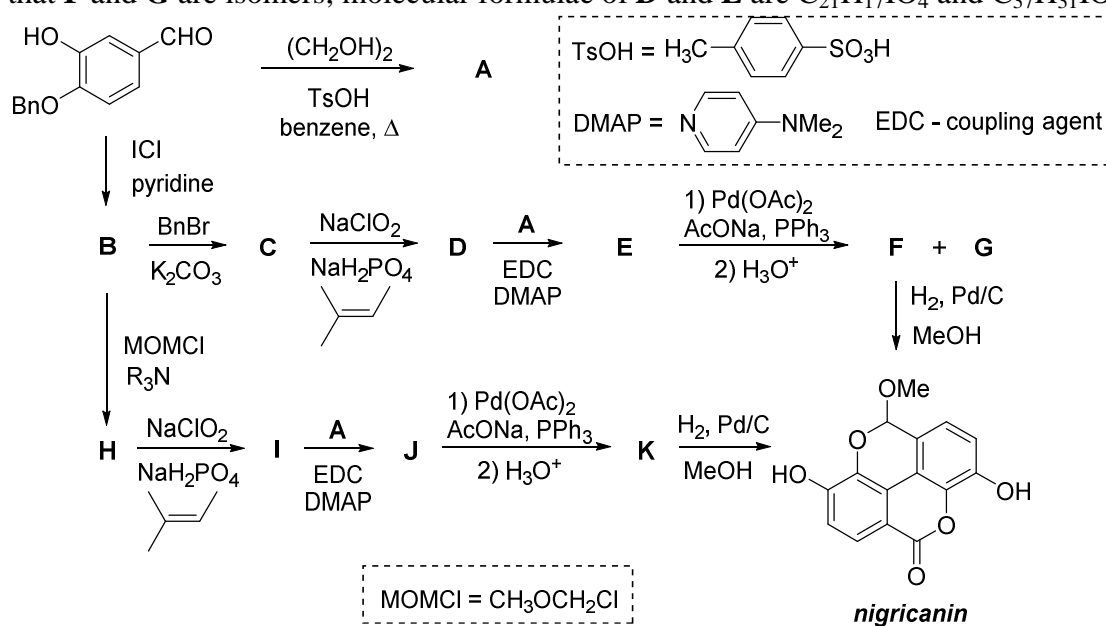
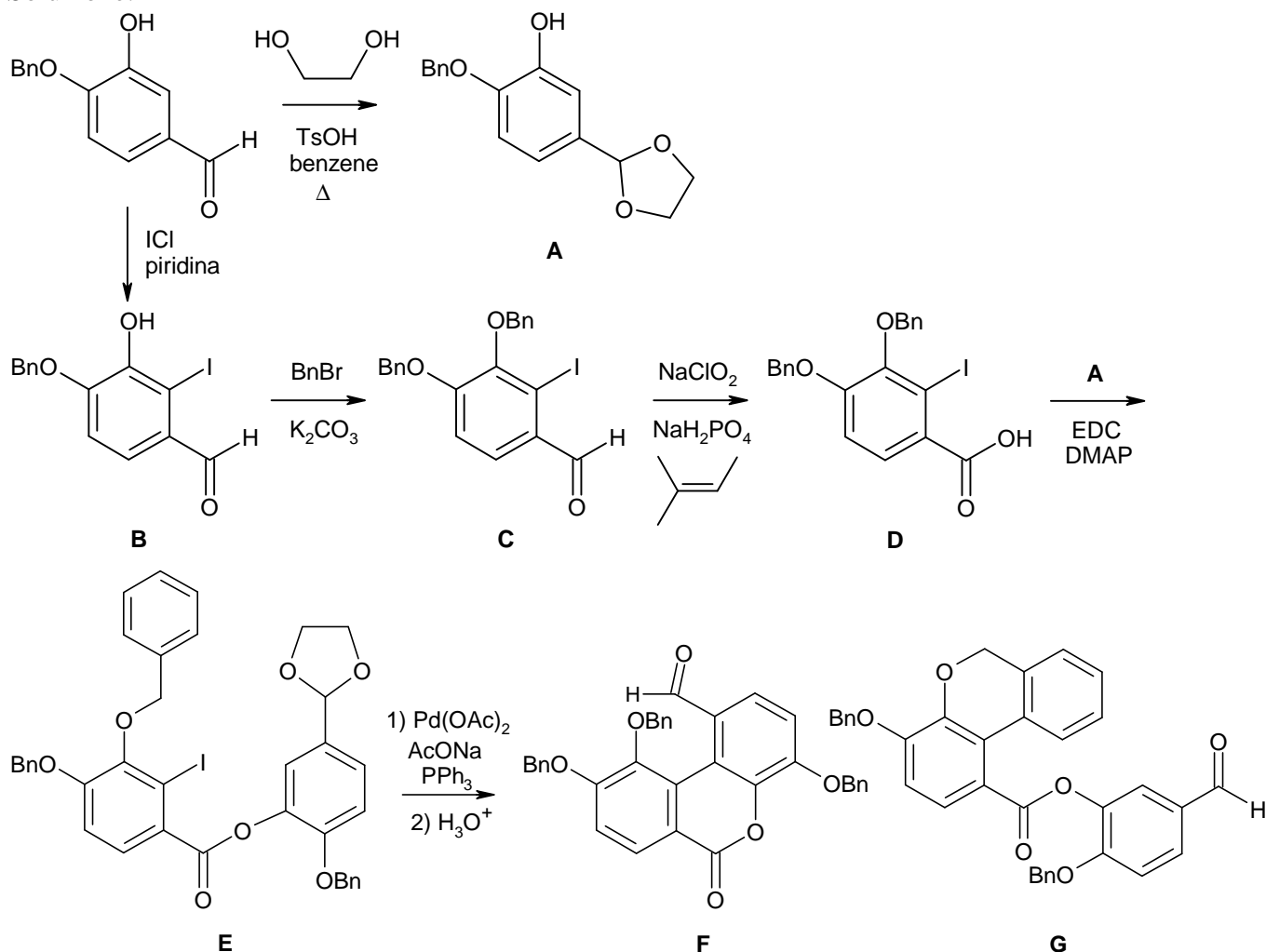


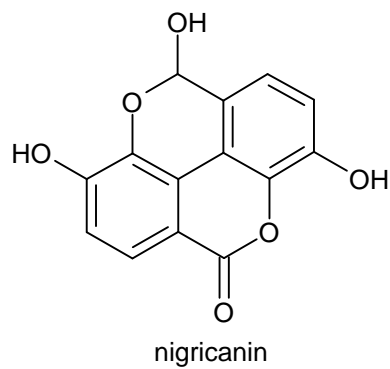
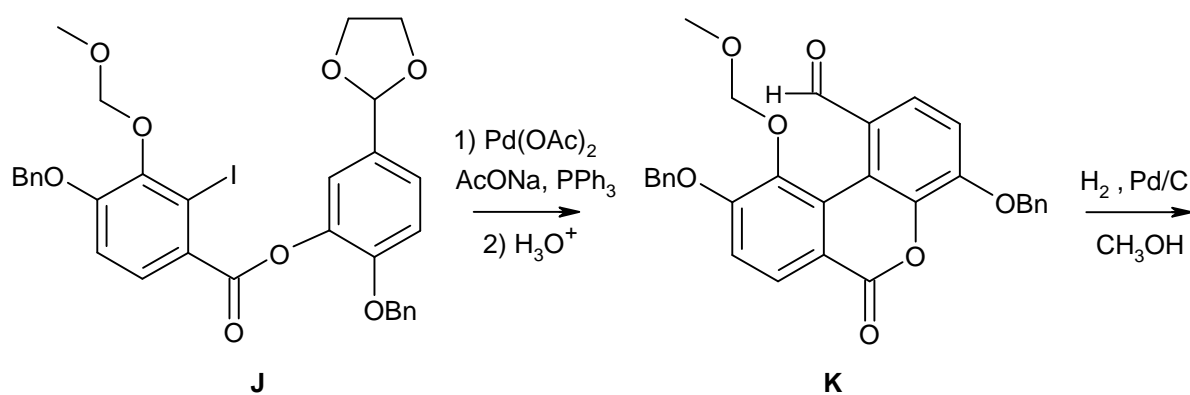
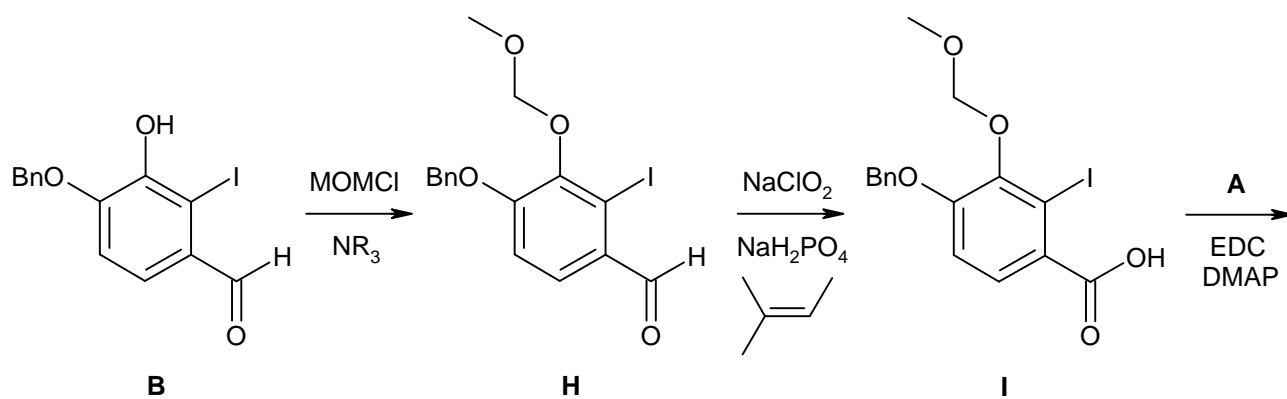
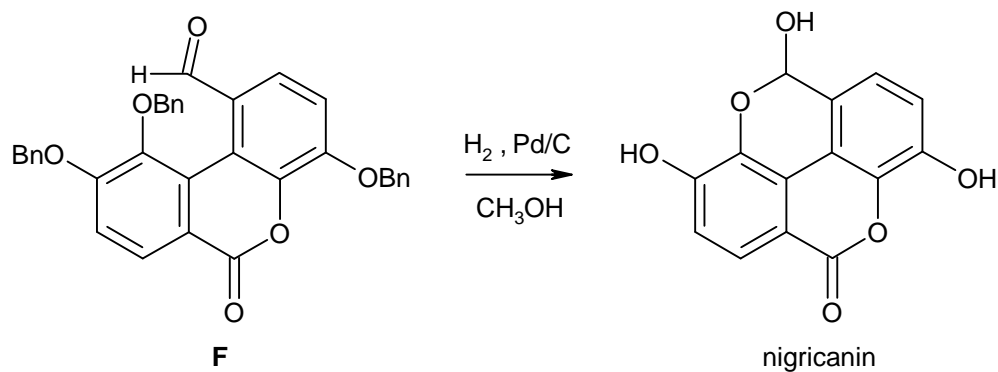
Problema 19 Pyrrolizidine alkaloids

Very recently, the first total synthesis of *nigriganin*, one of the ellagic acid congeners, was described. Decipher this scheme. Write down the structural formulae of compounds **A–K** accounting for the facts that **F** and **G** are isomers; molecular formulae of **D** and **E** are $C_{21}H_{17}IO_4$ and $C_{37}H_{31}IO_7$, respectively.



Soluzione:





Soluzione proposta da
Mauro Tonellato - ITI Marconi - Padova