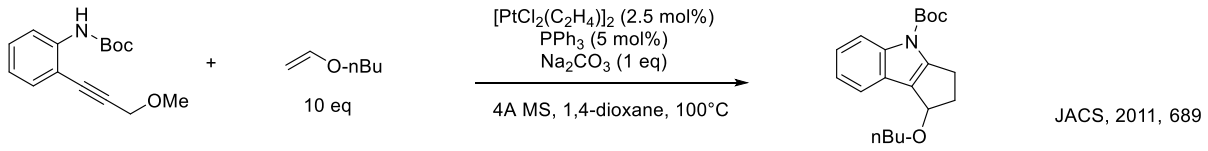
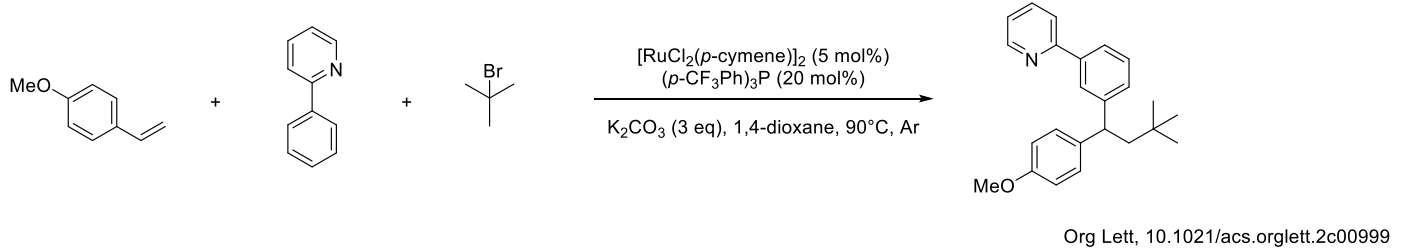


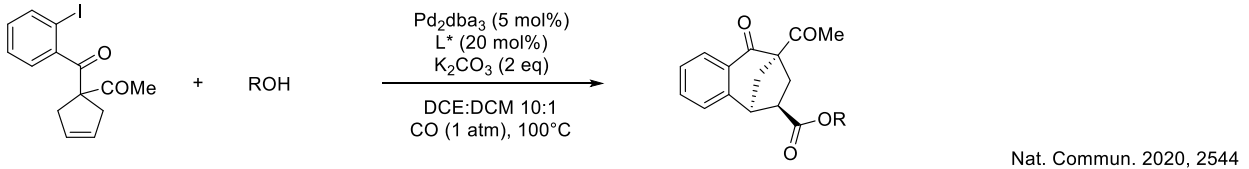
1) Please provide a mechanism for the following reaction.



2) Please provide a mechanism for the following reaction.



3) Please provide a mechanism for the following reaction.



4) Please provide the structures of intermediates **A**, **B** and **D**, give the mechanism of 4) and 14), and propose the reaction conditions from 9) to 13).

