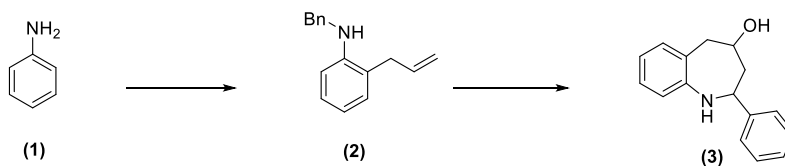


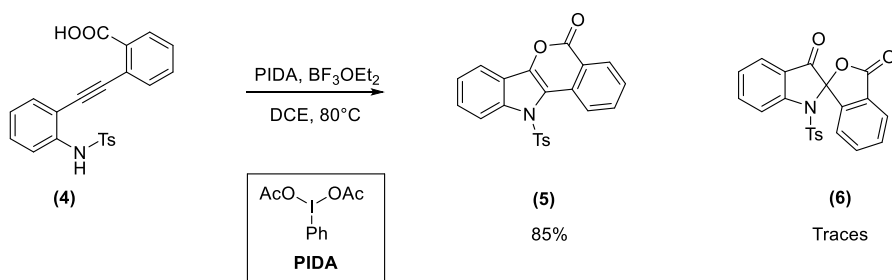
1. Suggest a sequence of transformations to obtain the substituted aniline **(2)** and the benzazepine derivative **(3)**. Provide the required reagents and conditions.



2. Propose a plausible mechanism involved in the following cascade reactions:

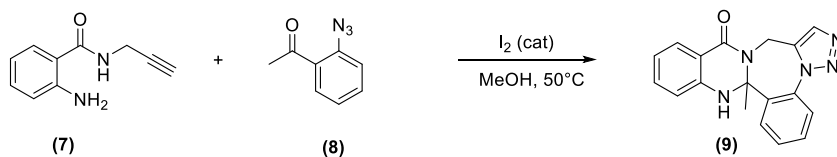
- a) Periodinane-mediated cascade annulations.

✓ Could you explain the high chemoselectivity observed?



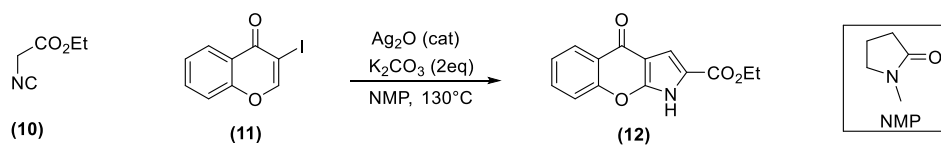
- a) One-pot synthesis of Quinazolinotriazolobenzodiazepines

✓ How would you synthesize the azide **(8)** starting from aniline?

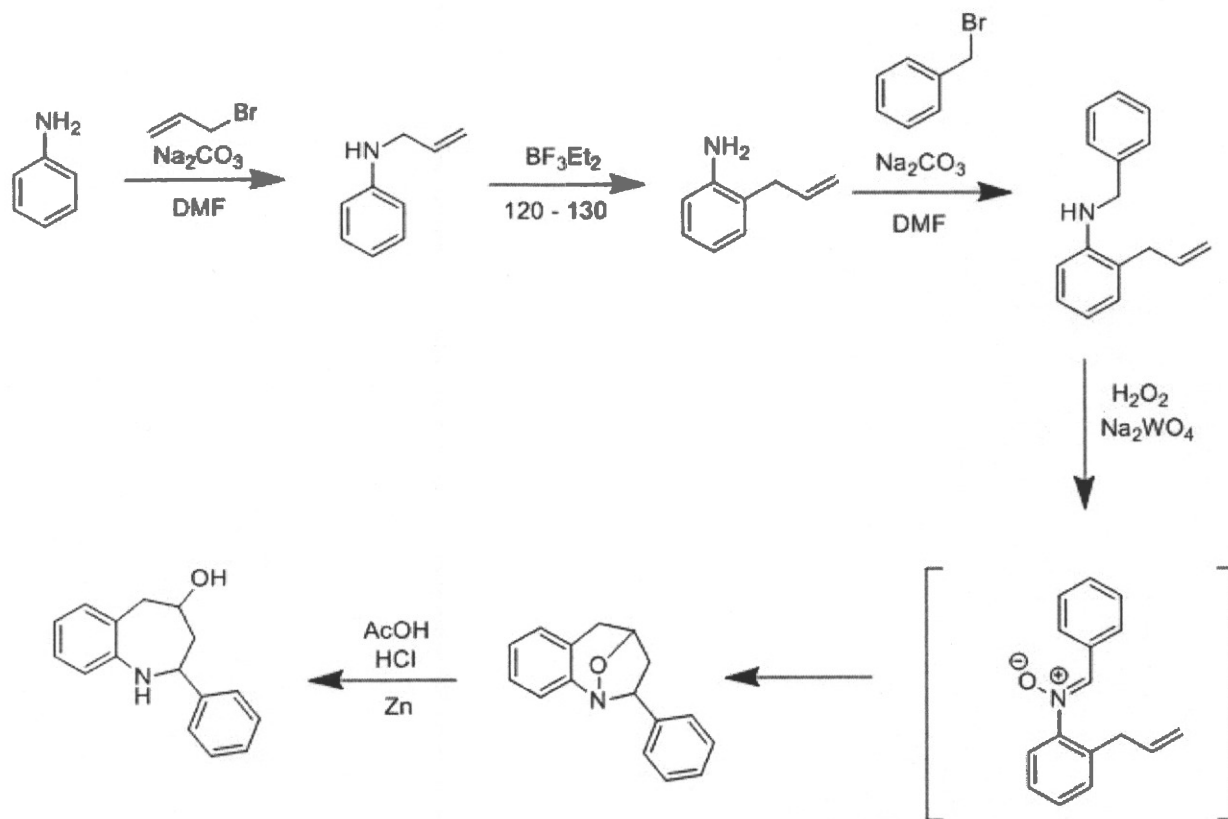


- b) Silver-catalysed synthesis of functionalized chromenones.

✓ How would you prepare **(11)** from a mono-substituted benzene ring?

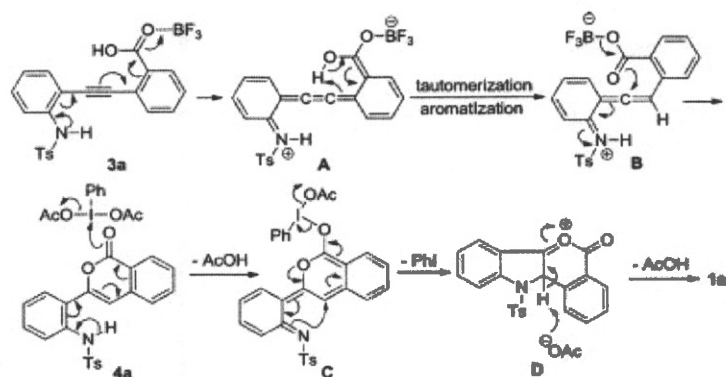


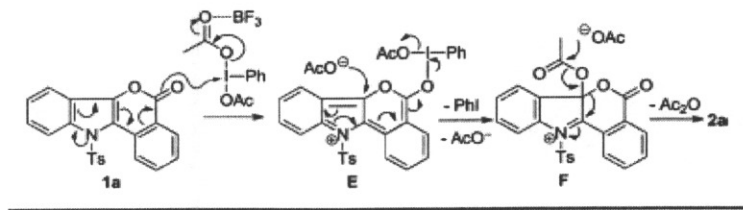
1.



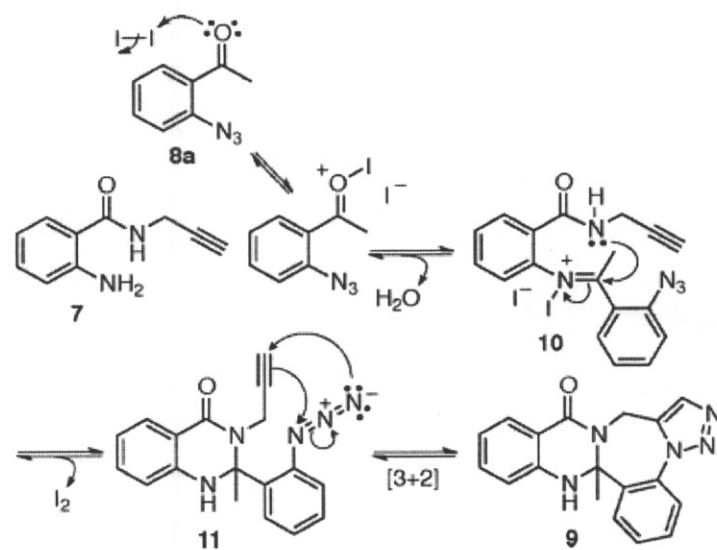
2.

a.





b.



c.

