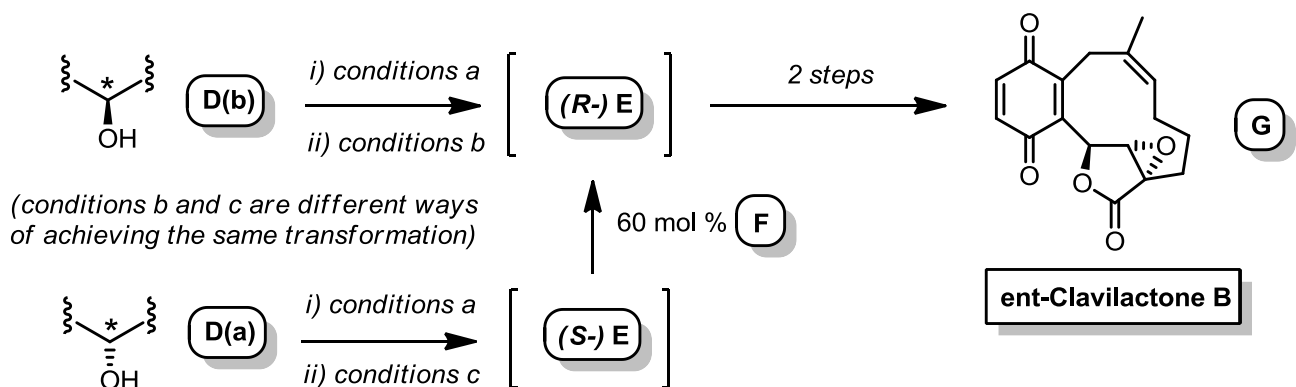
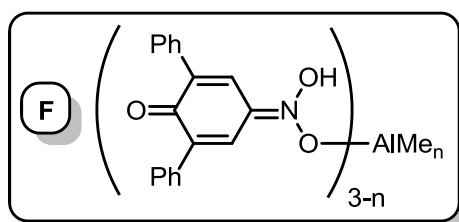
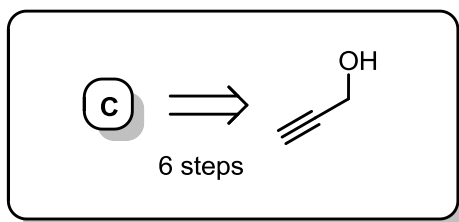
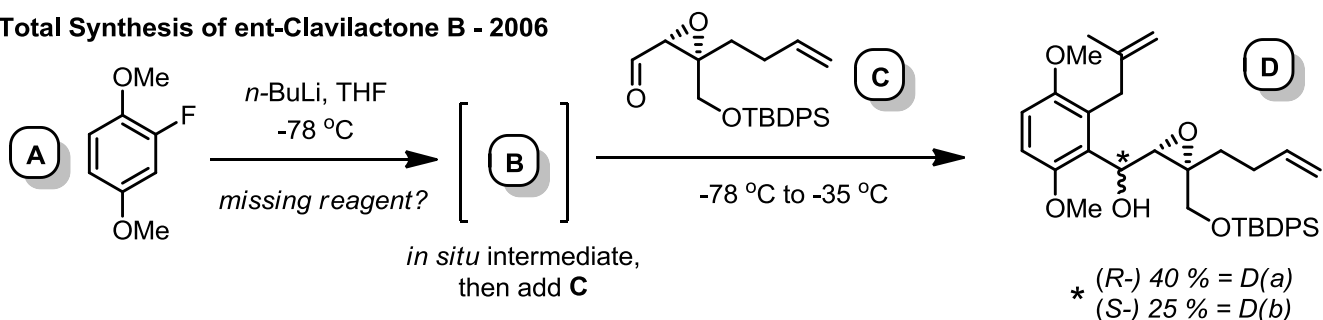
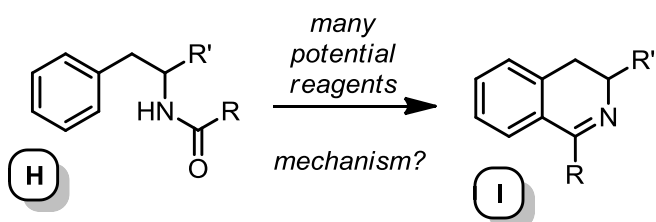


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Total Synthesis of ent-Clavilactone B - 2006

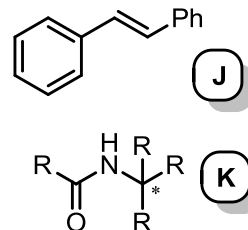


Some named reactions...

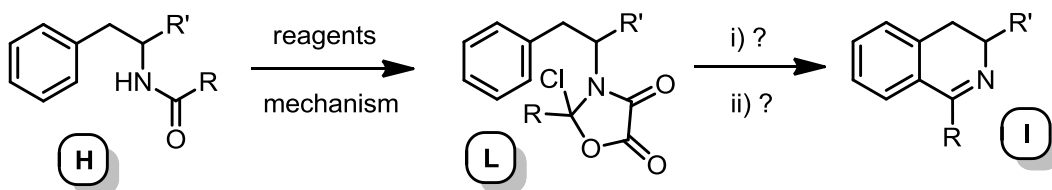


How would you make H?

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...

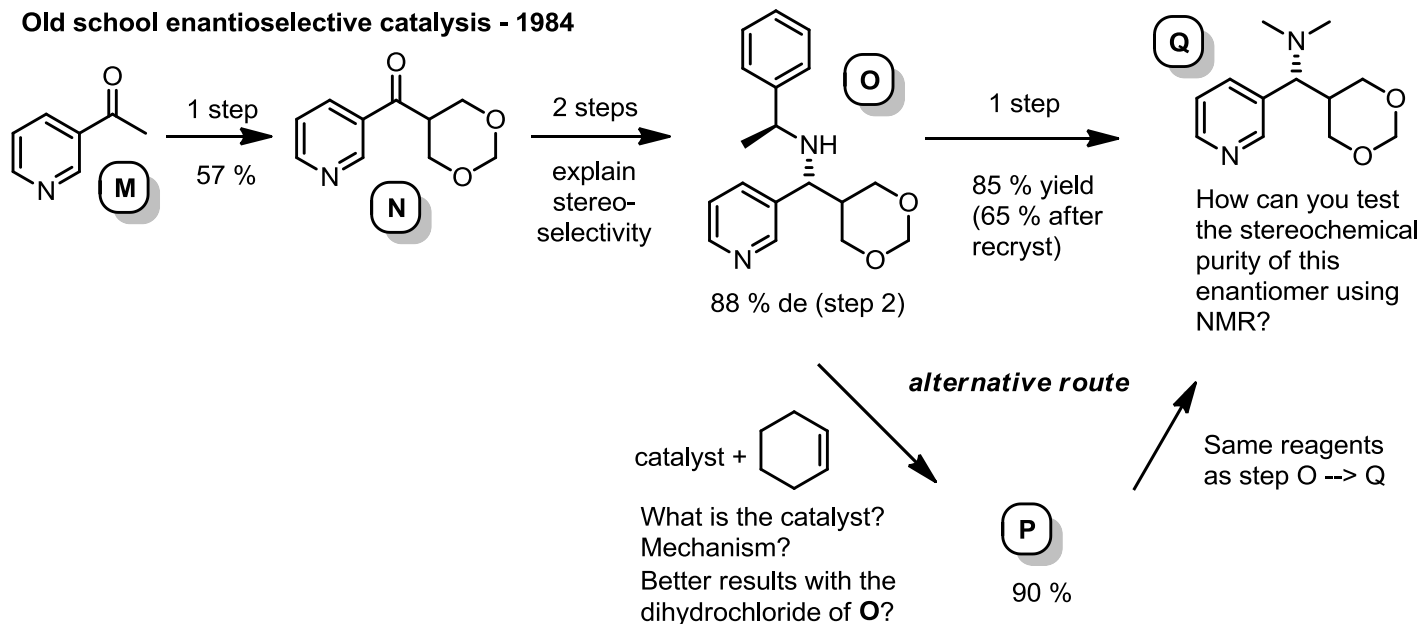


Alternate method to avoid styrene side-products

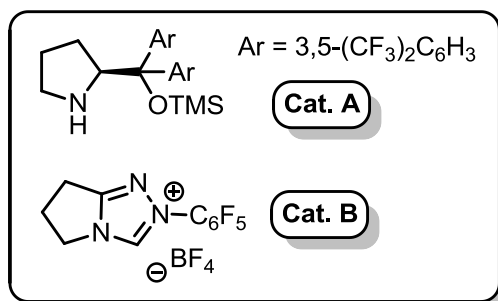
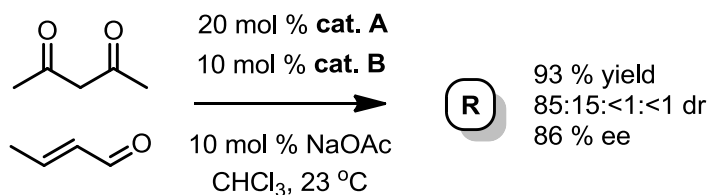


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Old school enantioselective catalysis - 1984



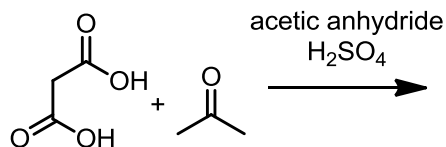
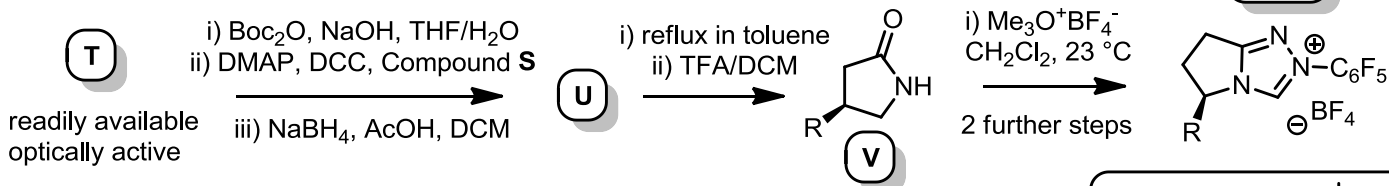
Tandem catalysis cascade chemistry - 2009



Mechanism and absolute stereochemistry?

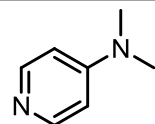
Clues: Use Cat A first. Cat B is ineffective without base.
What does umpolung mean?

Synthesis of Cat. B



what happens to S upon heating?

DMAP



DCC

