

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Nan Zheng		POSITION TITLE	
eRA COMMONS USER NAME NZHENG1		Assistant Professor	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Rochester, Rochester, NY	M.S.	1995	Organic Chemistry
University of Michigan, Ann Arbor, MI	Ph.D.	2005	Organic Chemistry
Massachusetts Institute of Technology	Postdoc	2005-2008	Organic Chemistry

EMPLOYMENT

1995-1999 Chemist, Process Research, Merck & Co., Inc., Rahway, NJ
2008- Assistant Professor, Department of Chemistry and Biochemistry, University of Arkansas, Fayetteville, AR

HONORS

2005-2006 NIH NCI Postdoctoral Trainee
2006-2008 NIH Ruth L. Kirschstein NRSA Postdoctoral Fellow

PROFESSIONAL SOCIETIES

Member of the American Chemical Society (ACS), 1993-present

PUBLICATIONS

1. Tsang, W. C. P.; Munday, R.; Gordon, B.; Zheng, N.; Buchwald, S. L. "A Palladium-Catalyzed Method for the Synthesis of Carbazoles via Tandem C-H Functionalization and C-N Bond Formation" *J. Org. Chem.* **2008**, *73*, 7603-7610.
2. Handa, M.; Scheidt, K.; Bossart, M.; Zheng, N.; Roush, W. R. "Studies on the Synthesis of Apoptolidin A. 1. Synthesis of the C(1)-C(11) Fragment" *J. Org. Chem.* **2008**, *73*, 1031-1035.
3. Zheng, N.; Buchwald, S. L. "A Copper-Catalyzed Regiospecific Synthesis of *N*-Alkyl Benzimidazoles." *Org. Lett.* **2007**, *9*, 4749-4751.
4. Zheng, N.; Anderson, K. W.; Huang, X.; Nguyen, H. N.; Buchwald, S. L. "A Palladium-Catalyzed Regiospecific Synthesis of *N*-Aryl Benzimidazoles." *Angew. Chem., Int. Ed.* **2007**, *46*, 7509-7512.
5. Tsang, W. C. P.; Zheng, N.; Buchwald, S. L. "Combined C-H Functionalization/C-N Bond Formation Route to Carbazoles." *J. Am. Chem. Soc.* **2005**, *127*, 14560-14561.
6. Zheng, N.; Armstrong, J. D., III; Keller, J.; Liu, T.; Purick, J. L.; Bhupathy, M.; Volante, R. P. "A Convergent Asymmetric Synthesis of the Growth Hormone Secretagogue." *Tetrahedron: Asymmetry* **2003**, *14*, 3435-3446.
7. McWilliams, J. C.; Fleitz, F. J.; Zheng, N.; Armstrong, J. D., III "Preparation of *N*-Butyl 4-Chlorophenyl Sulfide." *Organic Syntheses* **2002**, *79*, 43-51.
8. Fleitz, F. J.; Lyle, T. A.; Zheng, N.; Armstrong, J. D., III; Volante, R. P. "Kilogram Scale Synthesis of the Pyrazinone Acetic Acid Core of an Orally Efficacious Thrombin Inhibitor." *Synth. Commun.* **2000**, *30*, 3171-3180.
9. Zheng, N.; McWilliams, J. C.; Fleitz, F. J.; Armstrong, J. D., III; Volante, R. P. "Palladium-Catalyzed Synthesis of Aryl Sulfides from Aryl Triflates." *J. Org. Chem.* **1998**, *63*, 9606-9607.

Principal Investigator/Program Director (Last, First, Middle): Zheng, Nan

10. Zheng, N.; Armstrong, J. D., III; McWilliams, J. C.; Fleitz, F. J.; Volante, R. P. "Asymmetric Synthesis of α -Amino Acid Derivatives via an Electrophilic Amination of Chiral Amide Cuprates with Li-*t*-Butyl-*N*-Tosyloxycarbamate." *Tetrahedron Lett.* **1997**, 38, 2817-2820.
11. McWilliams, J. C.; Armstrong, J. D., III; Zheng, N.; Bhupathy, M.; Volante, R. P.; Reider, P. "Tandem Asymmetric Transformations: an Asymmetric 1,2-Migration from a Higher Order Zincate Coupled with a Stereoselective Homoaldol Reaction." *J. Am. Chem. Soc.* **1996**, 118, 11970-11971.

PRESENTATIONS

1. Zheng, N. Diastereoselective Functionalization of sp³ C-H Bonds. Oral Presentation at the 5th Sino-US Chemistry Professors Symposium, Lanzhou, China, June 28-July 1, 2009.
2. Zheng, N.; Tsang, W. C. P.; Anderson, K. W.; Munday, R. H.; Brasche, G.; Huang, X.; Nguyen, H. N.; Buchwald, S. L. The Application of Pd- and Cu-Catalyzed Carbon-Nitrogen Bond Formation to Heterocycle Synthesis. Invited talk at the 64th ACS Southwest Regional Meeting, Little Rock, Arkansas, October 1-4, 2008.
3. Zheng, N.; Anderson, K. W.; Huang, X.; Nguyen, H. N.; Buchwald, S. L. A Palladium-Catalyzed Regiospecific Synthesis of *N*-Aryl Benzimidazoles. Oral Presentation at the 234th ACS National Meeting, Boston, Massachusetts, August 19-23, 2007.
4. Zheng, N.; Anderson, K. W.; Huang, X.; Nguyen, H. N.; Buchwald, S. L. A Regiospecific Synthesis of *N*-Aryl and *N*-Alkyl Benzimidazoles. Poster Presentation at the Gordon Research Conference in Organic Reactions and Processes, Smithfield, Rhode Island, July 15-20, 2007.

OTHER SUPPORT

Ongoing Research Support

7/01/09-05/31/10

Arkansas Biosciences Institute

Award: \$36,008

The Use of Azirines in Iron-Catalyzed Formation of Carbon-Nitrogen Bonds

Role: PI