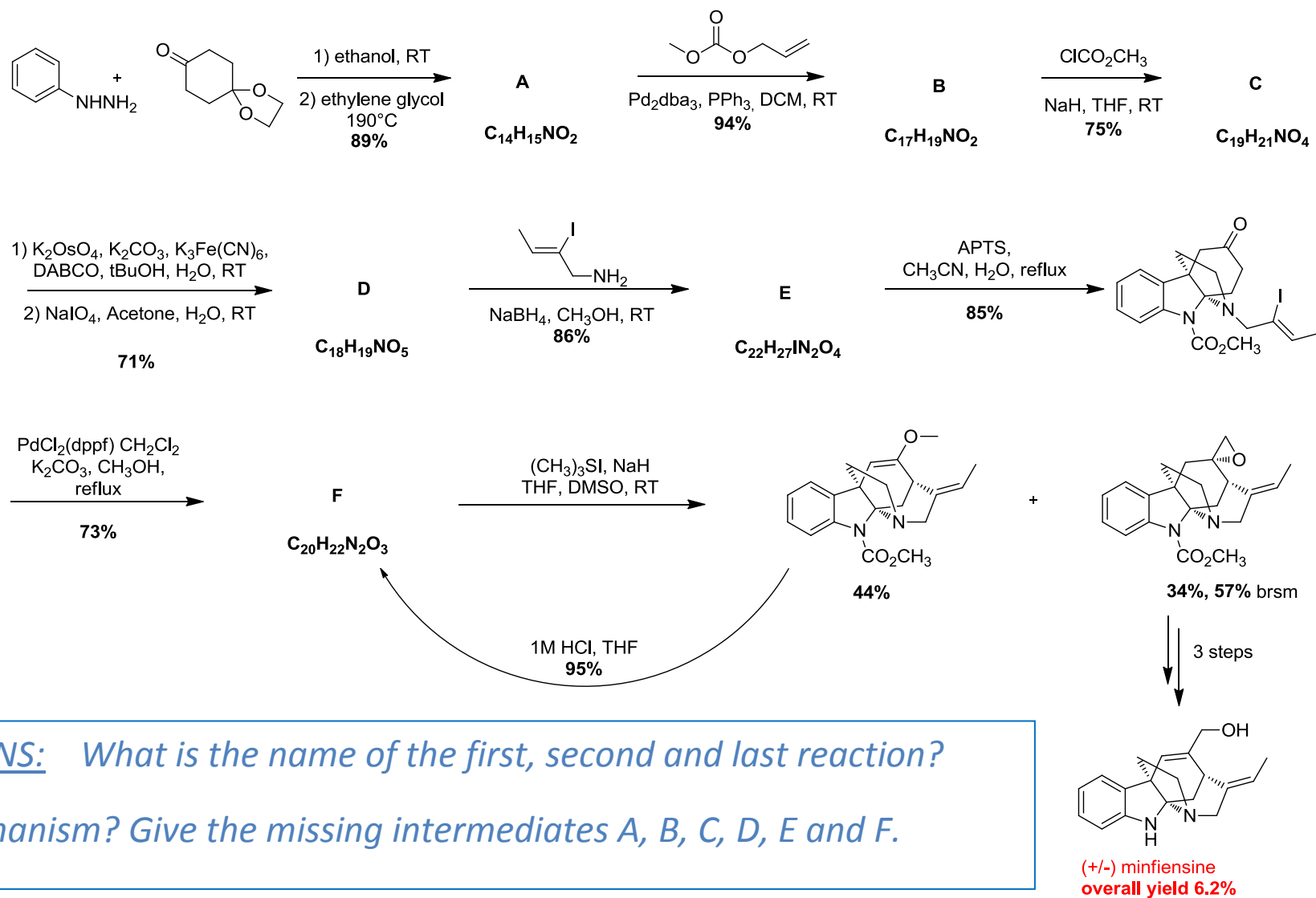


A concise total synthesis of (±)-Minfiensine ...



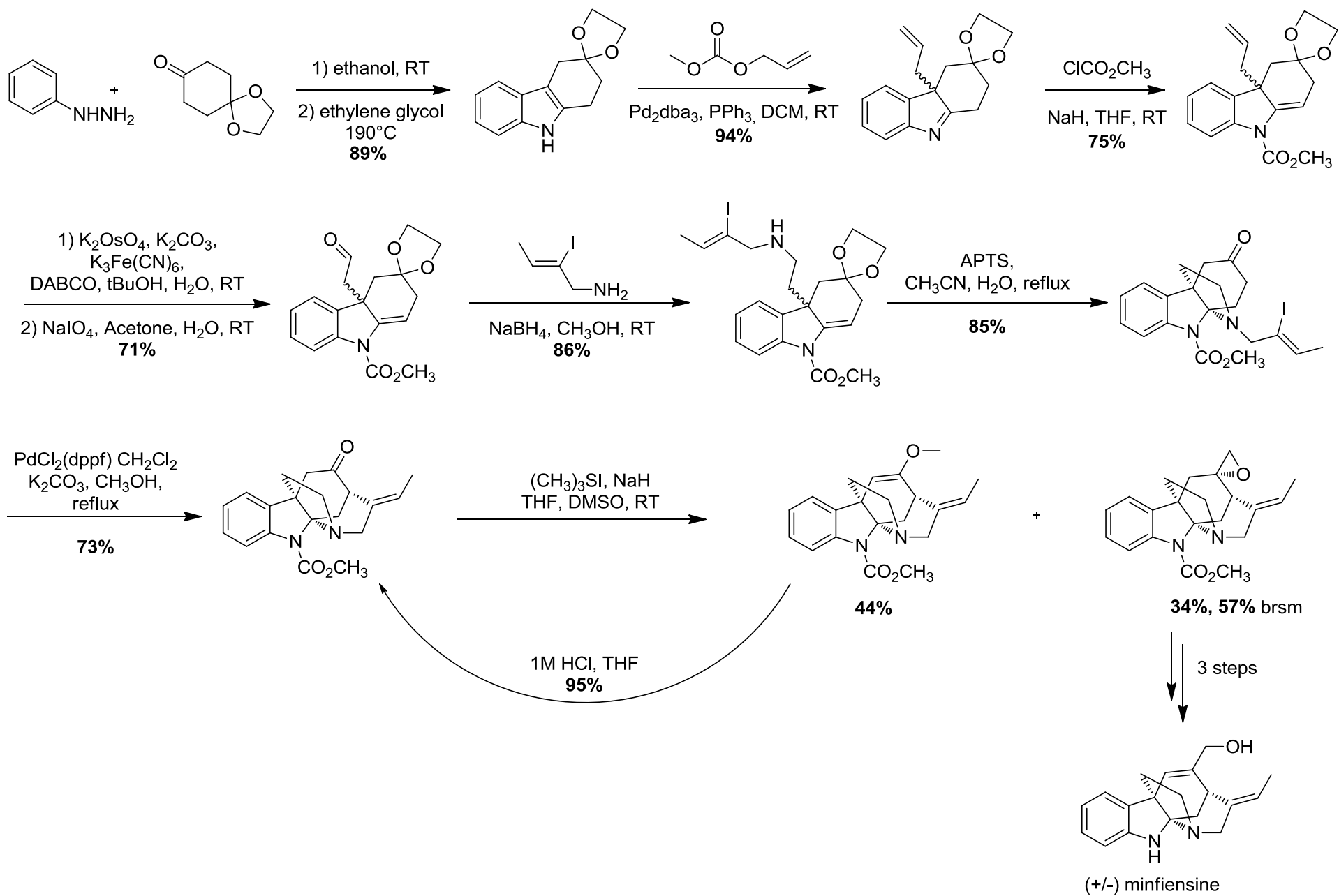
BRACHET Etienne
Doctorant 2^{ème} année
Chimie thérapeutique
Equipe D3-1

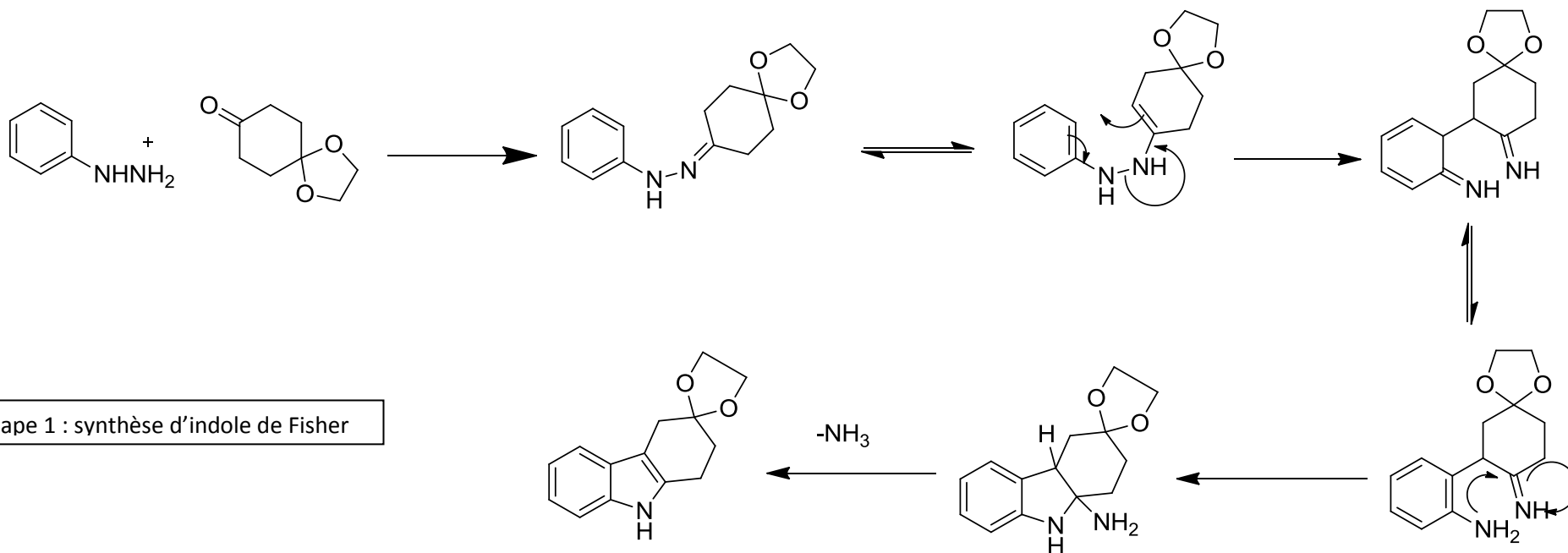
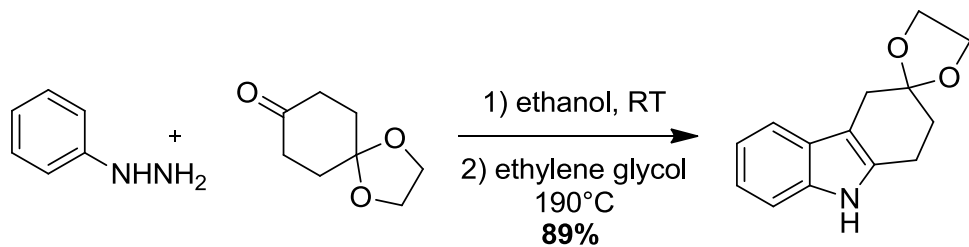
Minfiensine, an indole alkaloid isolated from the African plant *Strychnos minfiensis* by a group led by Massiot in 1989, exhibited significant biological activities including anticancer activities. The molecule features a 1,2,3,4-tetrahydro-9a,4a-(iminoethano)-9H-arbazole tetracyclic substructure, which makes it synthetically challenging. Therefore, this alkaloid and the related akuammiline indole alkaloids have attracted considerable synthetic interests.

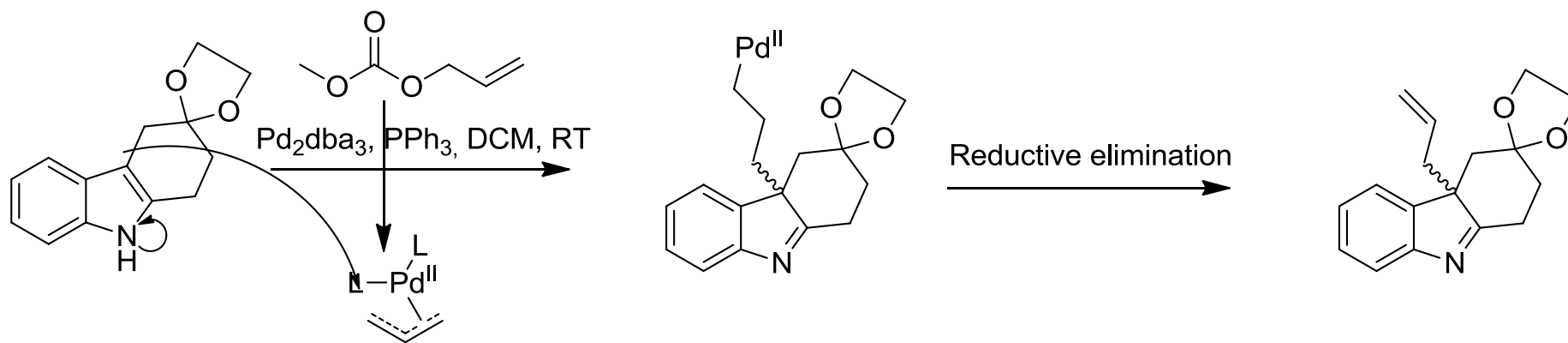
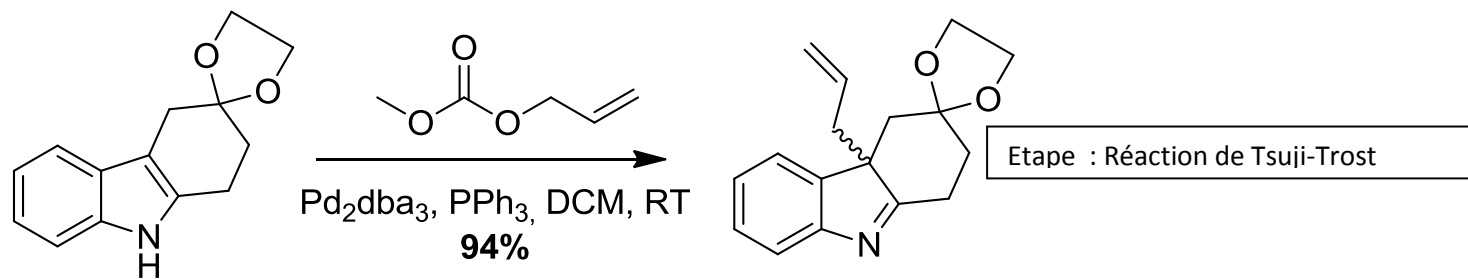


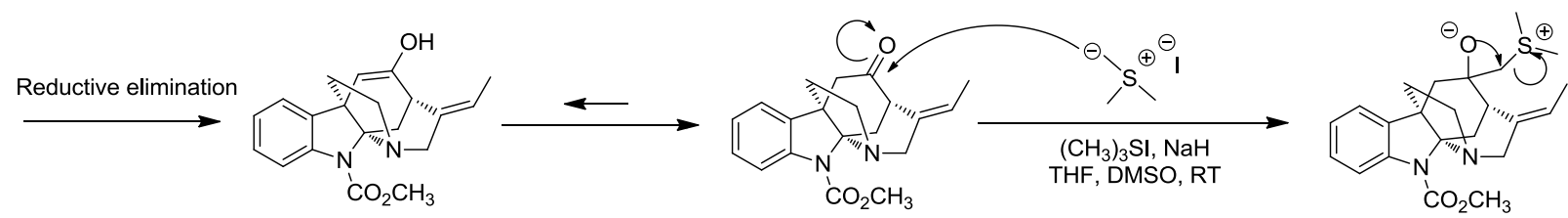
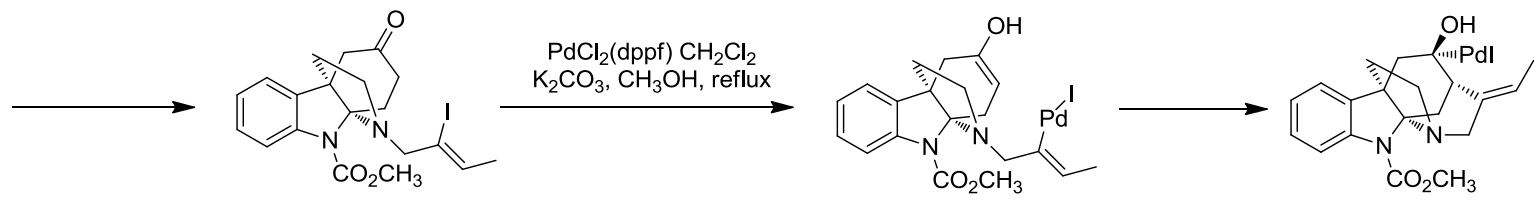
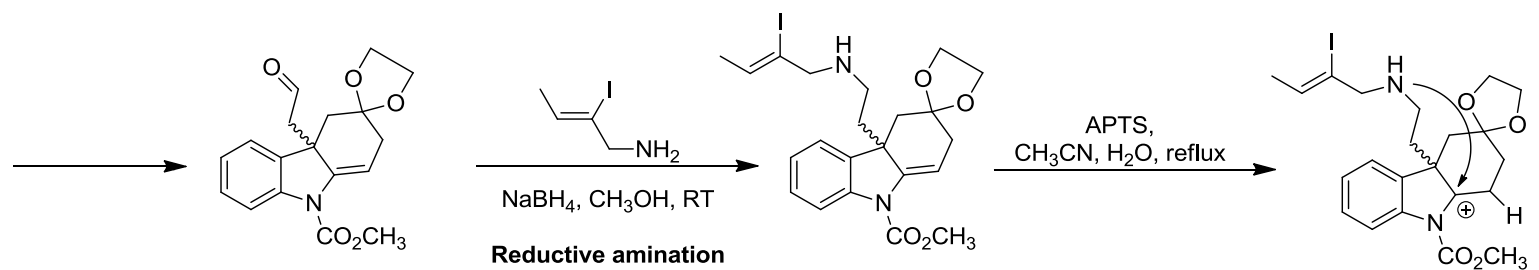
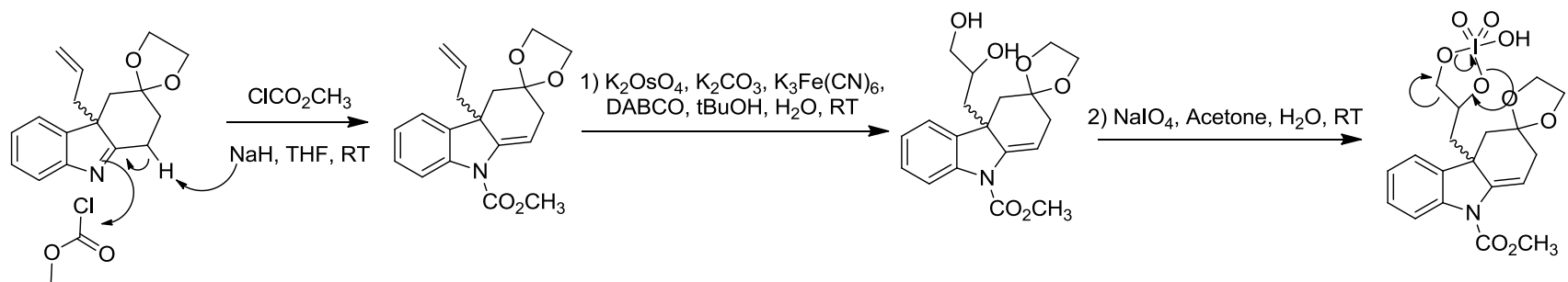
QUESTIONS: What is the name of the first, second and last reaction?

And mechanism? Give the missing intermediates A, B, C, D, E and F.









Org. Lett., 2011, 13 (24), pp 6426–6428

Johnson–Corey–Chaykovsky reaction