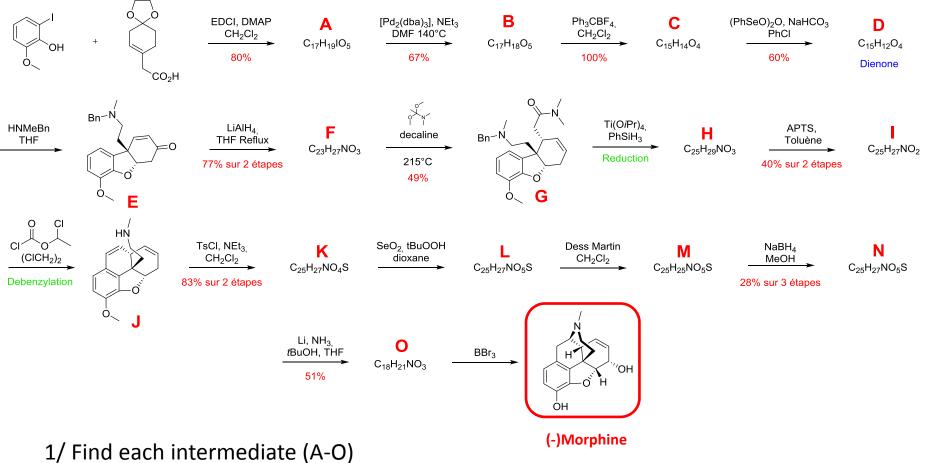
## **Total synthesis of (-)Morphine**

Morphine is an opium alkaloid extracted from Papaver somniferum. It is indicated in moderate to severe pain as in surgery, trauma, acute pulmonary edema, fractures, cancer pain, and severe neuralgia.



2/ Explain the formation of E, G and O

Alexandre Bruneau 1<sup>st</sup> Year PhD Student Chimie Thérapeutique D3-1

