

Erik John Alexanian

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EDUCATION

Ph.D. Organic Chemistry; Princeton University, Princeton, NJ	2006
A.B. <i>cum laude</i> in Chemistry; Harvard University, Cambridge, MA	2001
High School graduation; Boston Latin School, Boston, MA	1997

APPOINTMENT

Assistant Professor, University of North Carolina, Chapel Hill, NC 2008 – present

RESEARCH INTERESTS

Synthetic organic and organometallic chemistry, catalysis; the discovery and development of new and useful forms of chemical reactivity for the stereoselective synthesis of biologically active compounds and natural products

EXPERIENCE

University of North Carolina, Chapel Hill, NC: 2008 – present
Assistant Professor of Chemistry

*University of Illinois at Urbana-Champaign, Urbana, IL
and Yale University, New Haven, CT:* 2006 – 2008
Postdoctoral Research with Professor John F. Hartwig;
Synthetic and Mechanistic Studies of Transition Metal Enolates

*Princeton University, Princeton, NJ
and The Scripps Research Institute, La Jolla, CA:* 2001 – 2006
Graduate Research with Professor Erik J. Sorensen;
Synthesis of the Furanosteroid Viridin and New Metal-Catalyzed Alkene
Difunctionalizations

Boston College, Chestnut Hill, MA: 1999 – 2001
Undergraduate Research with Professor Amir Hoveyda;
Molybdenum-Catalyzed Enantioselective Alkene Metathesis

AWARDS

- NSF CAREER Award 2011 – 2016
- Thieme Chemistry Journal Award 2011
- National Institutes of Health Postdoctoral Fellowship 2006 – 2008
- ACS Division of Organic Chemistry Fellowship 2004 – 2005
Sponsored by GlaxoSmithKline
- Bristol-Myers Squibb Graduate Fellowship 2004 – 2005

- Hugh Stott Taylor Fellowship 2003
- Skaggs Predoctoral Fellowship 2002 – 2003
- James H. and Louise S. Hekimian Scholarship 1999 – 2001
- Harvard College Scholarship 1998 – 2001

INVITED LECTURES

- University of North Carolina Wilmington, 2011
- Wake Forest University, 2010
- Appalachian State University, 2010

INDEPENDENT PUBLICATIONS at UNC

11. Bloome, K. S.; McMahan, R. L.; Alexanian, E. J.* “Palladium-Catalyzed Heck-Type Reactions of Alkyl Iodides.” *J. Am. Chem. Soc.* **2011**, *133*, 20146–20148.
10. Giglio, B. C.; Schmidt, V. A.; Alexanian, E. J.* “Metal-Free, Aerobic Dioxygenation of Alkenes Using Simple Hydroxamic Acid Derivatives.” *J. Am. Chem. Soc.* **2011**, *133*, 13320–13322.
9. Schmidt, V. A.; Alexanian, E. J.* “Metal-Free Oxyaminations of Alkenes Using Hydroxamic Acids.” *J. Am. Chem. Soc.* **2011**, *133*, 11402–11405.
8. Brusoe, A. T.; Alexanian, E. J.* “Rhodium(I)-Catalyzed Ene-Allene-Allene [2+2+2] Cycloadditions: Stereoselective Synthesis of Complex *trans*-Fused Carbocycles.” *Angew. Chem. Int. Ed.* **2011**, *50*, 6596–6600.
7. Bloome, K. S.; Alexanian, E. J.* “Palladium-Catalyzed Carbonylative Heck-Type Reactions of Alkyl Iodides.” *J. Am. Chem. Soc.* **2010**, *132*, 12823–12825.
6. Schmidt, V. A.; Alexanian, E. J.* “Metal-Free, Aerobic Dioxygenations of Alkenes Using Hydroxamic Acids.” *Angew. Chem. Int. Ed.* **2010**, *49*, 4491–4494.

PREVIOUS PUBLICATIONS

5. Alexanian, E. J.; Hartwig, J. F. “Mechanistic Study of β -Hydrogen Elimination from Organoplatinum(II) Enolate Complexes.” *J. Am. Chem. Soc.* **2008**, *130*, 15627–15635.
4. Alexanian, E.; Lee, C. “Selective Oxidative Functionalization of sp^2 and sp^3 C-H Bonds.” *Chemtracts* **2005**, *18*, 38–43.
3. Alexanian, E. J.; Lee, C.; Sorensen, E. J. “Palladium-Catalyzed Ring-Forming Aminoacetoxylation of Alkenes.” *J. Am. Chem. Soc.* **2005**, *127*, 7680–7681.
2. Anderson, E. A.; Alexanian, E. J.; Sorensen, E. J. “Synthesis of the Furanosteroidal Antibiotic Viridin.” *Angew. Chem. Int. Ed.* **2004**, *43*, 1998–2001.
1. Weatherhead, G. S.; Ford, G. J.; Alexanian, E. J.; Schrock, R. R.; Hoveyda, A. H. “Tandem Catalytic Ring-Opening Metathesis/Ring-Closing Metathesis.” *J. Am. Chem. Soc.* **2000**, *122*, 1828–1829.

AWARDED RESEARCH SUPPORT

- NSF CAREER Award 2011 – 2016
- ACS PRF 2010 – 2012

TEACHING EXPERIENCE

Chemistry 468 – Synthetic Aspects of Organic Chemistry 2009 – 2011
Modern synthetic methods and their application to the synthesis of complicated molecules.

Chemistry 261 – Introduction to Organic Chemistry I 2009 – 2011
Molecular structure and its determination by modern physical methods, correlation between structure and reactivity and the theoretical basis for these relationships, classification of reaction types exhibited by organic molecules using as examples molecules of biological importance.