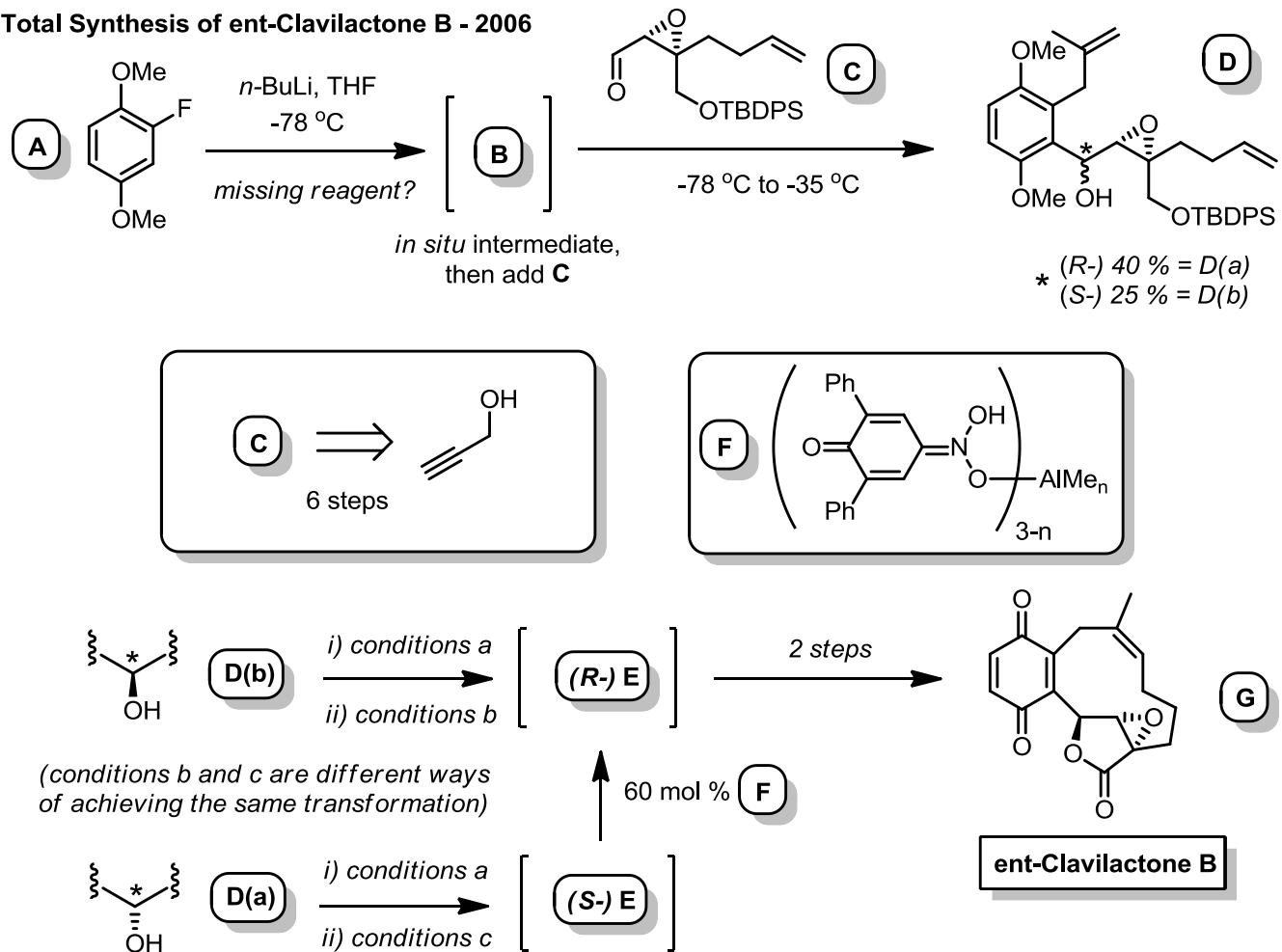
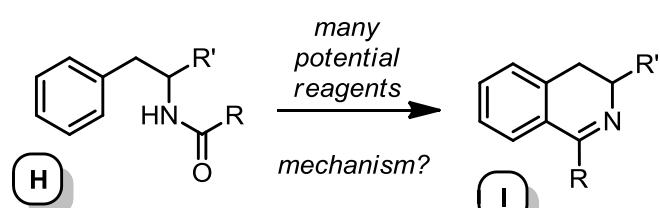


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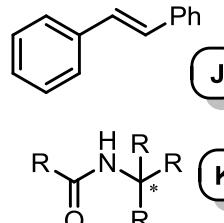
Total Synthesis of ent-Clavilactone B - 2006



Some named reactions...

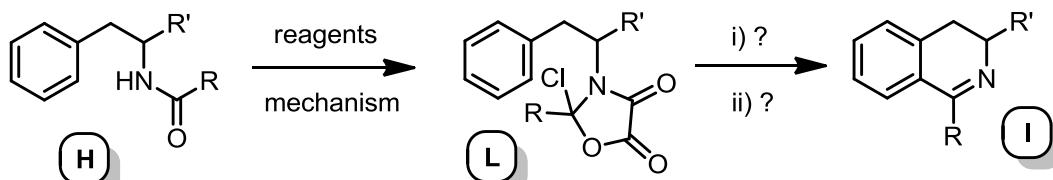


J is a side product when **R'** is Ph. Proceeds via retro version of a reaction used to make substrates such as **K**. **C*** would be a stabilised carbocation...



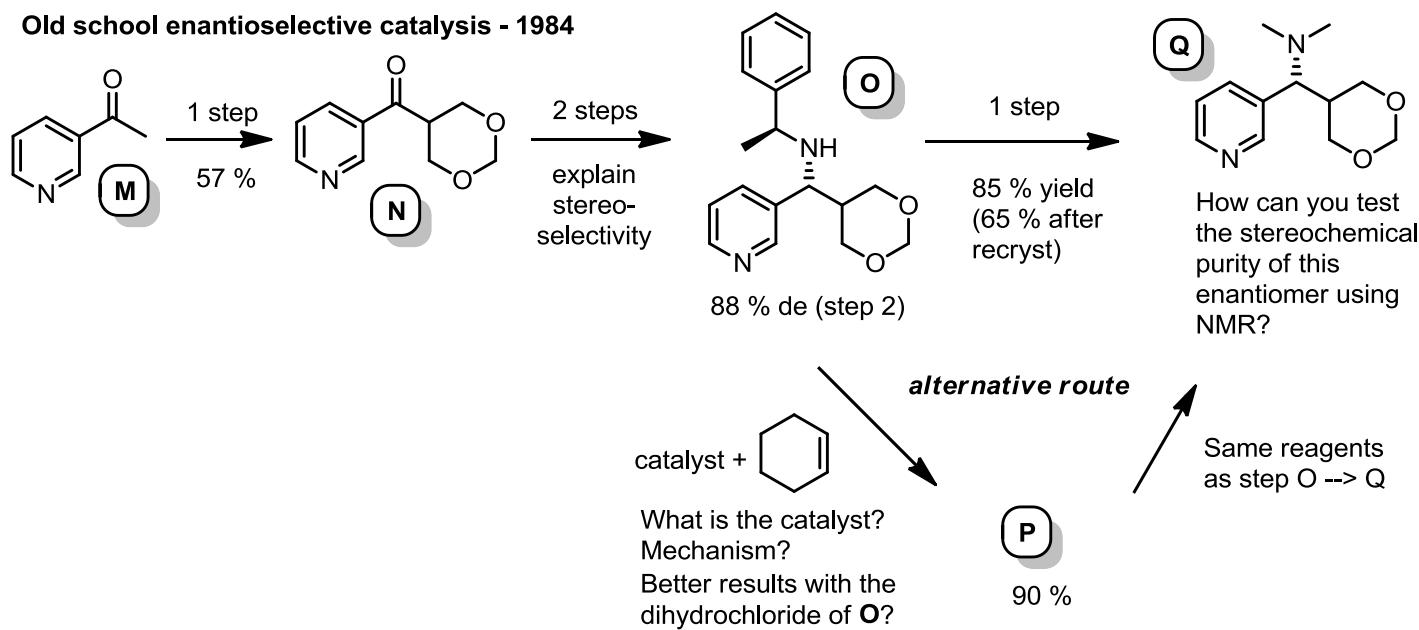
How would you make **H**?

Alternate method to avoid styrene side-products

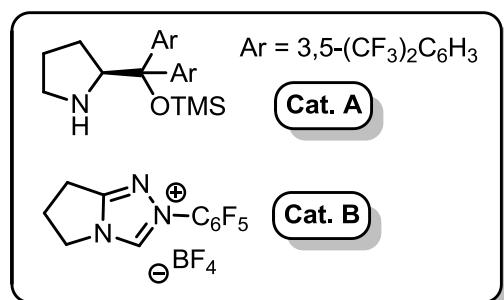
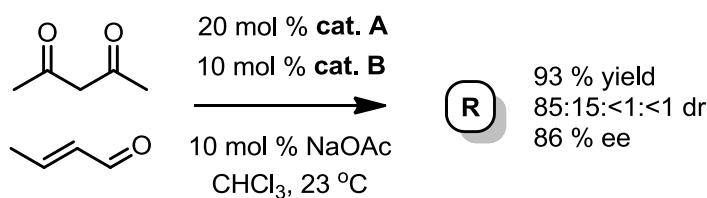


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Old school enantioselective catalysis - 1984



Tandem catalysis cascade chemistry - 2009



Mechanism and absolute stereochemistry?

Clues: Use Cat A first. Cat B is ineffective without base.
What does umpolung mean?

Synthesis of Cat. B

