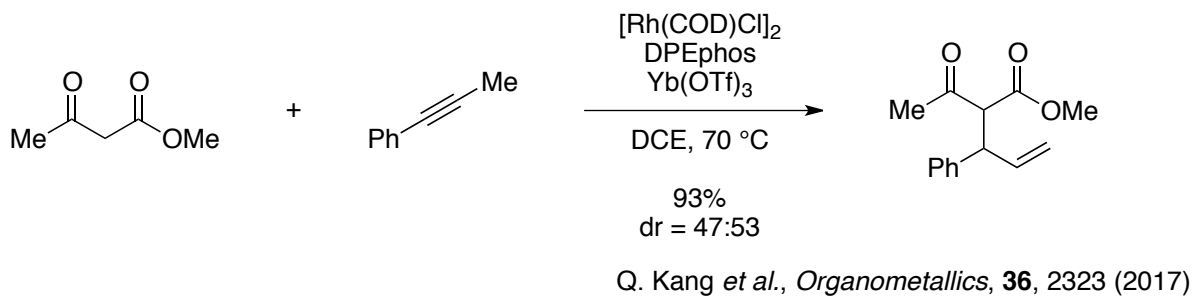


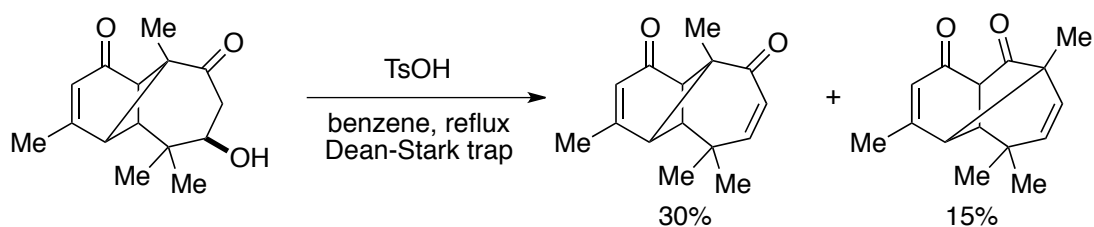
Fukuyama Group - Group Meeting Problems

07/04/2017

1

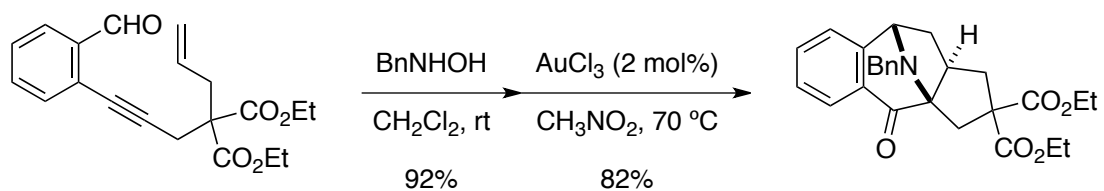


2



J. M. Amaro-Luis *et al.*, *Tetrahedron Lett.*, **57**, 2713 (2016)

3

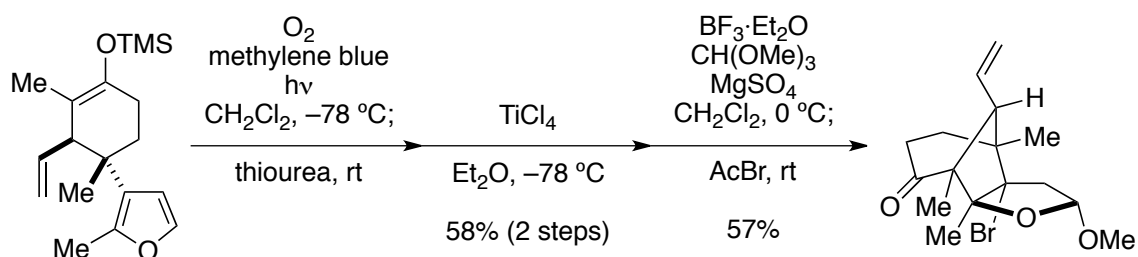


S. Shin *et al.*, *Angew. Chem. Int. Ed.*, **47**, 7040 (2008)

Fukuyama Group - Group Meeting Problems

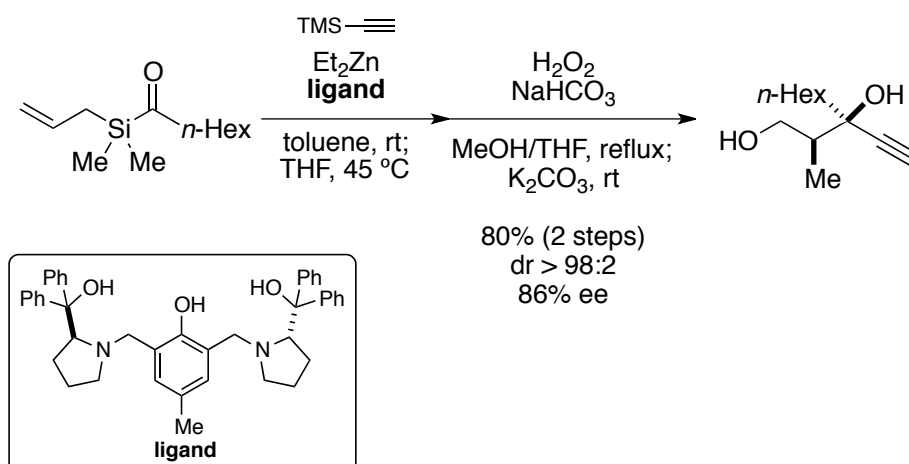
07/08/2017

1



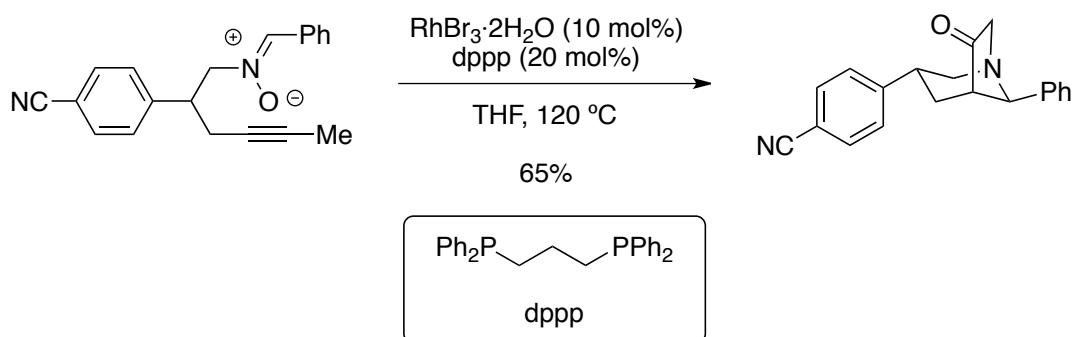
P. S. Baran *et al.*, *J. Am. Chem. Soc.*, **138**, 7536 (2016)

2



I. Marek *et al.*, *Angew. Chem. Int. Ed.*, **52**, 13717 (2013)

3

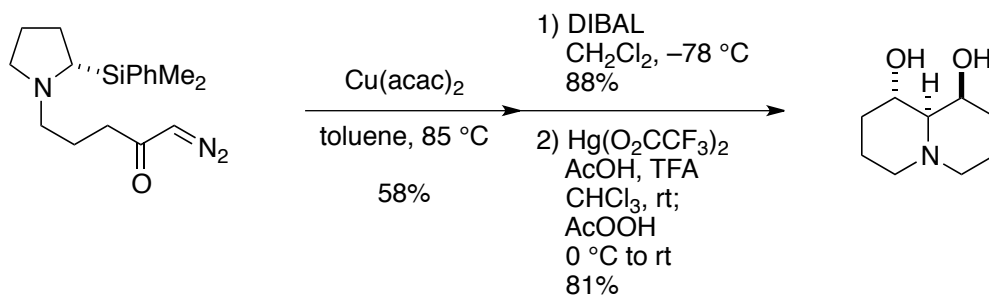


I. Nakamura *et al.*, *Chem. Eur. J.*, **23**, 7686 (2017)

Fukuyama Group - Group Meeting Problems

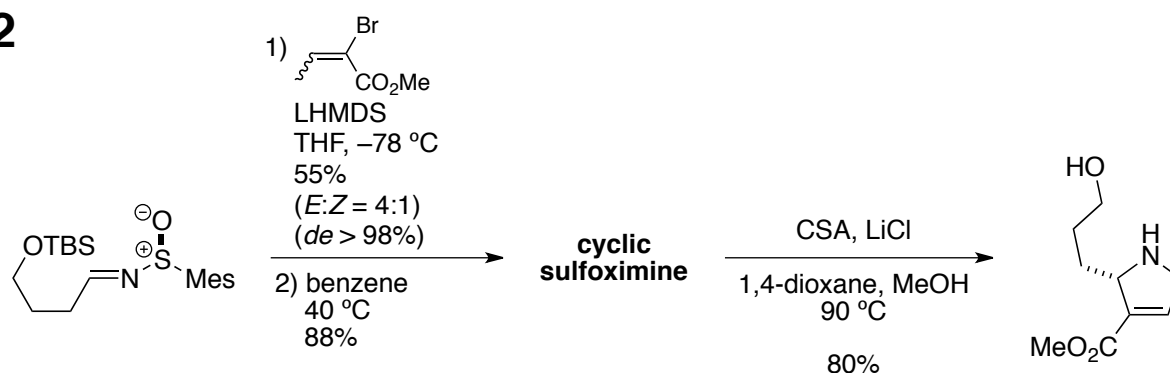
07/12/2017

1



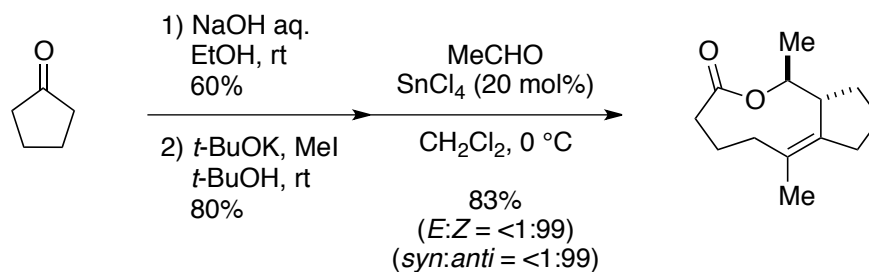
J. A. Vanecko and F. G. West, *Org. Lett.*, **4**, 2813 (2002)

2



R. A. Stockman *et al.*, *Angew. Chem. Int. Ed.*, **55**, 10047 (2016)
R. A. Stockman *et al.*, *Org. Lett.*, **16**, 6290 (2014)

3

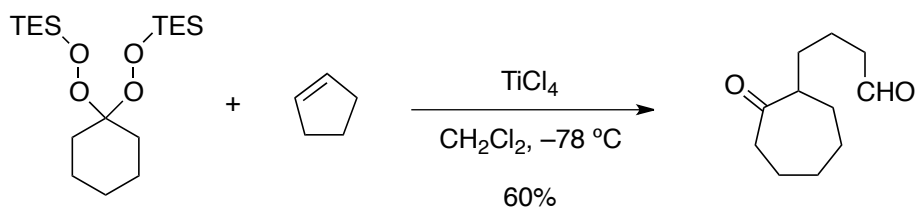


F. Shoenebeck *et al.*, *Angew. Chem. Int. Ed.*, **51**, 5647 (2012)
P. Shanmugam *et al.*, *Tetrahedron*, **52**, 7737 (1996)
H. Saito *et al.*, *Bull. Chem. Soc. Jpn.*, **39**, 694 (1966)

Fukuyama Group - Group Meeting Problems

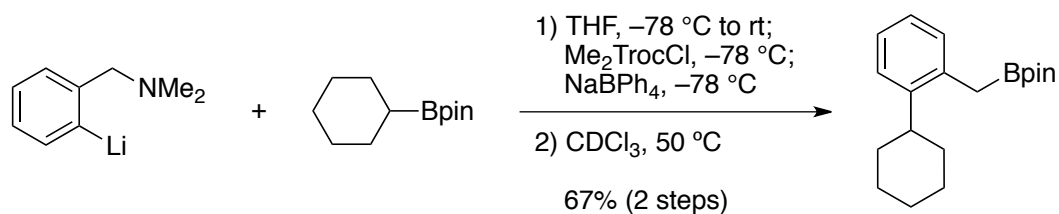
07/19/2017

1



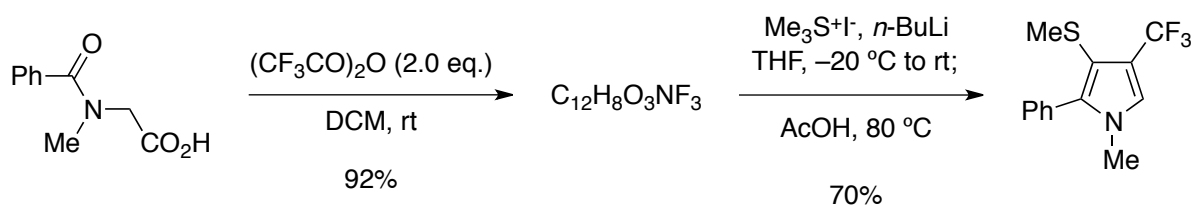
Y. Wu *et al.*, *Chem. Eur. J.*, **23**, 2031 (2017)

2



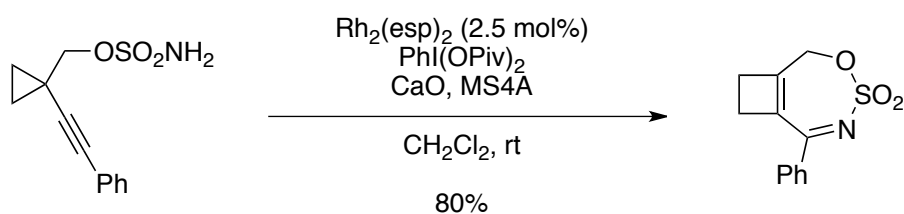
K. Aggarwal *et al.*, *J. Am. Chem. Soc.*, **139**, 1790 (2017)

3



T. Kurihara *et al.*, *Chem. Pharm. Bull.*, **49**, 461 (2001)
M. Kawase *et al.*, *Tetrahedron Lett.*, **53**, 2782 (2012)

4



$\text{Rh}_2(\text{esp})_2$: Bis[rhodium($\alpha,\alpha,\alpha',\alpha'$ -tetramethyl-1,3-benzenedipropionic acid)]

M. Shi *et al.*, *Org. Lett.*, **19**, 3584 (2017)