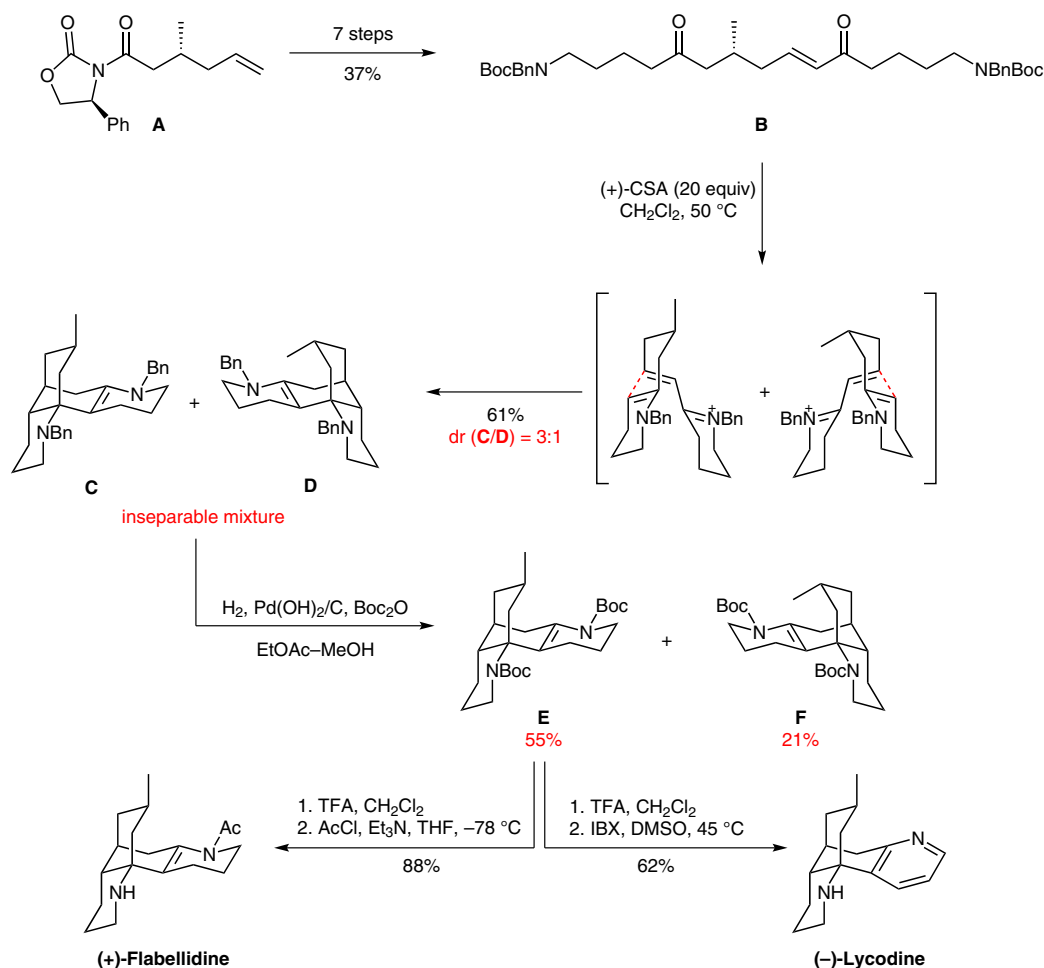


Syntheses of (+)-Flabellidine and (–)-Lycodine



Significance: In the wake of their interesting biological activities, *Lycopodium* alkaloids have attracted great attention from the synthetic community. A biosynthetic pathway has been proposed, in which the skeleton is constructed via a cyclization cascade. Inspired by this hypothesis, Takayama and co-workers report a successful implementation of this strategy leading to a synthesis of (–)-lycodine and the first synthesis of (+)-flabellidine.

Comment: Subjecting **B** to (+)-CSA triggered a cascade resulting in the formation of four rings and three contiguous stereogenic centers. Upon one-pot debenylation–*N*-Boc protection of the **C** and **D** mixture, the obtained diastereomers **E** and **F** were separated, with **E** being further elaborated to the target natural products (+)-flabellidine and (–)-lycodine.