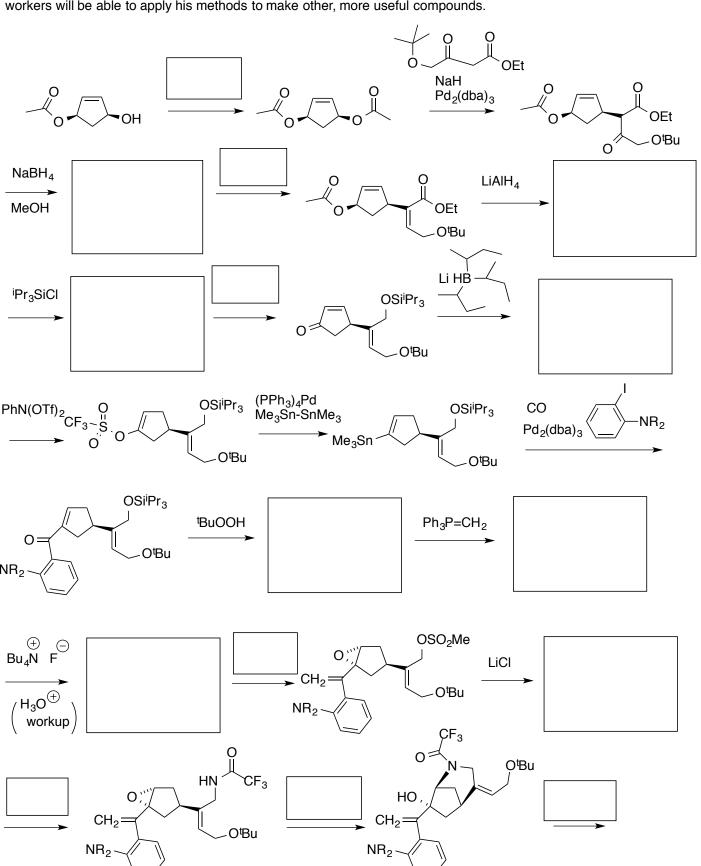
Synthesis of strychnine, Overman, UC Irvine, 1993.

Overman is an organic methodologist. His job is to develop new reactions or improve the use of old reactions for use in organic synthesis. He chooses synthetic targets that he thinks would be difficult to make by existing methods. Strychnine's multiple fused rings are difficult to put together. In demonstrating how to do so, Overman hopes other workers will be able to apply his methods to make other, more useful compounds.



Mannich reaction: the reaction of an enol with an iminium ion.

Provide a mechanism, paying attention to the definition of the reaction.

Fill in the blanks:

Tropanone, **Robinson**, **1917**: Robinson manages to set up a complete synthesis in one flask using a "domino"-like series of reactions under acidic conditions.

