

Dr. Brenda C. Miller (Wray)

Work Address:
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Education and Research Experience

The Ohio State University

Columbus, OH

Ph.D. in Organic Chemistry, June 2011.

Research Advisor: James Stambuli

Thesis: Development of Novel Methods to Prepare Nitrogen and Oxygen Heterocycles

The University of Missouri

Columbia, MO

Bachelor of Science, Chemistry, May 2006.

Bachelor of Science, Biology, May 2006.

The University of Missouri Department of Animal Sciences

Columbia, MO

Research Advisor: Don Spiers

- Studied the effect of endophyte-infected fescue seed and heat stress on rats and cattle by taking measurements and helping with rat dissections, including developing and performing my own study.

Teaching Experience

Ohio University-Chillicothe, Arts & Sciences Division

Chillicothe, OH

Assistant Professor of Chemistry (August 2012-Present)

- General Chemistry Laboratory and Lecture Instructor. Courses: Chemistry 1210, 1510, 1520 and 3010.

Capital University, Department of Chemistry

Columbus, OH

Instructor for the Summer Institute in Science and Mathematics (June-August 2011; June-August 2012)

- Organic Chemistry Laboratory Instructor. Course: Chemistry 233.
- Organic Chemistry Lecture Instructor. Course: Chemistry 232.

Zane State College

Zanesville, OH

Adjunct Instructor for General Chemistry (June 2011-August 2012)

- General Chemistry Laboratory and Lecture Instructor. Course: Chemistry 101.

Ohio Dominican University, Department of Chemistry

Columbus, OH

Adjunct Instructor for General Chemistry (January 2012-May 2012)

- General Chemistry Laboratory and Lecture Instructor. Course: Chemistry 110.

The Ohio State University, Department of Chemistry

Columbus, OH

Lecturer for the Chemistry Department (September 2011-June 2012)

- Organic Chemistry Labs and Recitations (3 quarters). Courses: Chemistry 251, and 254.

The Ohio State University, Department of Chemistry Columbus, OH

Teaching Assistant for the Chemistry Department (September 2006-June 2011)

- Organic Chemistry Labs and Recitations (10 quarters). Courses: Chemistry 251, 252, 253, and 254.
- General Chemistry Labs and Recitations (5 quarters). Courses: Chemistry 100, 102, 121, and 122.

The University of Missouri, Department of Chemistry Columbia, MO

Teaching Assistant for the Chemistry Department (August 2005- May 2006)

- General Chemistry Labs and Recitations (2 semesters). Course: Chemistry 15.

Awards

Winner of The Ohio State University Department of Chemistry 2011 Albert L. Henne Research Competition

Presentations

Wray, B.C. and Stambuli, J.P. Metal-free synthesis of 1-aryl-1*H*-indazoles and application to natural products. 238th ACS National Meeting, Washington, D.C., United States. August 18, 2009.

Publications

4. Check, C.T.; Henderson, W.H.; Wray, B.C.; Vanden Eynden, M.J. "Oxidant-Controlled Stereoselectivity in the Pd-Catalyzed Allylic Oxidation of *cis*-Vinylsilanes." *J. Am. Chem. Soc.* **2011**, 133, 18503.
3. Counciller, C.; Eichman, C.; Wray, B.; Welin, E.; Stambuli, J. The Preparation of via Metal Free Intramolecular Electrophilic Amination of 2-Aminophenyl Ketoximes. *Org. Synth.* **2011**, 88, 33-41.
2. Wray, B.C.; Stambuli, J.P. Synthesis of *N*-Aryl-Indazoles and Benzimidazoles from a Common Intermediate. *Org. Lett.* **2010**, 12, 4576.
1. Counciller, C.M.; Eichman, C.C.; Wray, B.C.; Stambuli, J.P. A Practical, Metal-Free Synthesis of 1*H*-Indazoles. *Org. Lett.* **2008**, 10, 1021.

Activities

Alpha Chi Sigma Professional Chemistry Fraternity Columbia, MO

Delta Chapter President (2004-2005)

Delta Chapter Treasurer (2003-2004)

Member (2003-present)

- Duties include: Attending chapter meetings, participating in service activities such as Boy Scout Merit Badge, Magic of Chemistry, High School Chemistry Day, attending district and national meetings.

American Chemical Society

Columbus, OH

Member, (2007-present)

Woman's Life Insurance Society

Columbus, OH

Member (2014-present)