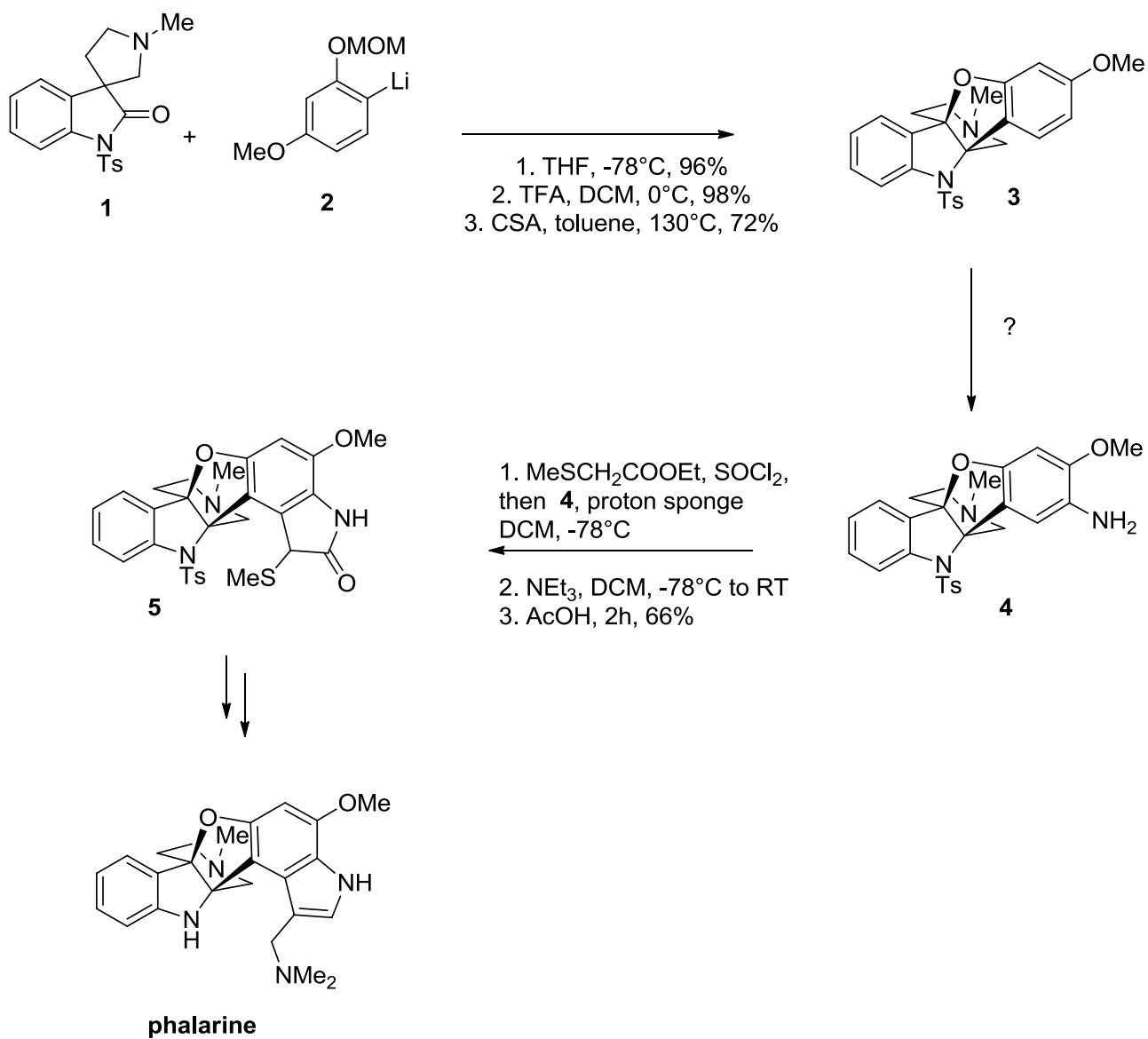


Total synthesis of Phalarine

Proposed by  
Ioulia

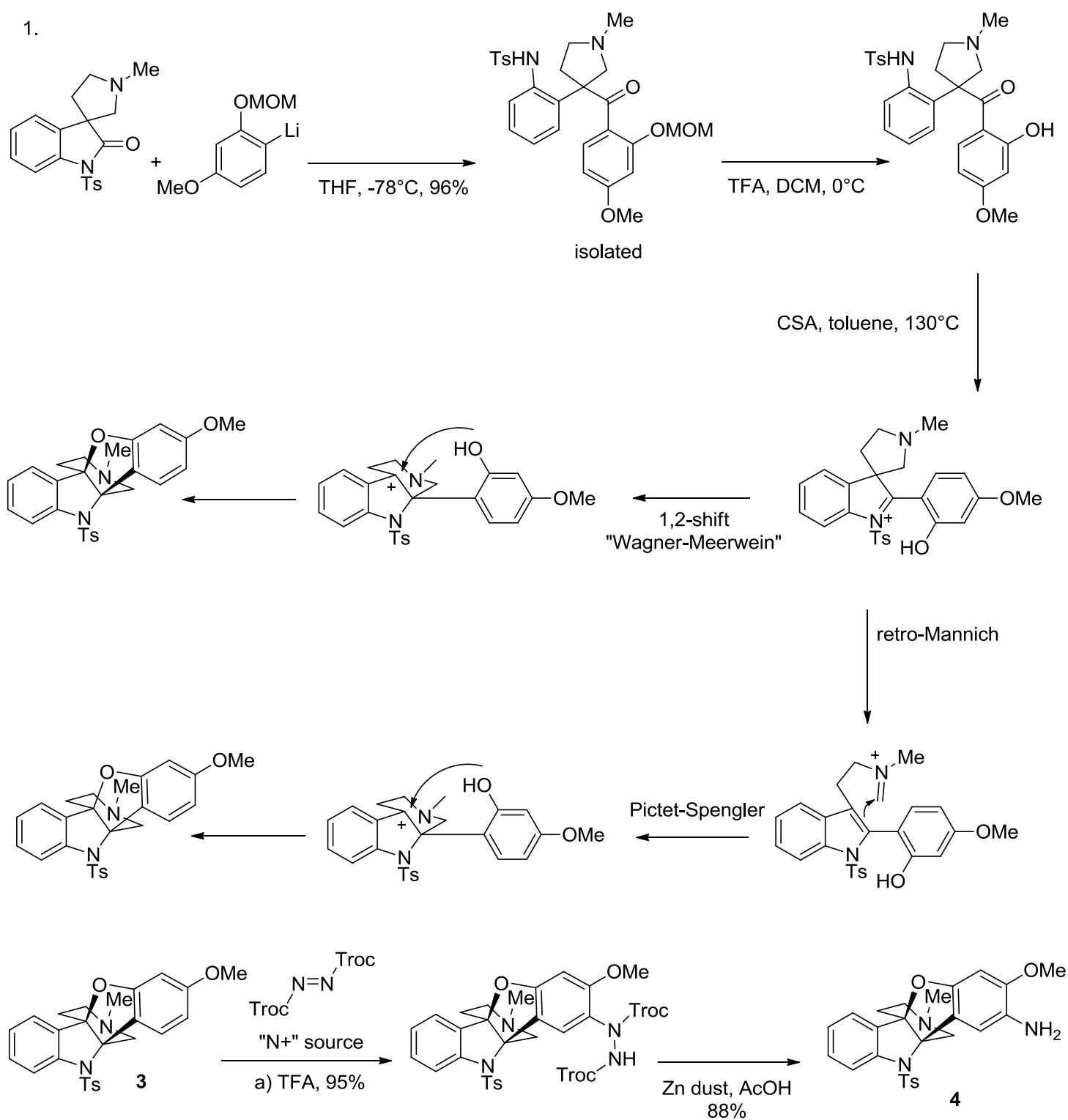


1. Propose a mechanism for the formation of **3** (2 possibilities).
2. Propose a reagent and conditions to synthesize **4** from **3**.
3. Propose a mechanism for the reaction furnishing **5**. What is the name of this reaction ?

Ref : Li, C.; Chan, C.; Heimann, A.C.; Danishefsky, S.J. *Angew. Chem. Int. Ed.* **2007**, 46, 1444-1450.

Total synthesis of Phalarine

Proposed by Ioulia



Troc = trichloroethylchloroformate

3. Gassman oxindole synthesis

