

Asymmetric Functionalization of C-C Bonds



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Education and Experience:

B.A., Gustavus Adolphus College, 2000

Ph.D., University of Wisconsin – Madison, 2004

NIH Postdoctoral Fellow, Colorado State University, 2005-2007

Areas of expertise: Organic Chemistry, Organometallics, Transition Metal Catalysis

Grants and Awards:

Camille and Henry Dreyfus Foundation

Faculty Start Up Award: 2007-2012

Hope Start Up Funds (Chem. Dept and Div. of Natural and Applied Sciences): 2007-2010

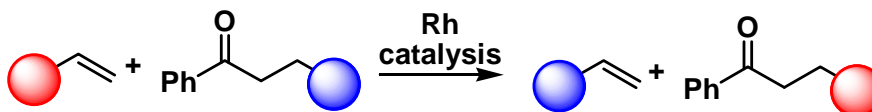
Key publications:

Johnson, J. B.; Bercot, E. A.; Williams, C. M.; Ravis, T. *Angew. Chem. Int. Ed.* **2007**, 46, 4514-4518.

Johnson, J. B.; Bercot, E. A.; Rowley, J.; Coates, G. W.; Ravis, T. *J. Am. Chem. Soc.* **2007**, 129, 2718-2725.

Casey, C. P.; Johnson, J. B. *J. Am. Chem. Soc.* **2005**, 127, 1883-1894.

Understanding Mechanisms of Transition Metal Catalyzed Reactions



Mechanistic Analysis of C-C Bond Activation

- Kinetic analysis
- Isotopic labeling
- Intermediate isolation
- Product analysis

The Development of Enantioselective Organic Methodology

