

# Vy Dong

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Professor of Chemistry  
University of California, Irvine

Presented by Layhna Plagmann on June 02, 2020



## Family Life

- 1975: Vy's grandmother escaped South Vietnam on a boat with her children
- 1976: Vy was born in Texas, then moved with family to grow up in Anaheim, California
- First of her family to attend college

- [CHON: An Organic Love Story](#)



# Education

- Undergraduate work:
  - Chemistry major at UC Irvine as a Regents' Scholar
  - Studied under and completed an honor's research project with Larry Overman
  - Graduated *magna cum laude* in 1998
- Graduate work:
  - Earned her master's degree in 2000 at UC Berkeley, advised by David MacMillan
  - Earned her PhD at the California Institute of Technology
    - Zwitterionic Claisen Rearrangement and total synthesis of Erythronolide B
  - NIH postdoc fellow at UC Berkeley College of Chemistry
    - Worked on organometallic and supramolecular chemistry with Robert Bergman and Kenneth Raymond



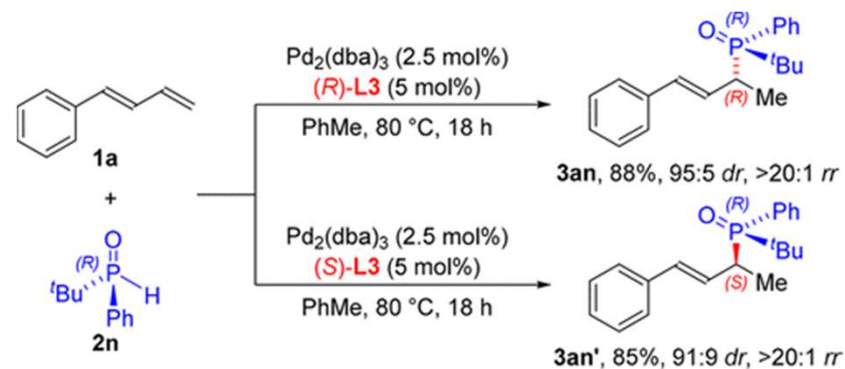
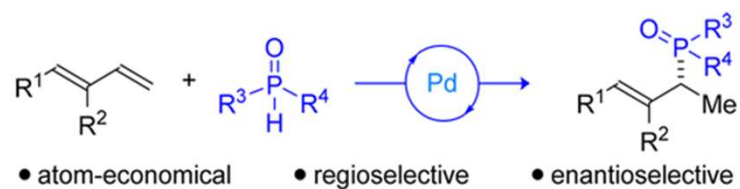
# Career

- University of Toronto:
  - In 2006 began her career as Assistant Professor
  - Promoted with tenure in 2010
  - Named the Adrian Brook Professor
- University of California, Irvine:
  - Returned to her alma mater in 2012 as Full Professor
  - Dong Research Group:
    - New reaction methods
    - Enantioselective catalysis
    - Natural product synthesis



# Research

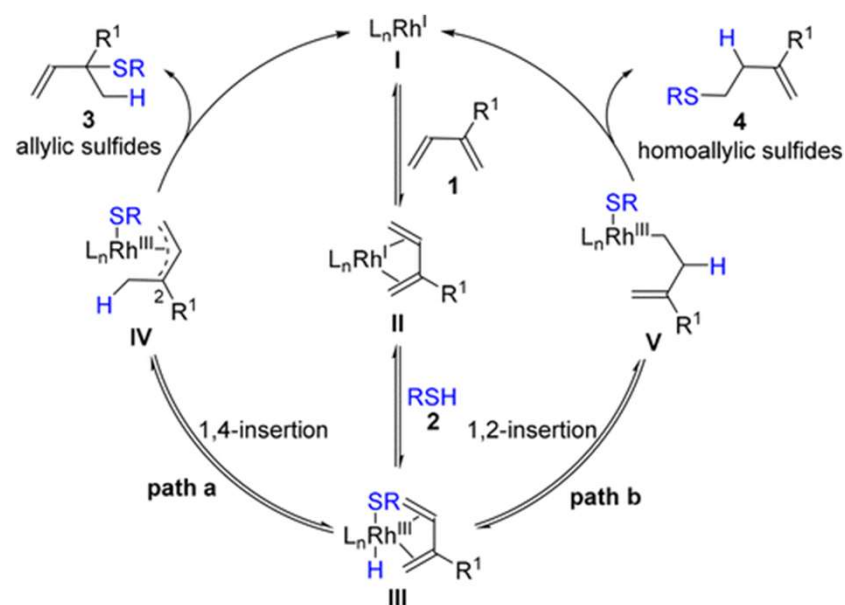
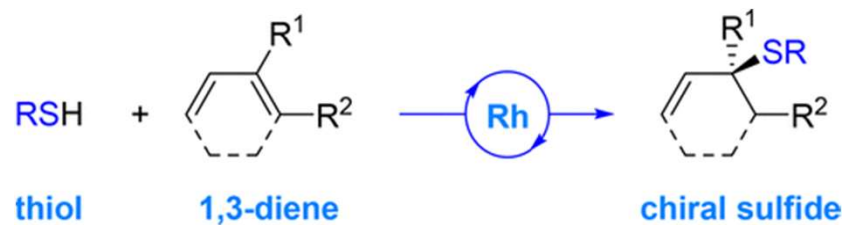
## Enantioselective Coupling of Dienes and Phosphine Oxides



*J. Am. Chem. Soc.* 2018, **140**, 48, 16450–16454

# Research

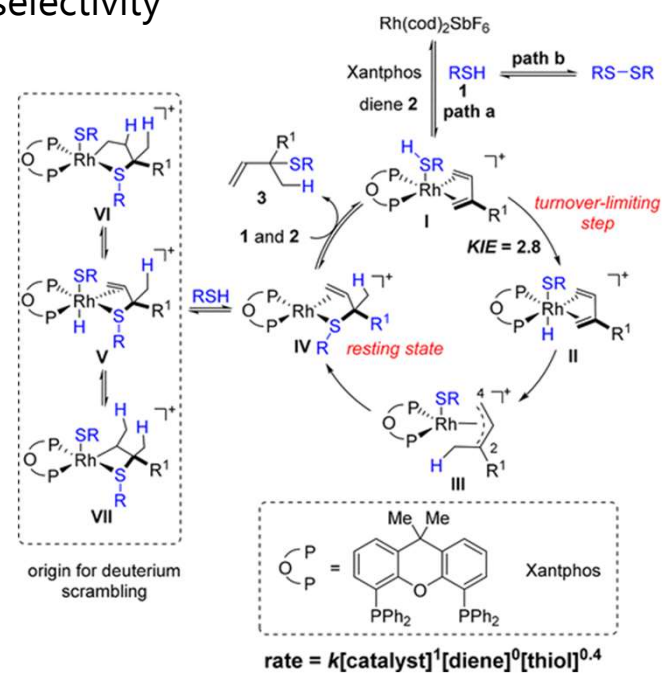
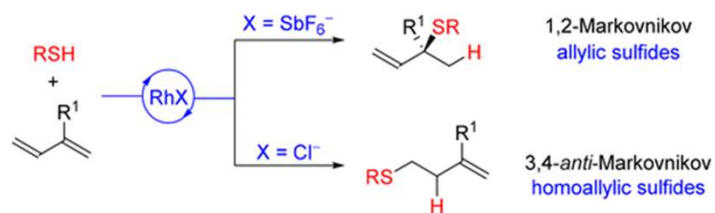
## Catalytic Hydrothiolation: Regio- and Enantioselective Coupling of Thiols and Dienes



*J. Am. Chem. Soc.* 2018, **140**, 33, 10443–10446

# Research

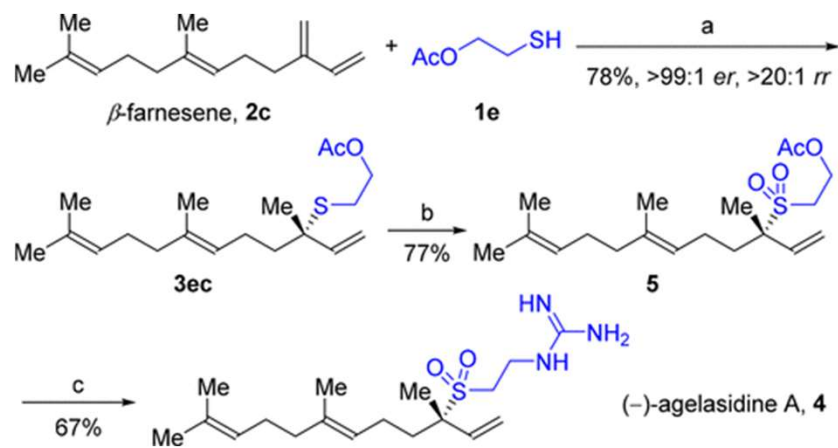
## Catalytic Hydrothiolation: Counterion-Controlled Regioselectivity



*J. Am. Chem. Soc.* 2019, **141**, 7, 3006–3013

# Research

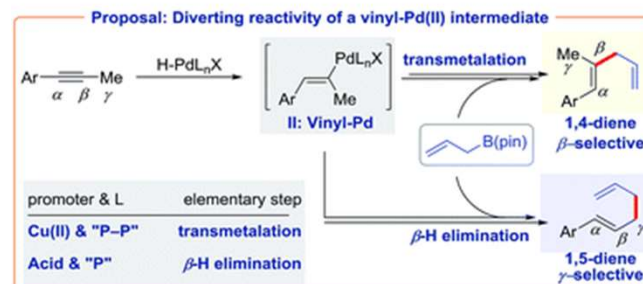
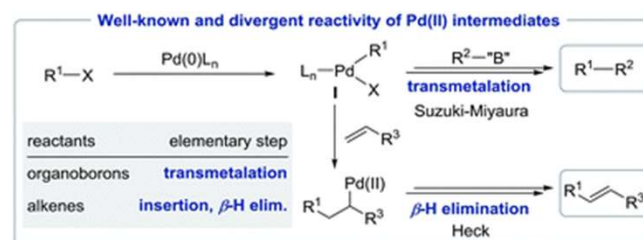
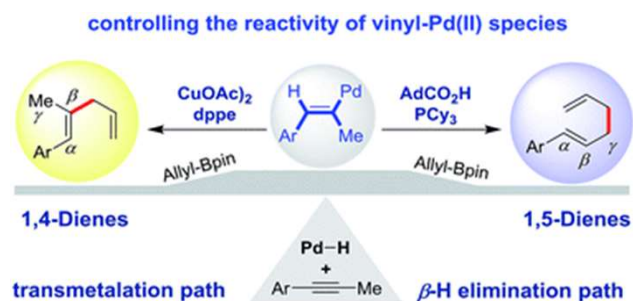
## Catalytic Hydrothiolation: Counterion-Controlled Regioselectivity



*J. Am. Chem. Soc.* 2019, **141**, 7, 3006–3013

# Research

A regioselectivity switch in Pd-catalyzed hydroallylation of alkynes



*Chem. Sci.*, 2019, **10**, 6311-6315

# References

- The Dong Research Group website
  - <https://www.chem.uci.edu/~dongv/about.html>
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