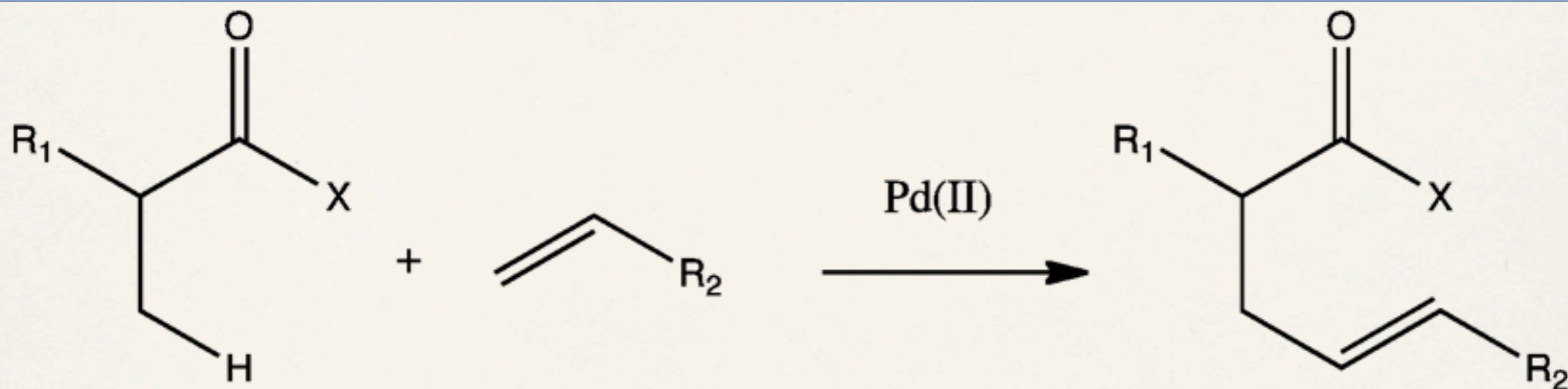


literature presentation

Xin Zhang

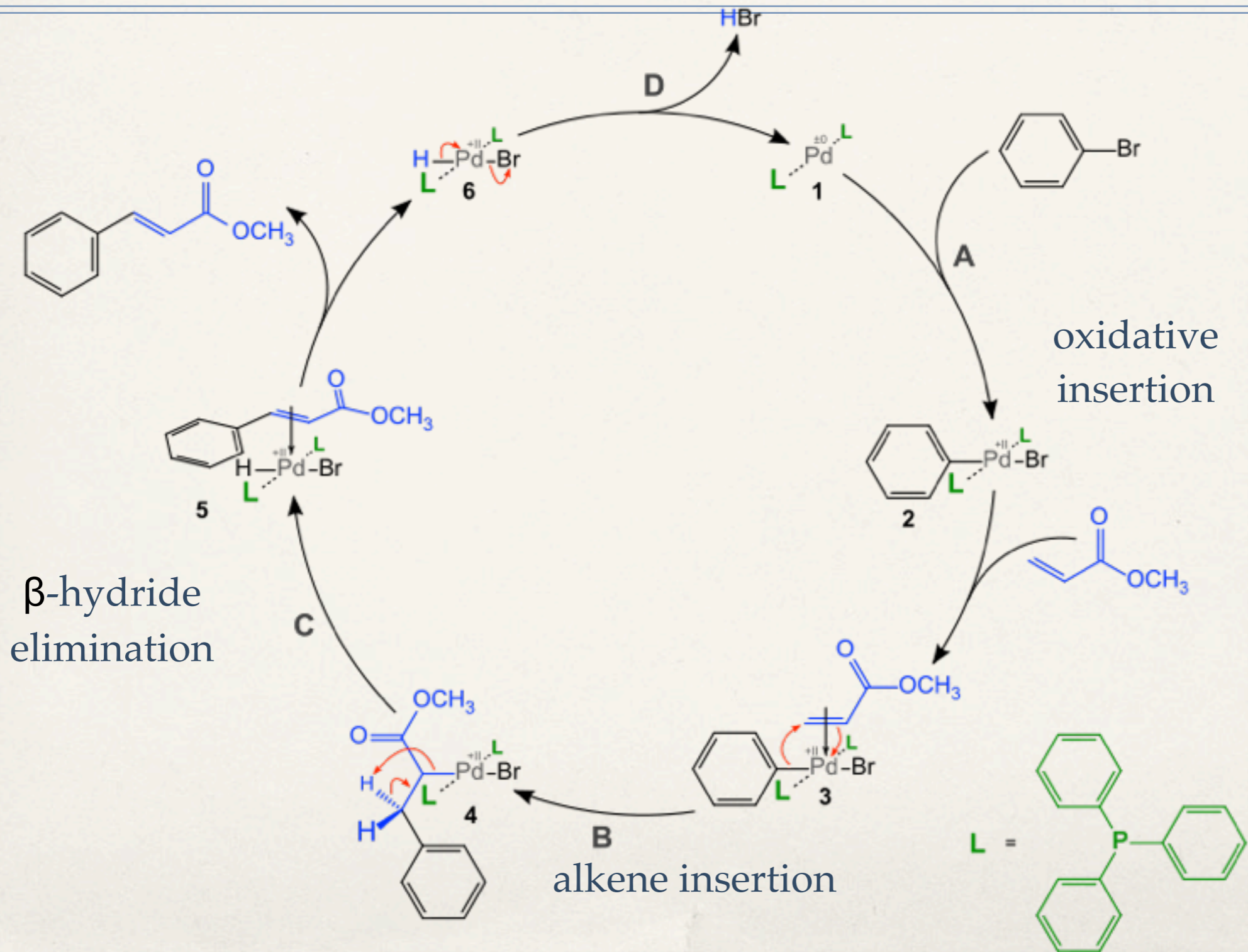
10/08/2010

Pd(II)-Catalyzed Olefination of sp^3 C-H Bonds

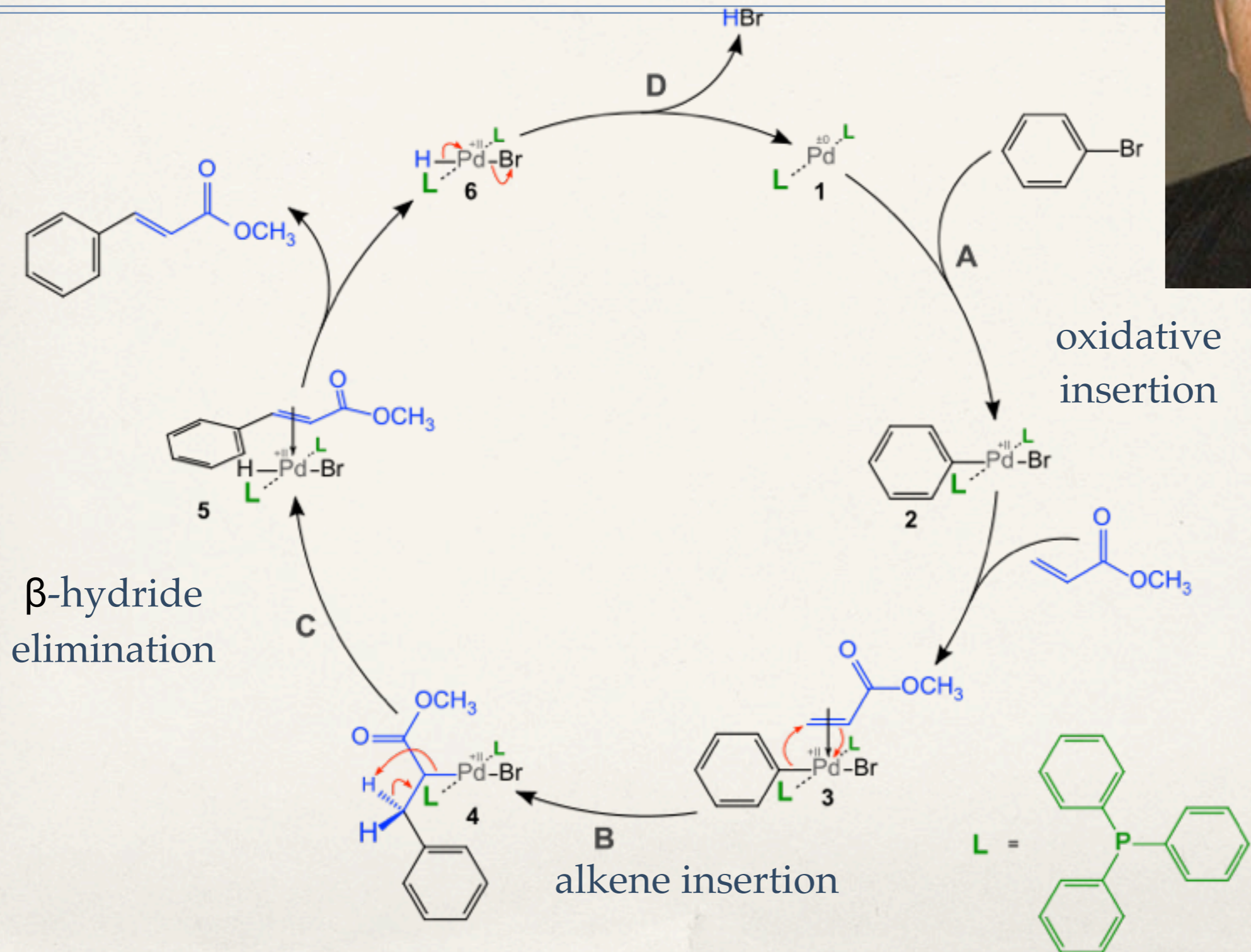


- ❖ Masayuki Wasa, Keary M. Engle, and Jin-Quan Yu*
- ❖ **J. AM. CHEM. SOC. 2010, 132, 3680–3681**

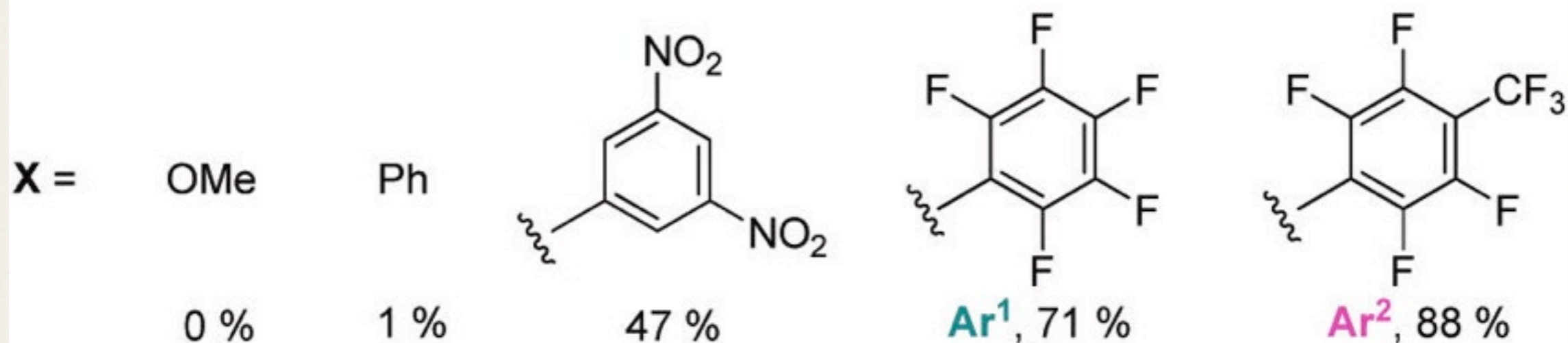
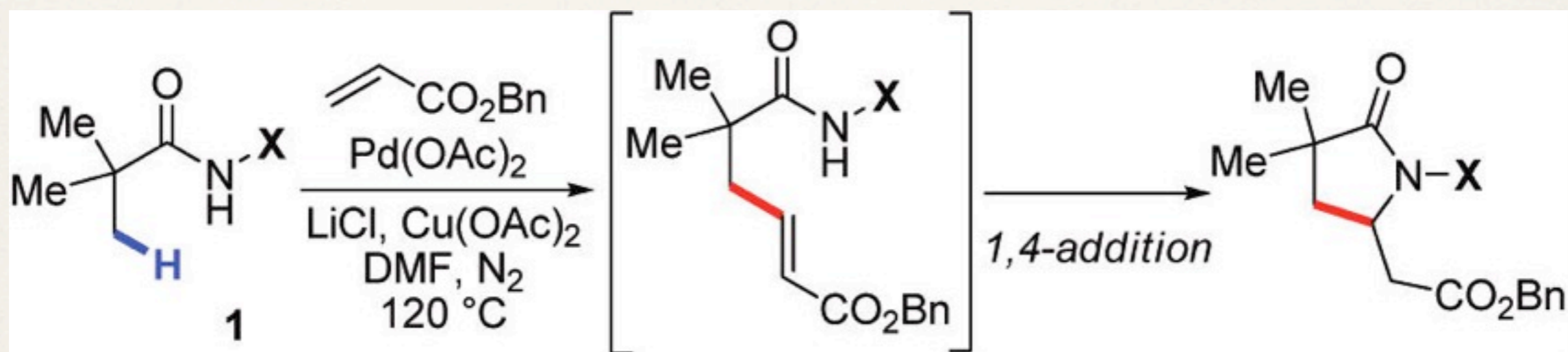
Heck reaction



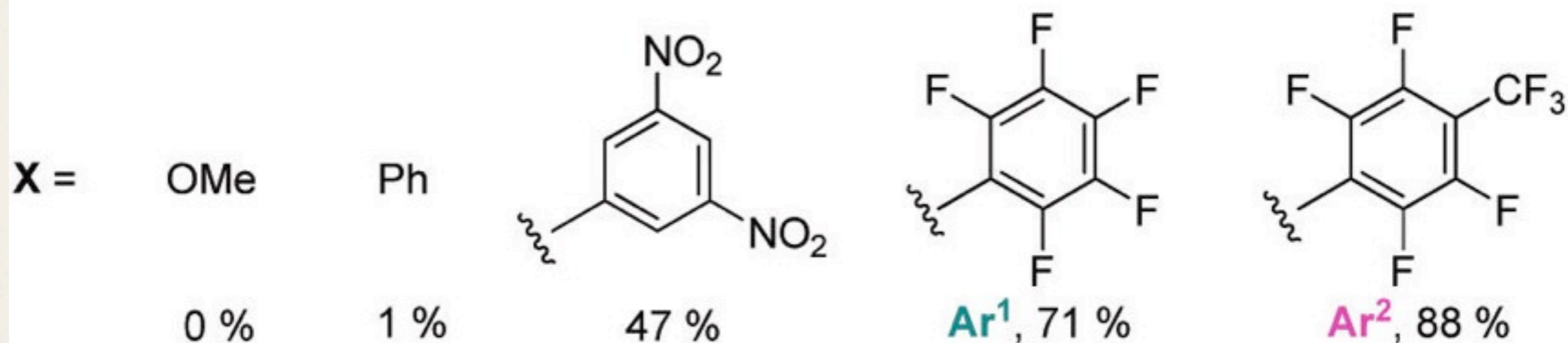
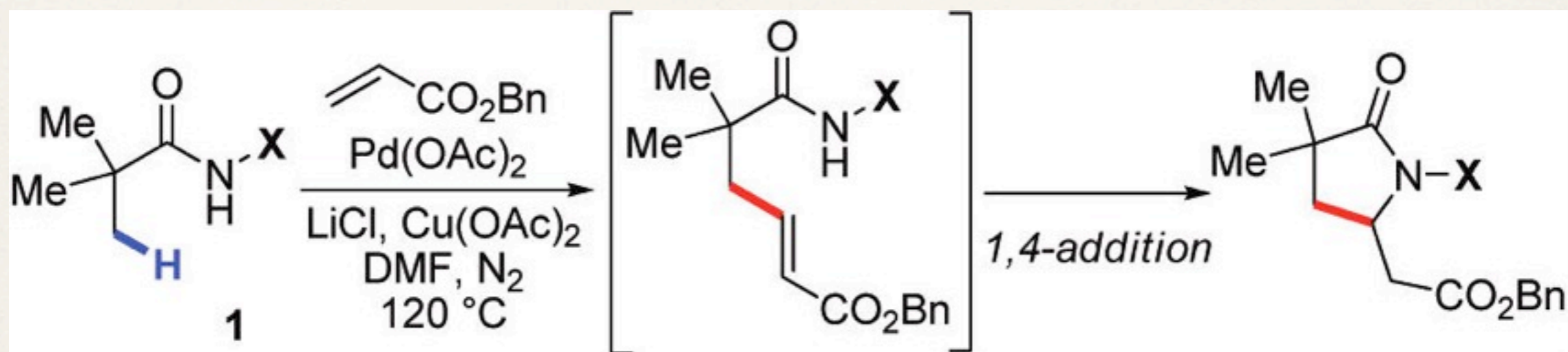
Heck reaction



Examples in the literature

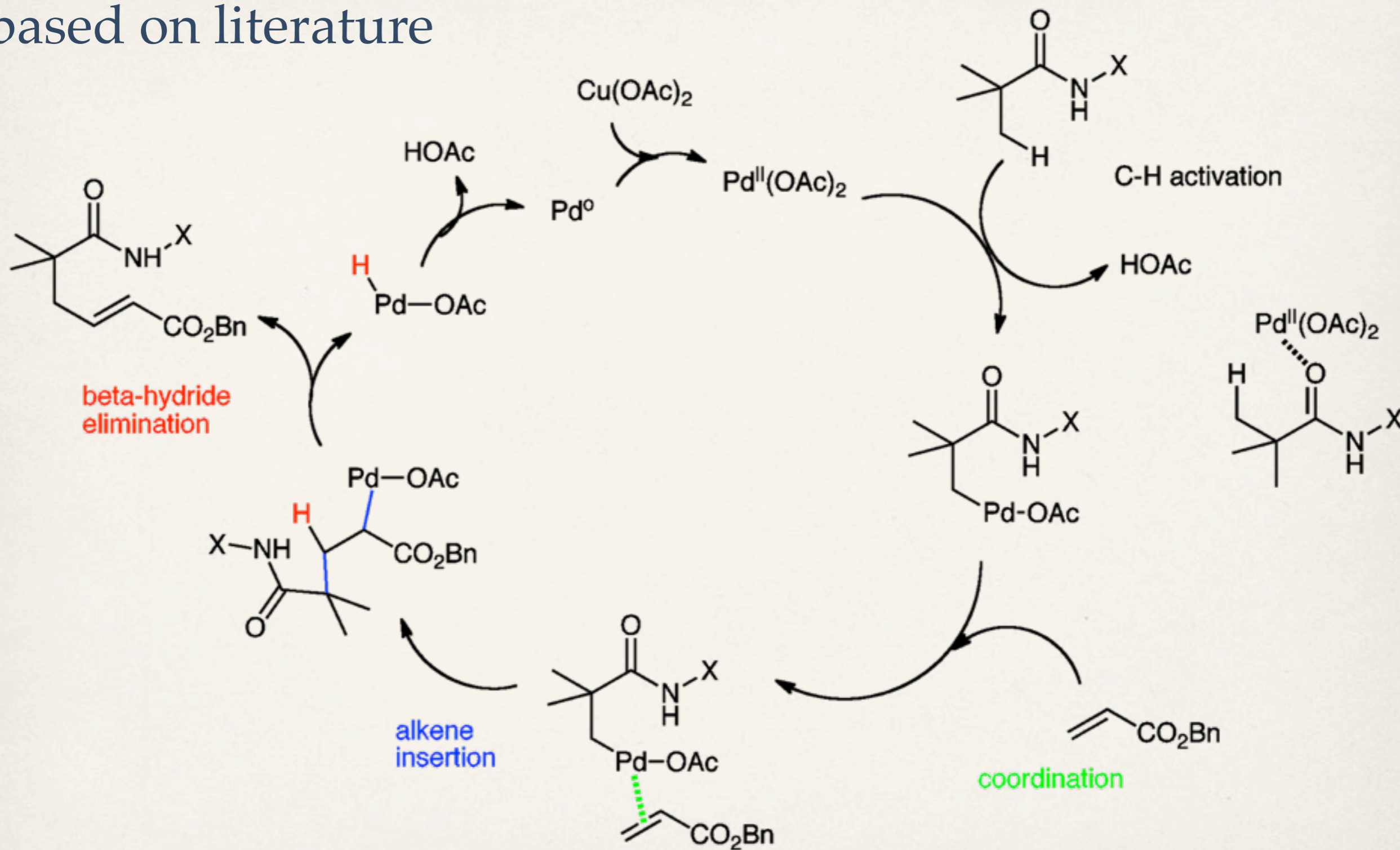


Examples in the literature



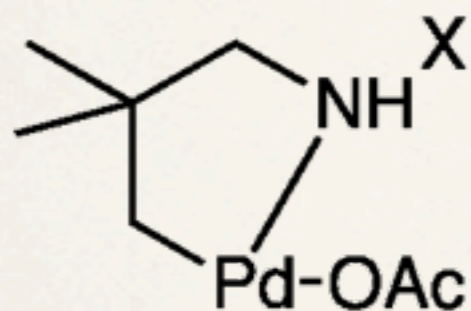
why is the more electron withdrawing X group,
the higher yield?

Mechanism based on literature

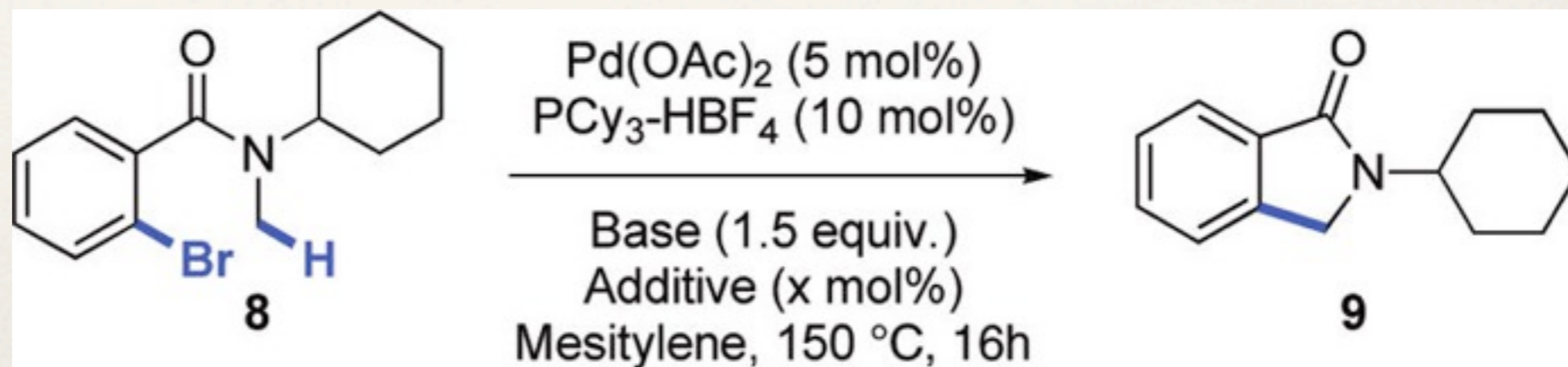
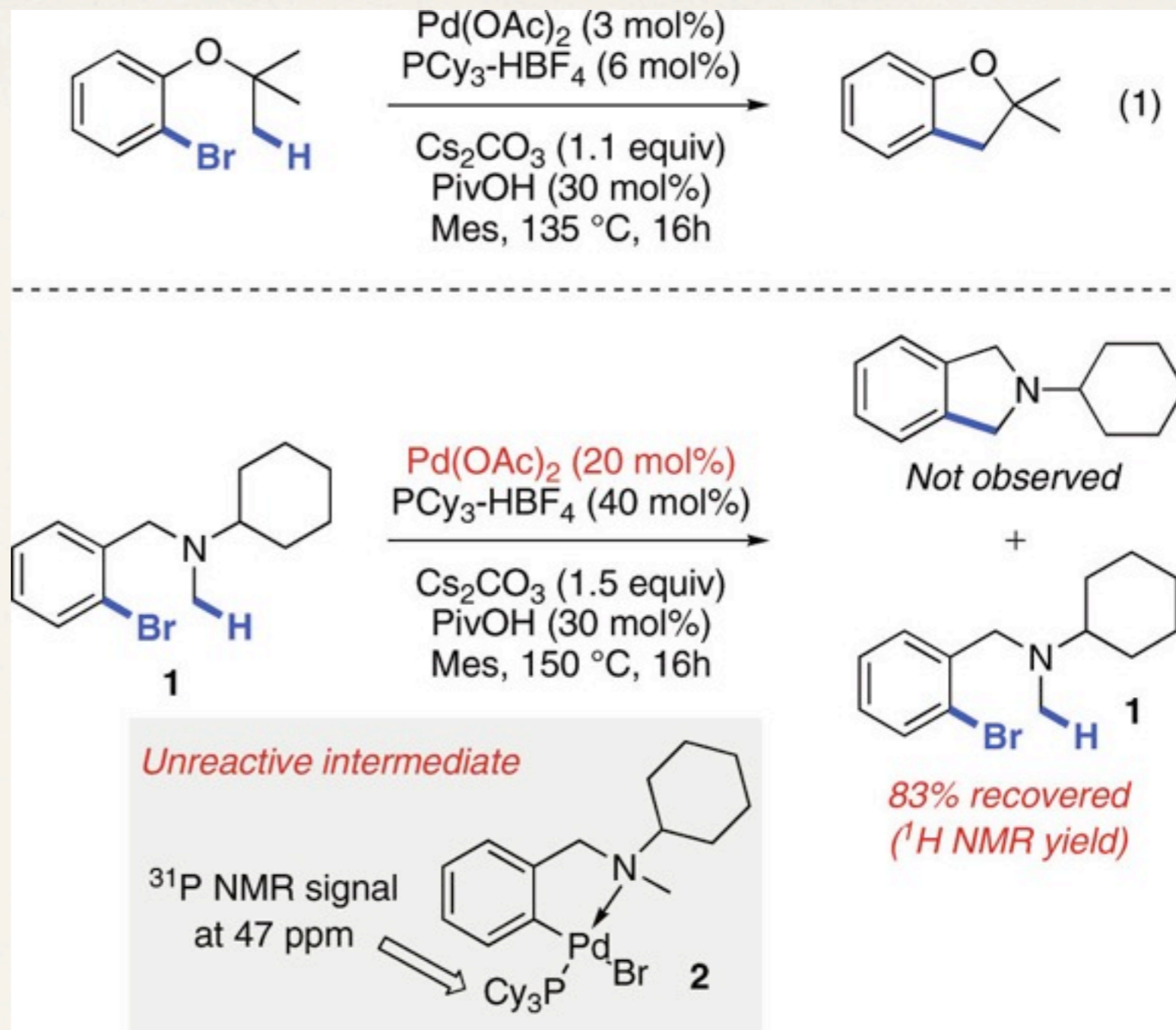


Angew. Chem. Int. Ed. 2009, 48, 5094 – 5115

J. Am. Chem. Soc. VOL. 132, NO. 31, 2010



the nitrogen coordination
weakened the coordination
of alkene



Thanks