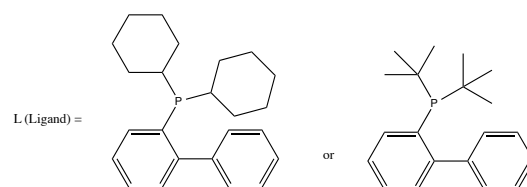
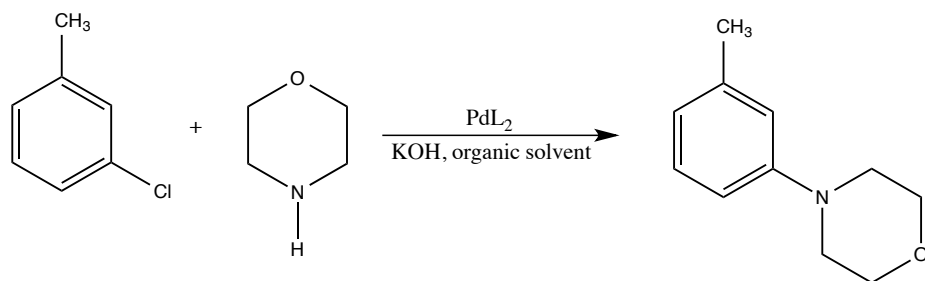


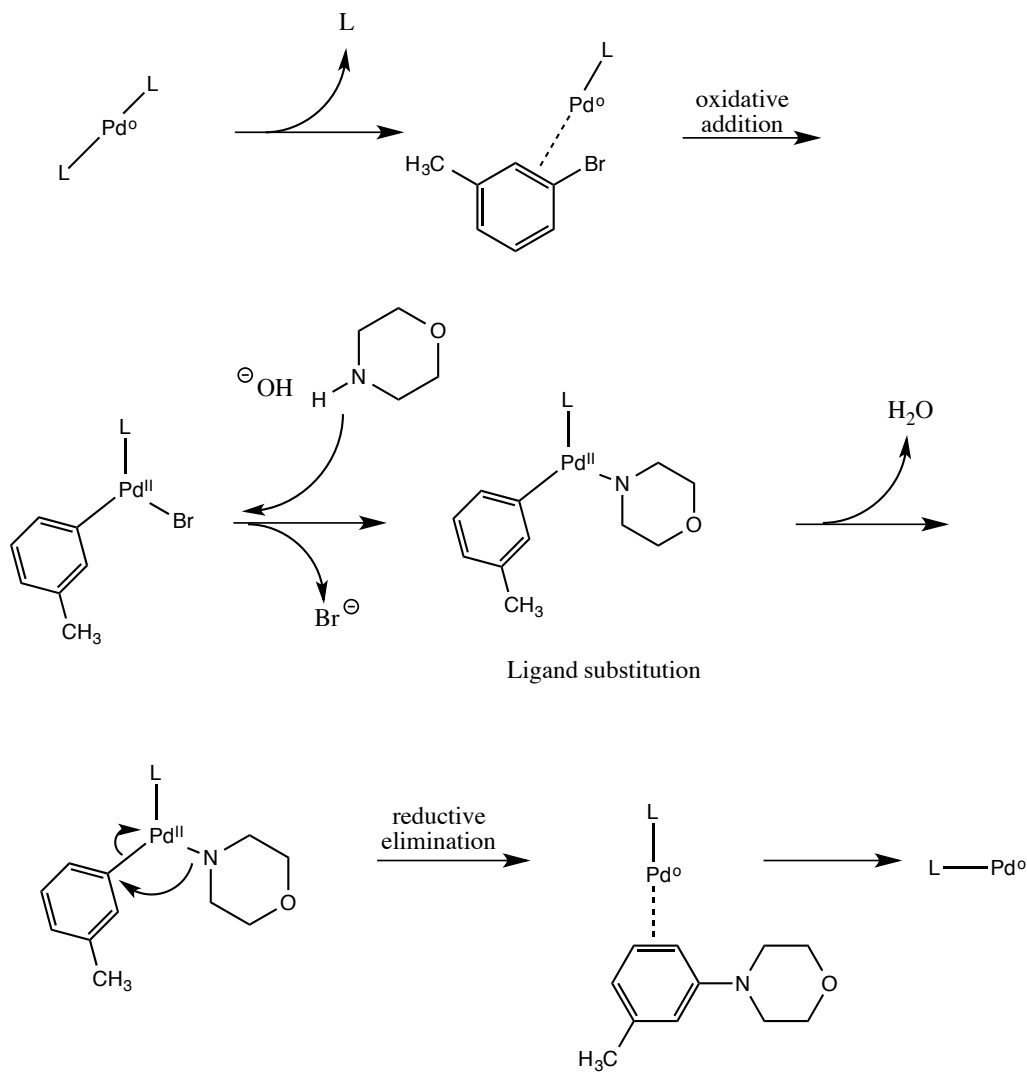
Chem 345 – Organic Reactions Chapter 23
Prepared by José Laboy, MS
<http://www.chem.wisc.edu/areas/clc> (Resource page)

Burtwald-Hartwig Amination

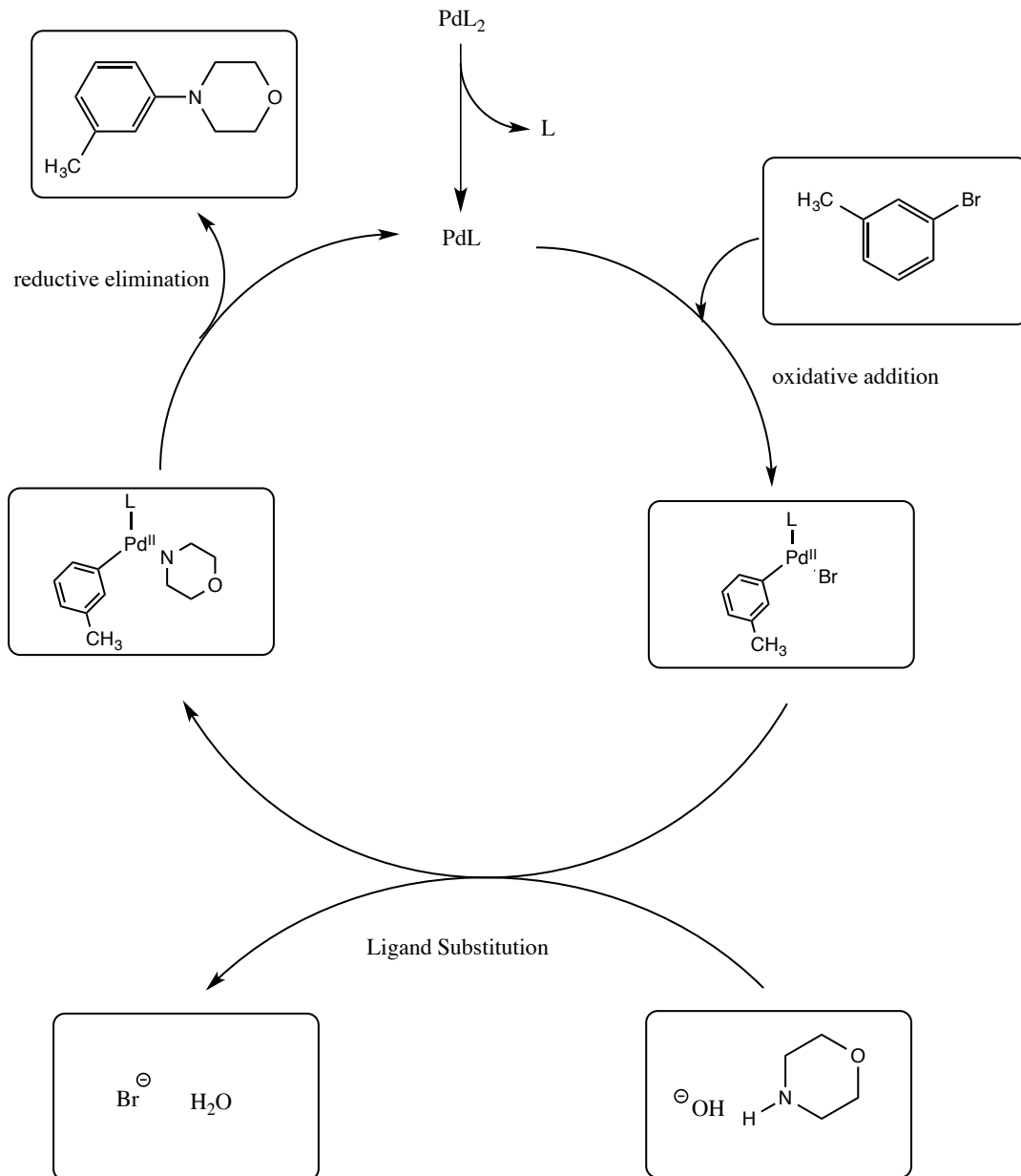
Reaction:



Mechanism:



Another way of looking at the mechanism is to view the reaction cycle. See next page.



The coupling affords an aromatic amine. The use of a primary amine in this reaction affords a secondary amine product. Also tertiary amines cannot react in this process because the amine has to be able to lose a proton. The mechanisms vary but they resemble the Suzuki reaction.