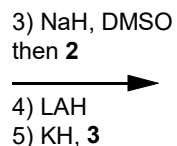


(-)-Punctatin A

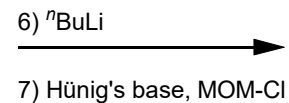
Denksport Lukas Holz 10.05.2023



A



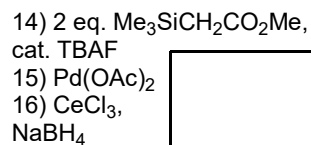
B



C

cis-hydrindane structure

Hajos-Wiechert Keton

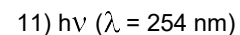


F

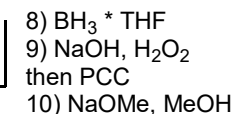


E

tricycle

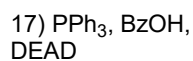


D

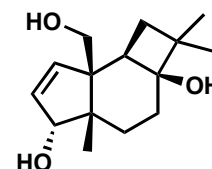
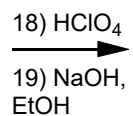


G

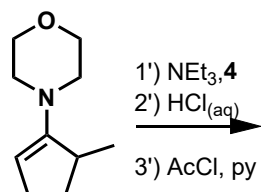
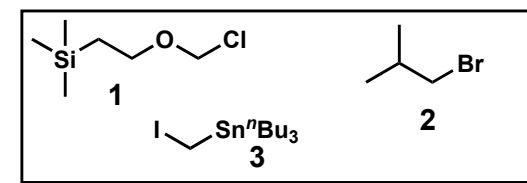
one TMS group still intact



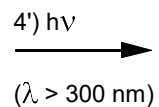
H



(-)-Punctatin A

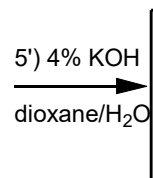


I



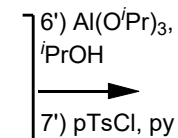
J
tricycle

DL-Daucene

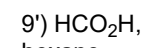
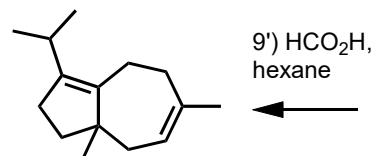
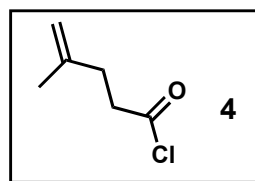


K

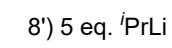
L
tricycle

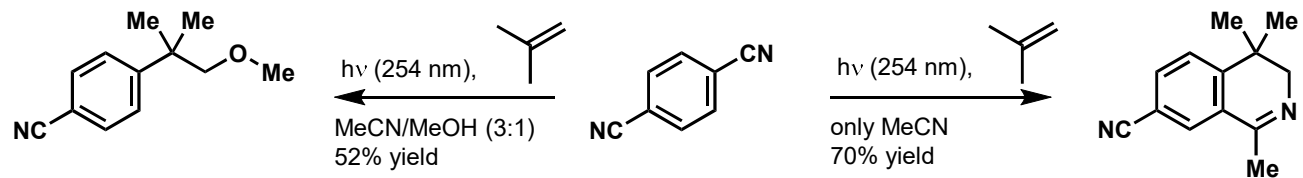


M



N





Please provide plausible mechanisms for the two transformations