

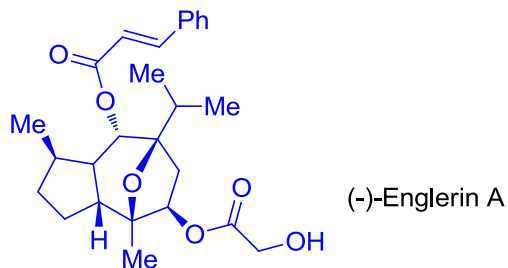
Johan FENNETEAU
Doctorant 1^{ère} année
Pharmacognosie
Equipe D5-4

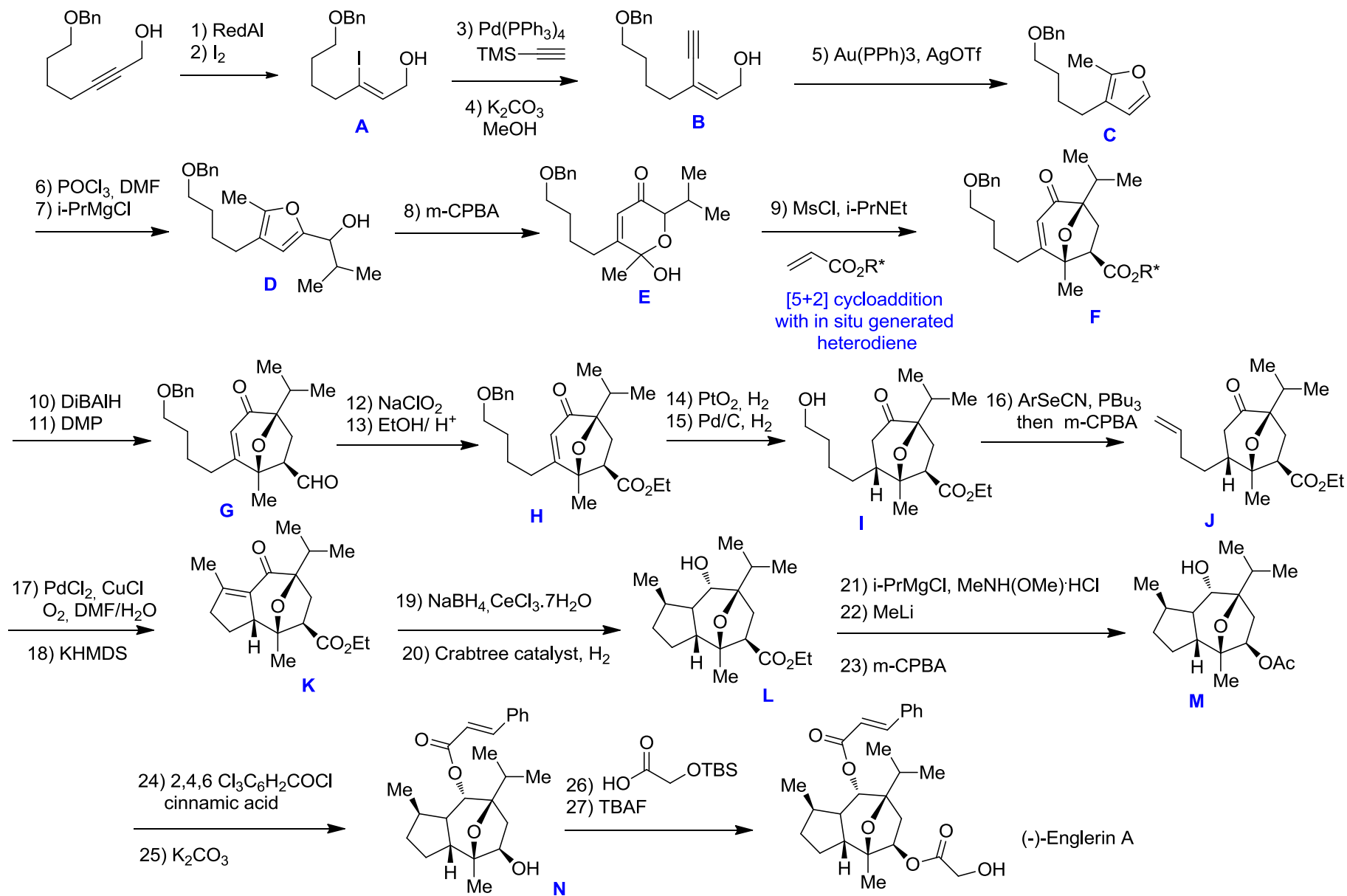
Total synthesis of Englerin A

Englerin A is a sesquiterpene isolated from stem bark of *Phyllanthus engleri* collected in Tanzania.

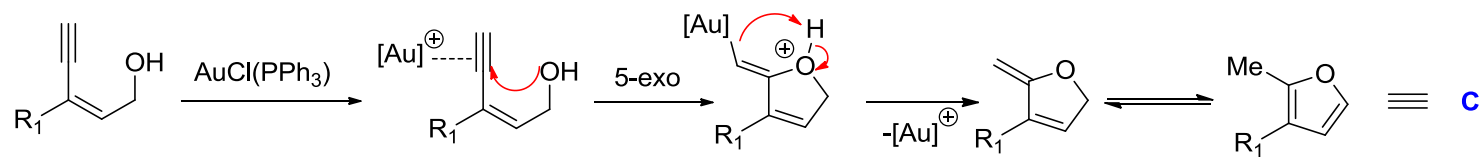
This compound has shown selectivity against renal cancer cells, that why efforts toward total synthesis of Englerin A have been initiated.

- 1) Find structures from A to N.
- 2) Explain the mechanism of formation of C.
- 3) Explain the mechanism of formation of E.
- 4) Explain the formation of the heterodiene which lead to F

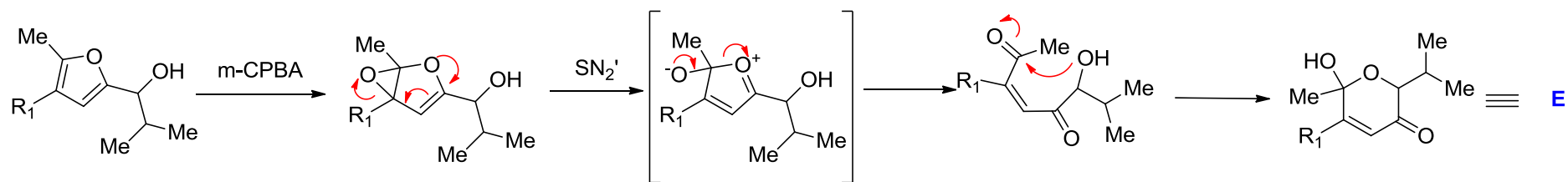




Explain the mechanism of formation of C :



Explain the mechanism of formation of E :



Achmatowicz rearrangement

Explain the formation of the heterodiene which lead to F :

