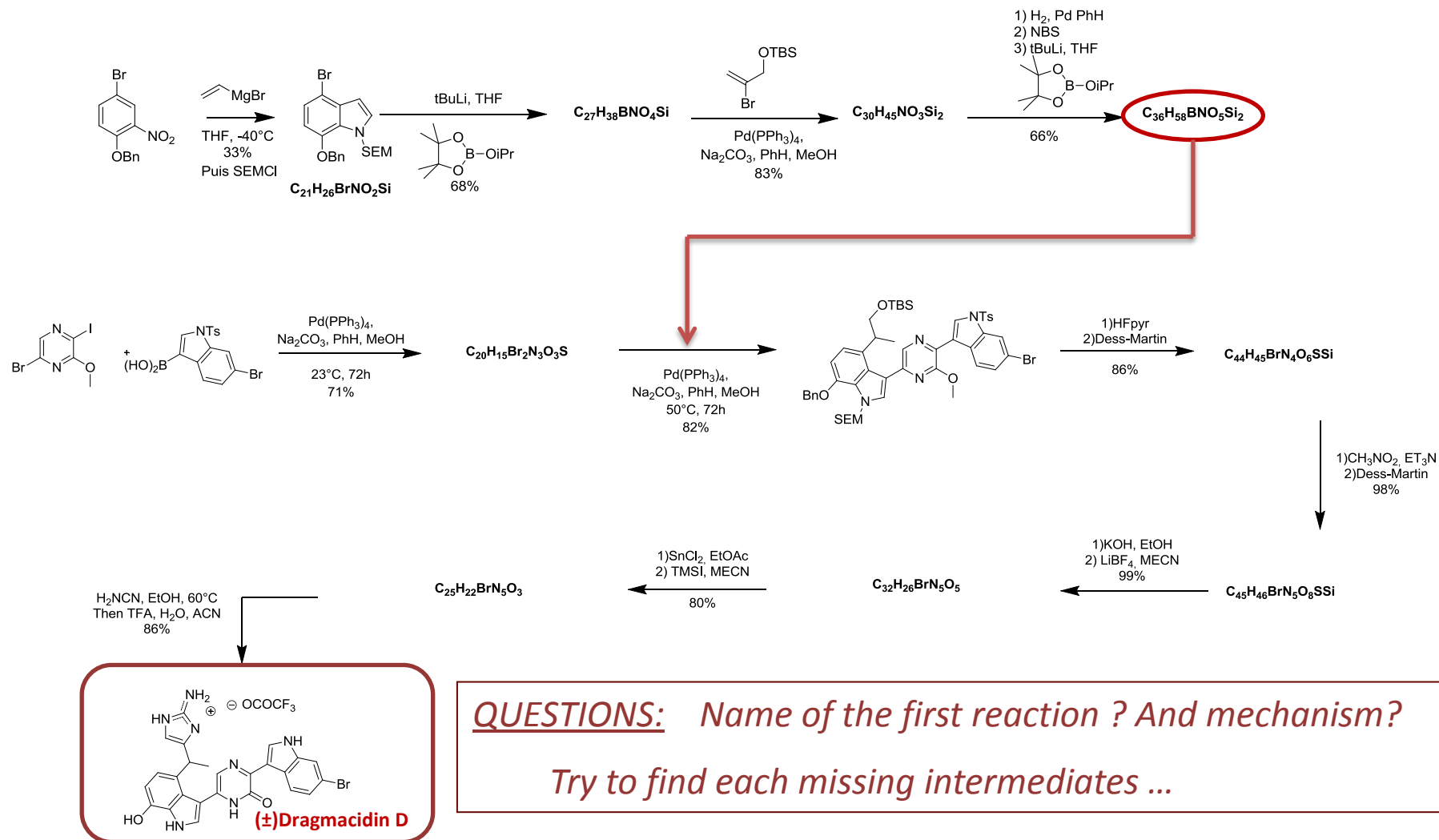


Total synthesis of (\pm)-Dragmacidin D ...



BRACHET Etienne
3rd year PhD student
Chimie thérapeutique
Equipe D3-1

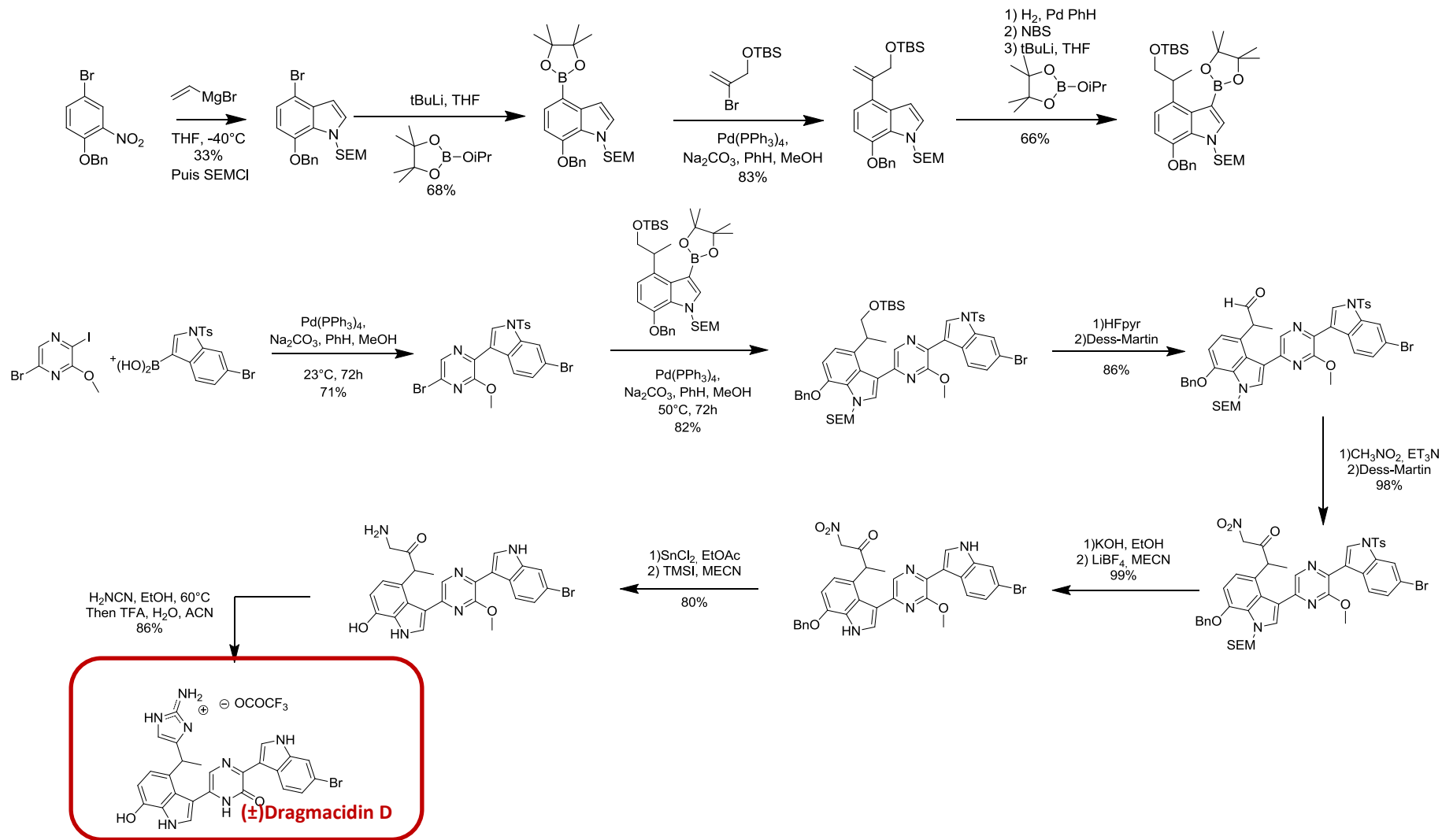
Dragmacidins represent an emerging class of bioactive marine natural products obtained by an exhaustive set of protocols from a number of deep water sponges including Dragmacidon, Halicortex, Spongosorites, and Hexadella, and the tunicate Didemnum candidum. In particular, dragmacidin D is a potent inhibitor of serine threonine protein phosphatases (PP) and an *in vivo* nonsteroidal antiinflammatory agent. Additionally, dragmacidin D was found to selectively inhibit neural nitric oxide synthase (bNOS) in the presence of inducible NOS (iNOS).



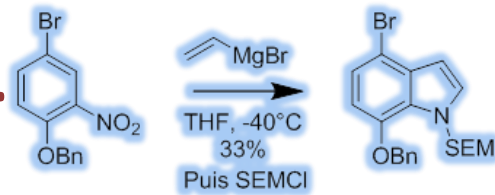
QUESTIONS: Name of the first reaction ? And mechanism?

Try to find each missing intermediates ...

Total synthesis of (±)-Dragmacidin D ...



Total synthesis of (\pm)-Dragmacidin D ...



QUESTIONS: Name of the first reaction? *Bartoli indole synthesis*

