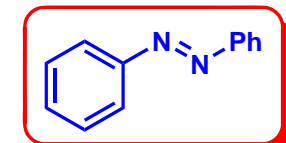
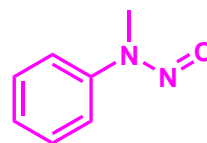
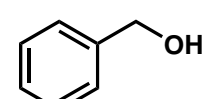
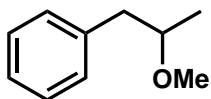
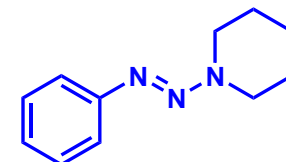
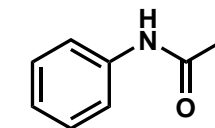
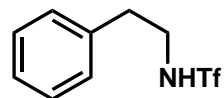
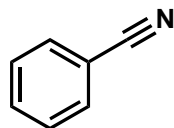
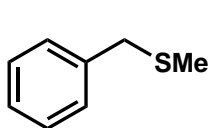
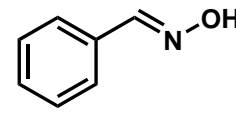
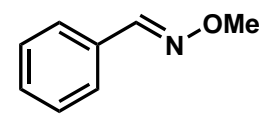
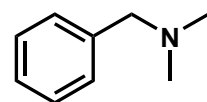
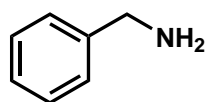
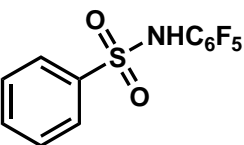
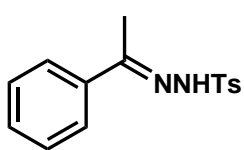
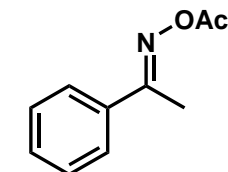
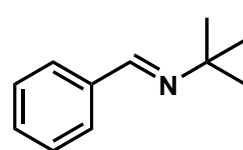
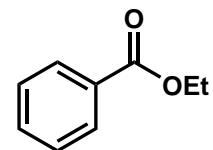
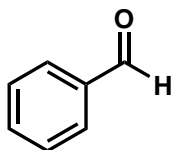
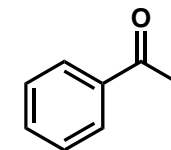
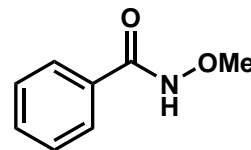
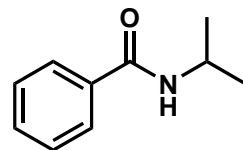
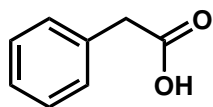
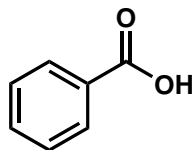
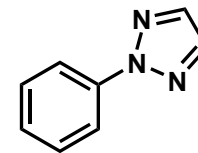
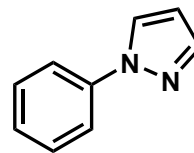
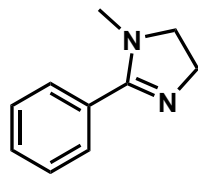
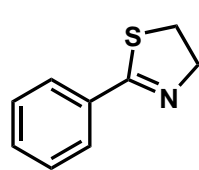
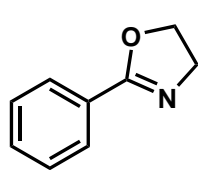
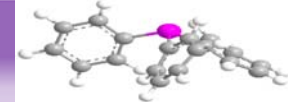




# Recent Development in Azobenzene Directed C-H Activation

*Chengming Wang*

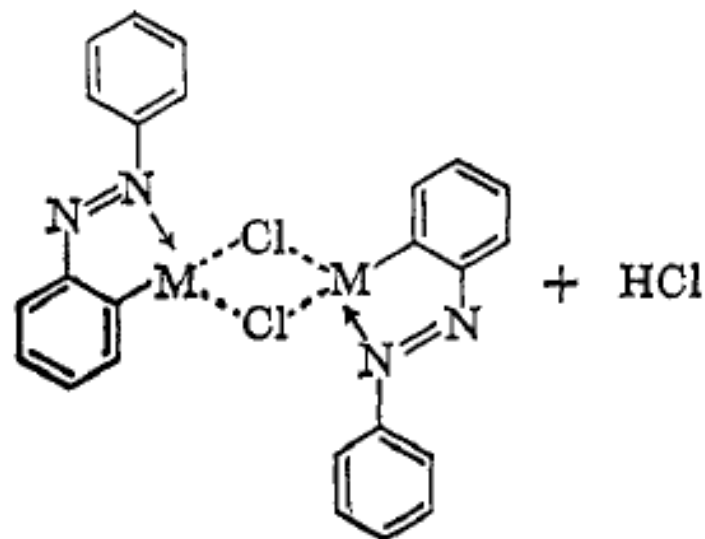
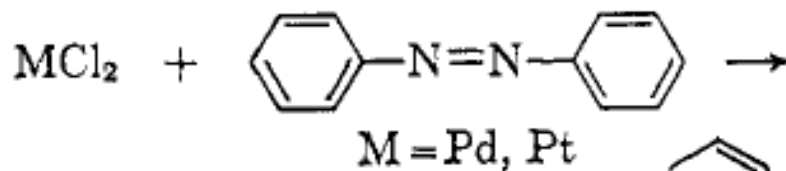
# Various directing groups in C-H activation



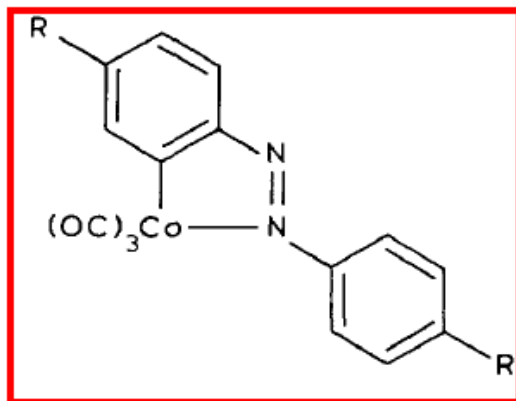
# Origin: Synthesis of azo complexes



R. F. Heck

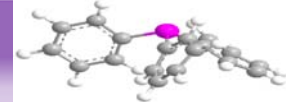


P. L. Pauson

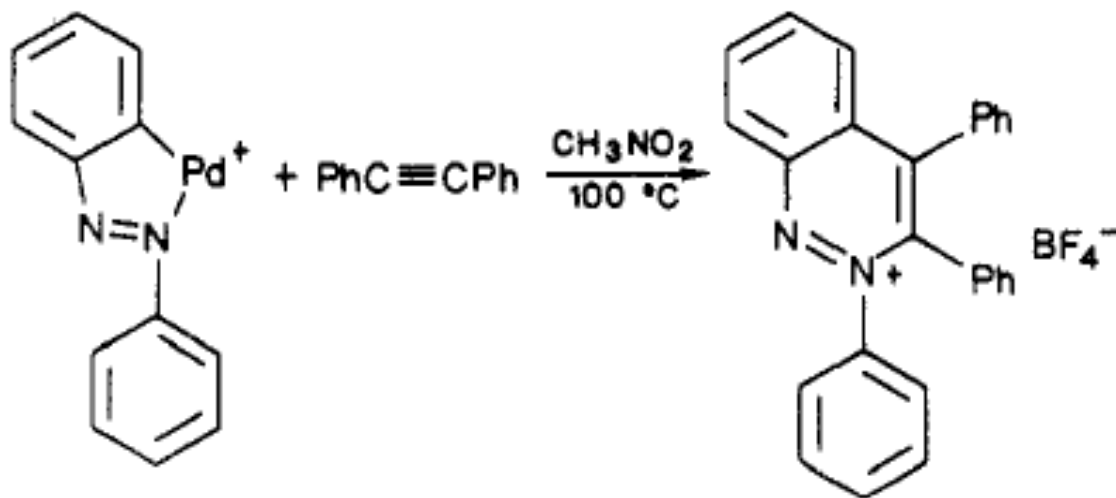


JACS-1968-313

JOMC-1987-247



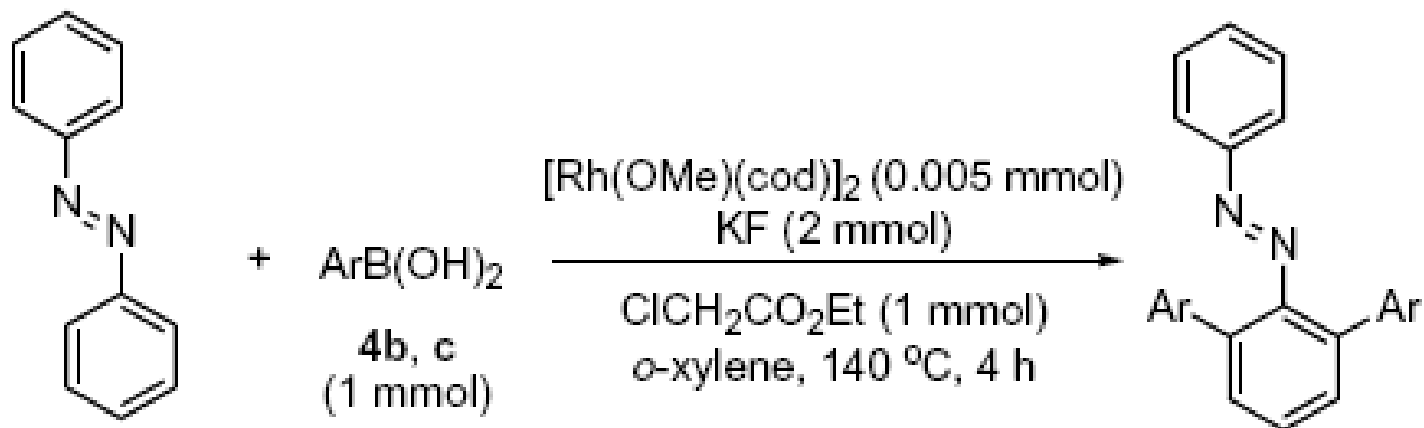
R. F. Heck



OM-1986-1922  
OM-1987-2386

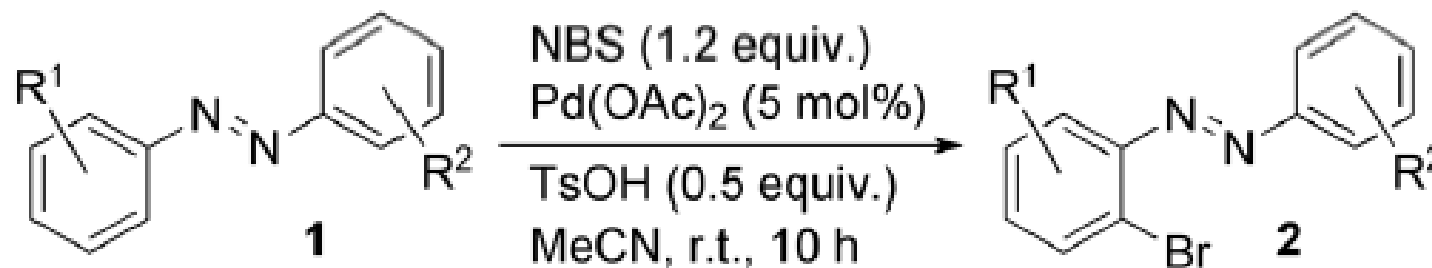


Miura



JOMC-2008-2438

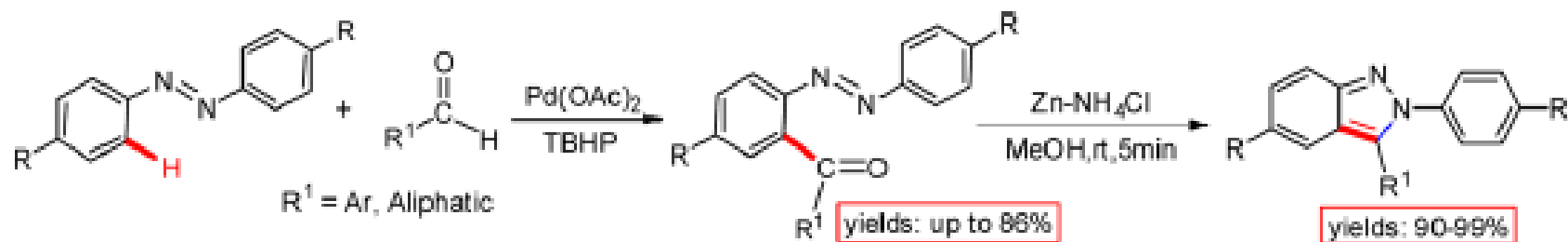
ShiKai Tian



ASC-2013-355

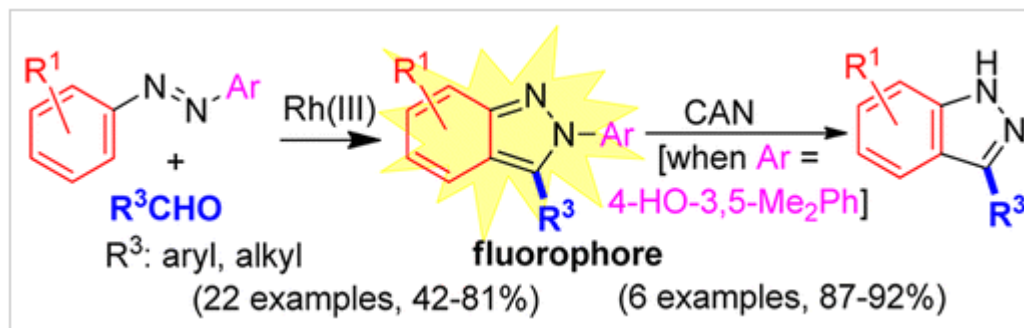


Lei Wang



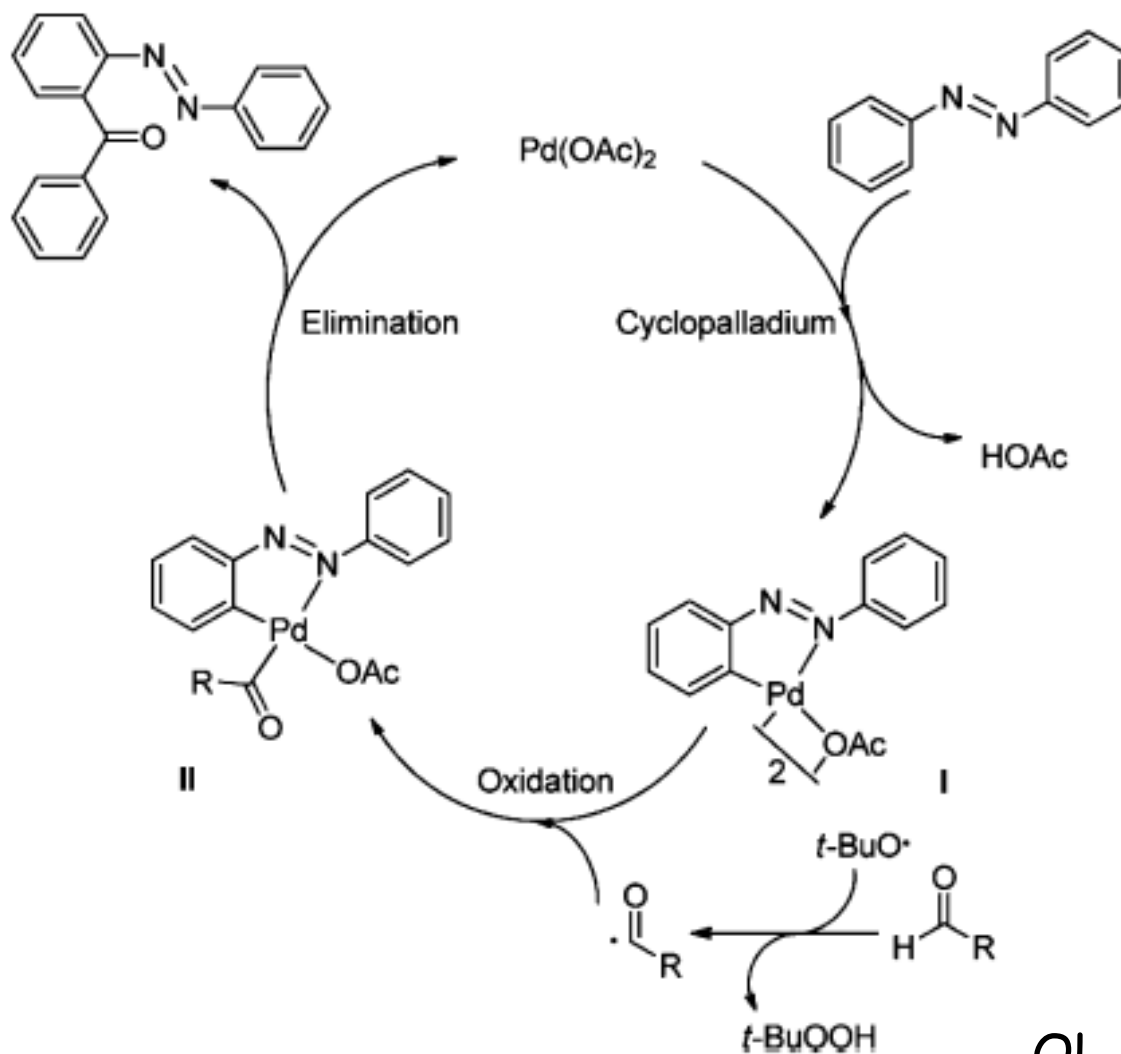
J. A. Ellman

OL-2013-620

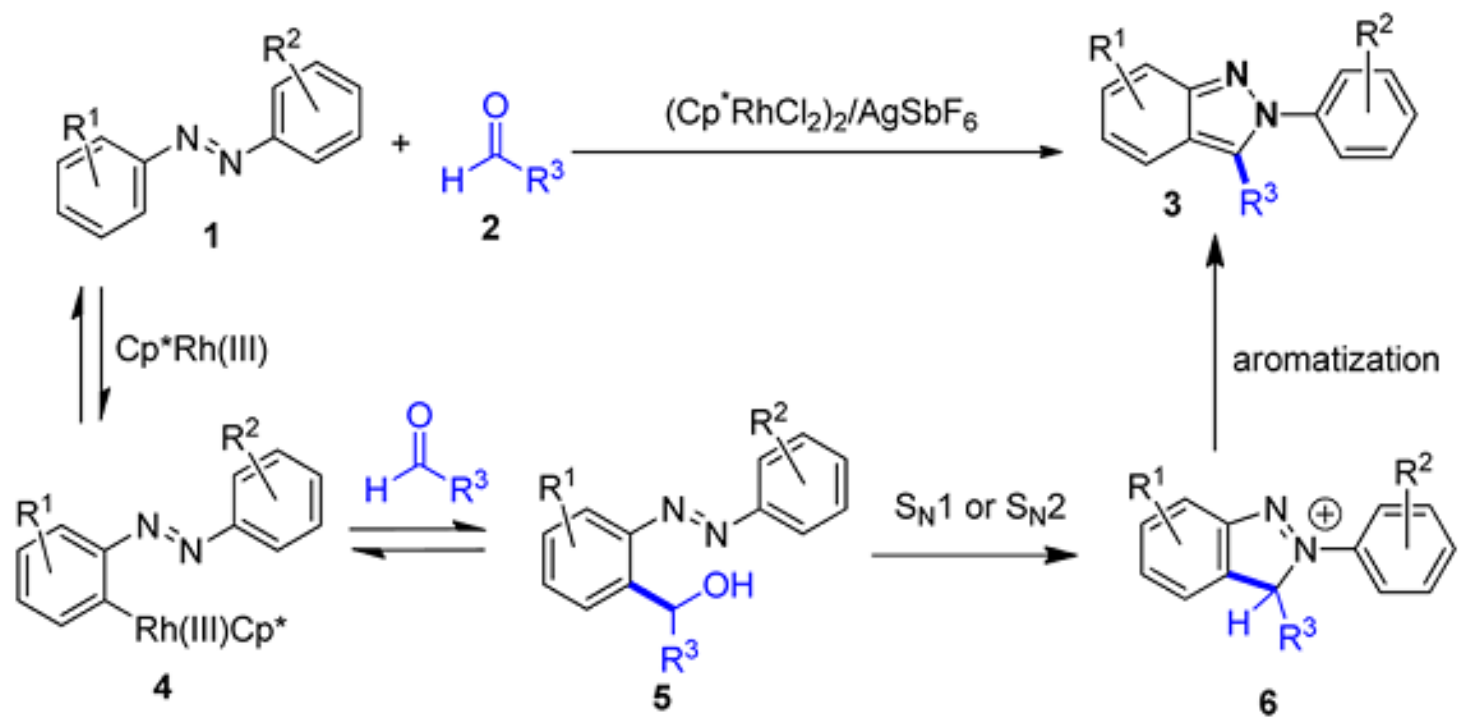


JACS-2013-ASAP









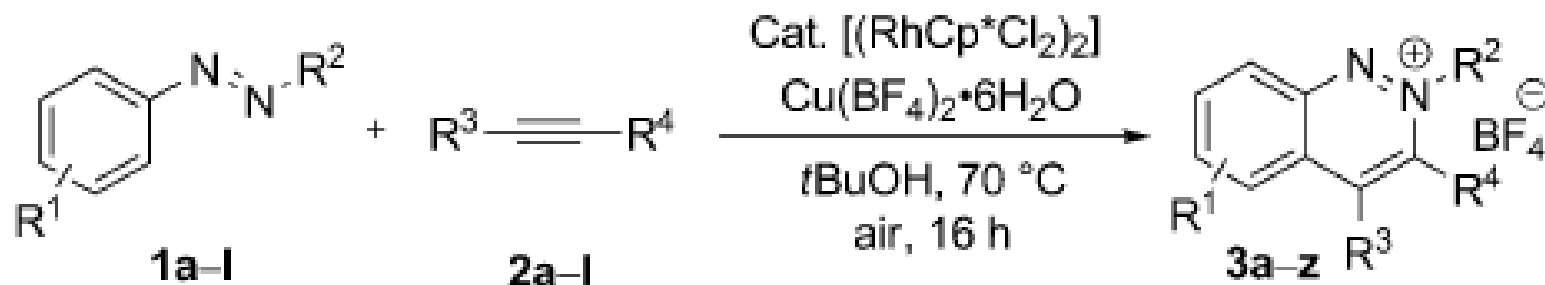
JACS-2013-ASAP



Thinking more, results better!

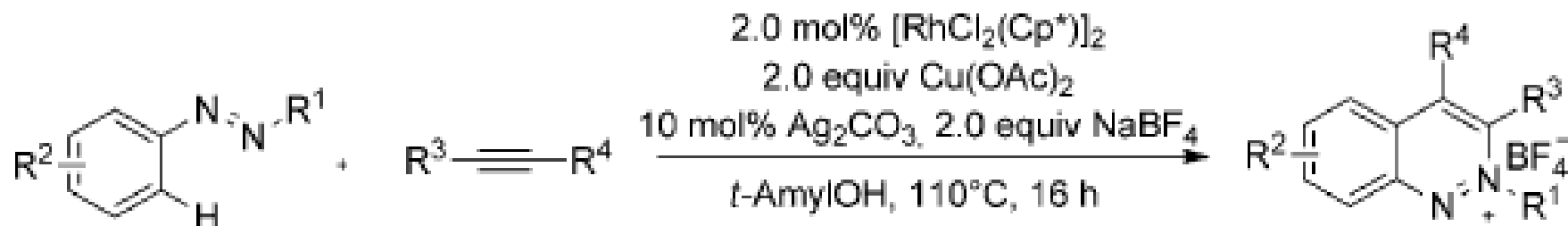


Chien-Hong Cheng

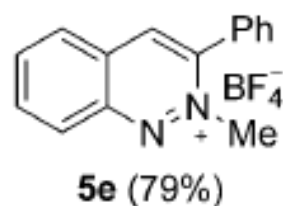
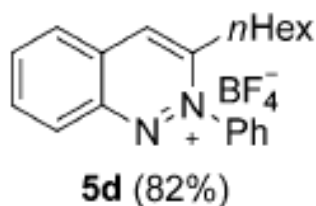
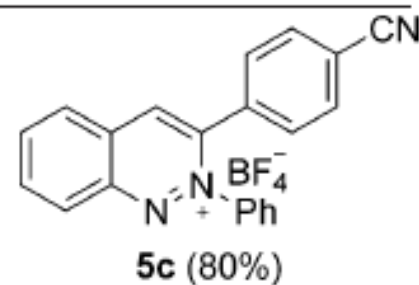
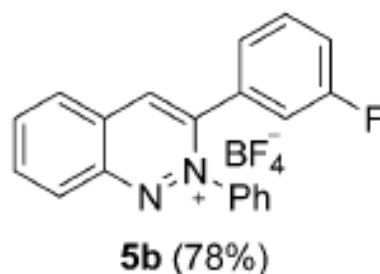
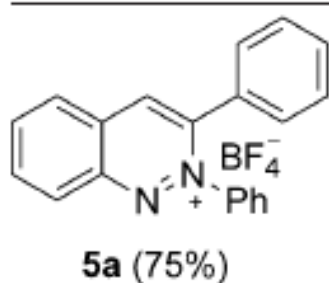
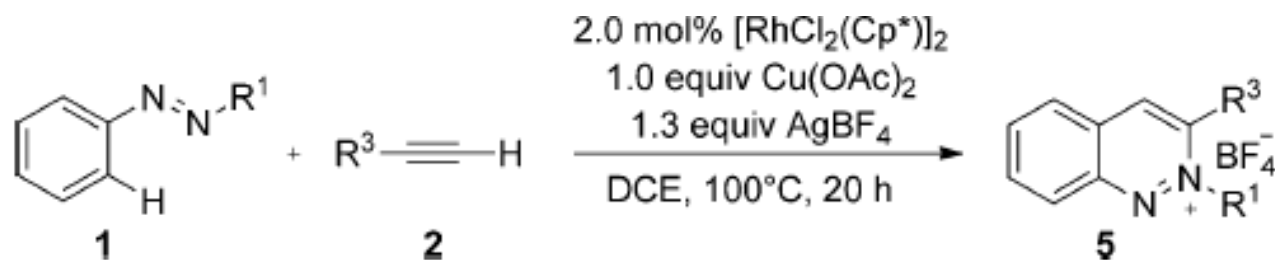
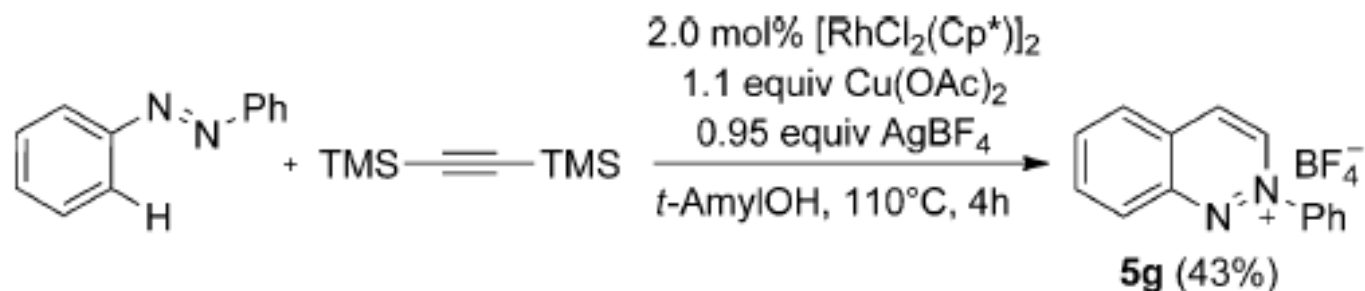


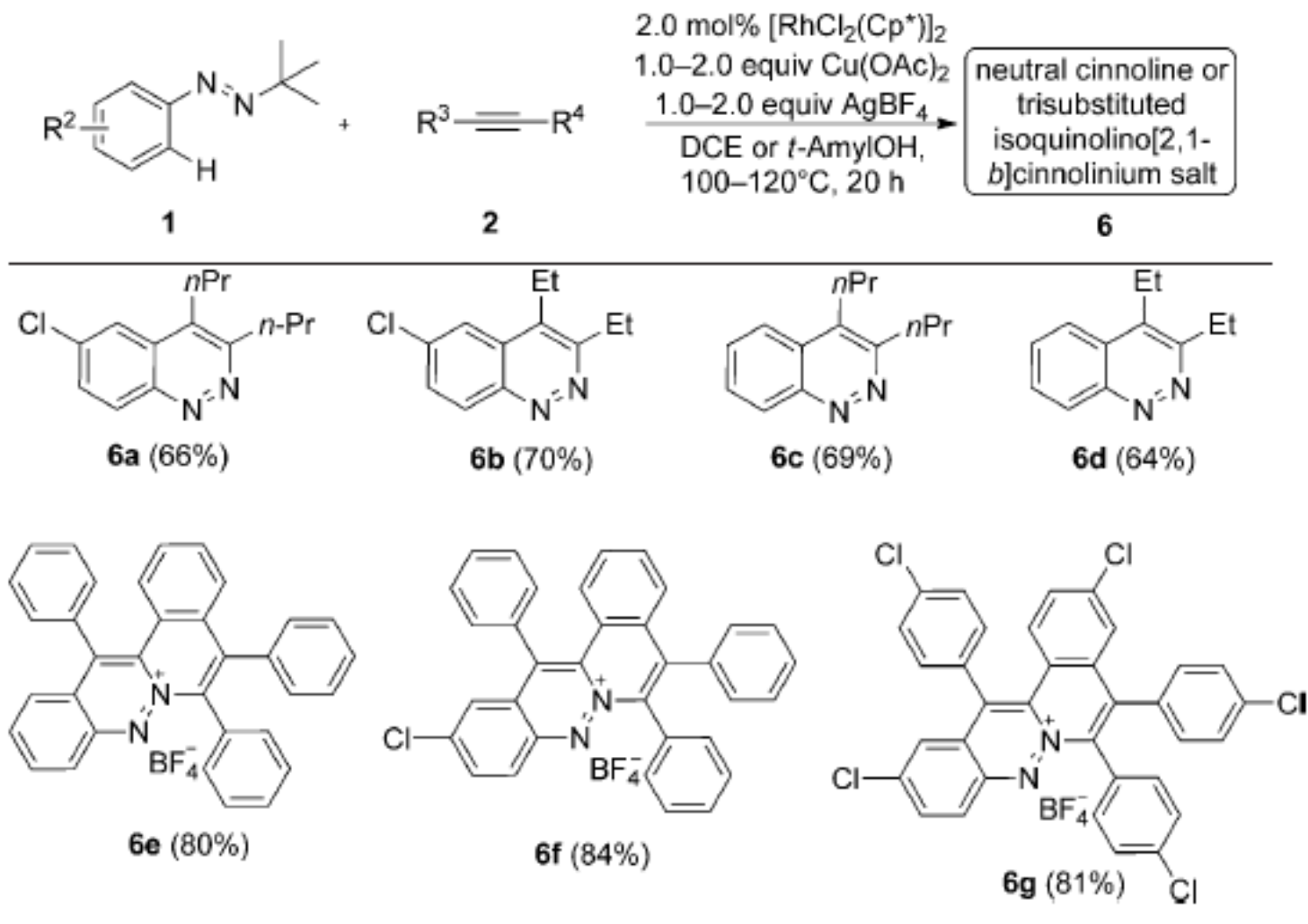
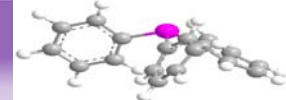
CE-2013-6198

Jinsong You

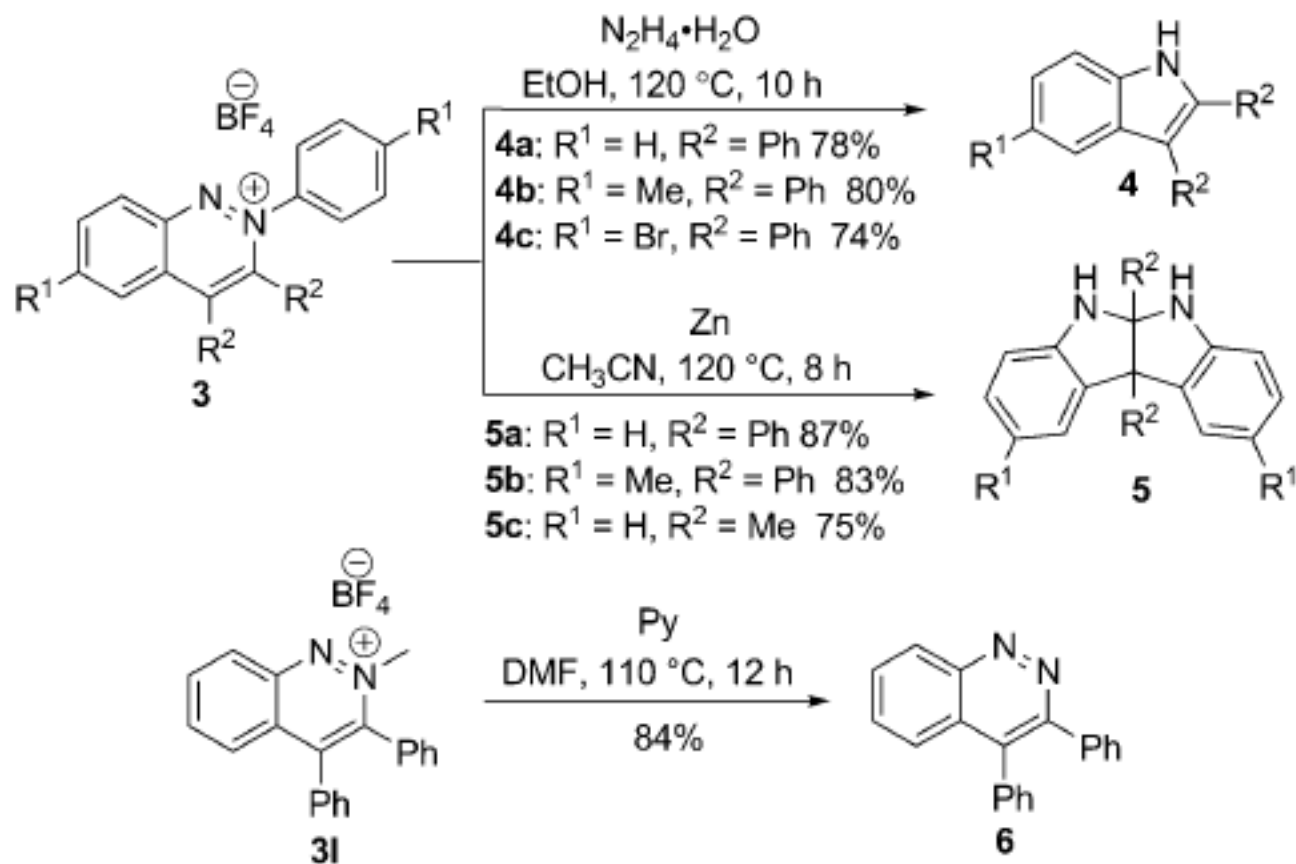


CE-2013-6239



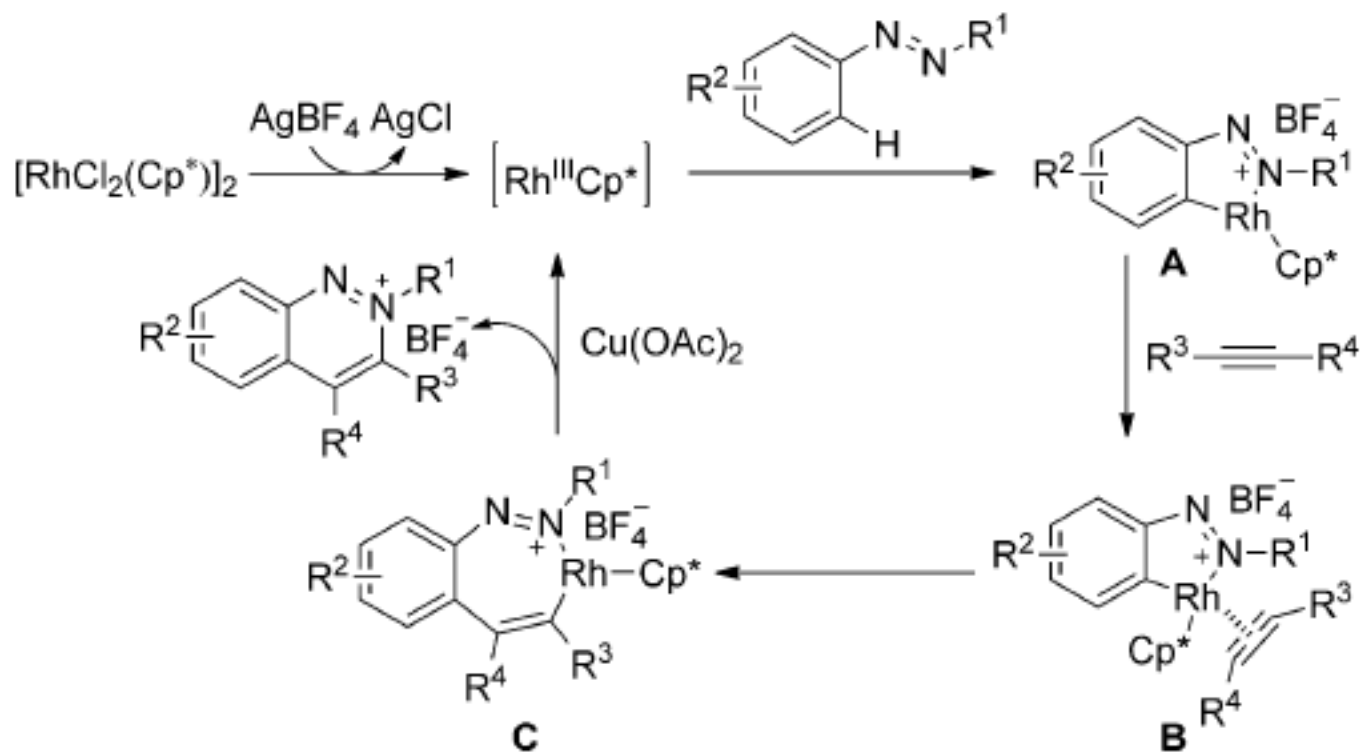


# Transformation of the products

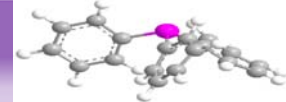


CE-2013-6198

# Proposed mechanism:



CE-2013-6239

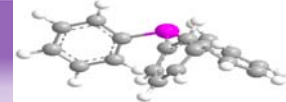


The competition is fierce,

**time** is important!!

- ◆ Raise efficiency.
- ◆ Reasonably arrange time.
- ◆ Work hard.





Thanks!