

Department of Chemistry
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Adam M. Azman, Ph.D.

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EDUCATION

- 2005-2010 The University of North Carolina at Chapel Hill
Ph.D. Organic Chemistry received August 2010
Dissertation Advisor: Dr. Michael T. Crimmins
Dissertation Title: *Spiroketal as Natural Product Mimics and Progress toward the Total Synthesis of Milbemycin β_{14}*
- 2001-2005 Xavier University, Cincinnati, Ohio
B.S. Cum Laude, Chemistry received May 2005
Thesis Advisor: Dr. Richard J. Mullins
Thesis Title: *Efforts toward the Total Synthesis of (+)-Kalkitoxin*

TEACHING EXPERIENCE

- 2010-present Lecturer in Organic Chemistry
Butler University, Indianapolis, IN
Courses Taught:
CH 351 Organic Chemistry I (and integrated lab)
CH 352 Organic Chemistry II (and integrated lab)
NW 210 Chemistry and Society
CH 105 General Chemistry (lab only)
- Fall 2009 Future Faculty Fellow

Graduate Assistance in Areas of National Need (GAANN) Fellow
The University of North Carolina at Chapel Hill
Courses Taught:
CHEM 261 Introductory Organic Chemistry I (4 Chapters)
- 2008-2009 GAANN Fellow
The University of North Carolina at Chapel Hill
Courses Taught:
CHEM 261 Honors Organic Chemistry I (2 Chapters)
CHEM 262 Honors Organic Chemistry II (1 Chapter)
- 2005-2006, 2008 Laboratory Teaching Assistant
The University of North Carolina at Chapel Hill
Courses Taught:
CHEM 101L Quantitative Chemistry Laboratory (2 Sections)
CHEM 262L Organic Chemistry Laboratory (3 Sections)

HONORS AND MEMBERSHIPS

- 2004-present Member, American Chemical Society
2011-2014 Butler University SGA Annual "Apple for You" Teaching Award
2009-2010 Future Faculty Fellow
2008-2010 Graduate Assistance in Areas of National Need (GAANN) Fellow
2005 Francis Venable Summer Research Fellowship
2001-2005 University Scholar, Xavier University Honors Program
2005 Frederick Miller, S.J. Award for the Highest Distinction in Chemistry
2004 American Chemical Society Polymer Education Committee Award

ONLINE OUTREACH

Websites

-Contributing Author, *chemistry-blog.com/author/azmanam* (2008–present). >150 posts, ~1500 subscribers, ~10,000 page views/week

- Posts have been featured or syndicated by:
 - Chemical and Engineering News*: **89**(47), 34 (2011); **88**(19), 5 (2010); **87**(5), 32 (2009)
 - Nature Chemistry*: **5**(4), 247 (2013), **4**(7), 517 (2012); **3**(11), 835 (2011); **2**(7), 343 (2010)
 - New York Times*, Diner's Journal, 4 November 2011.
- Senior Member, Chemical Forums, <http://bit.ly/gOZnWY>
- Webmaster, Butler Chemistry Department Webpage, BU, <http://bit.ly/BUChem>
- Redesigned M. T. Crimmins Group Homepage, UNC, <http://bit.ly/MTCPage>

Applications Created

- Coin Flip Game to Teach NMR Coupling and J-Value Concepts
<http://bit.ly/NMRgame>
- Organic Chemistry Reactions Mind Map
<http://bit.ly/OrgoMindMap>
- Reagent Table Widget
<http://bit.ly/rxntable>
- Reagent Properties Widget
<http://bit.ly/rgtprop>
- Chemistry Spell-Check Dictionary for Word Processors
<http://chemistry-blog.com/dictionary>

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

1. **Azman, A. M.**; Barrett, J. A.; Darragh M.; Esteb, J. J.; McNulty, L. M.; Morgan, P. M.; O'Reilly, S. A.; Wilson, A. M. "Adding Gas Chromatography-Mass Spectrometry Data to a Melting Point and Thin-Layer Chromatography Laboratory." *J. Chem. Educ.* **2013**, 90(1), 140-141. DOI: 10.1021/ed300490x
2. Crimmins, M. T.; **Azman, A. M.** "A Modular, Stereoselective Approach to Spiroketal Synthesis." *Synlett* **2012**, 23(10), 1489-1492. DOI: 10.1055/s-0031-1290670
3. **Azman, A. M.** "A Chemistry Spell-Check Dictionary for Word Processors." *J. Chem. Educ.* **2012**, 89(3), 412-413. DOI: 10.1021/ed2002994
4. Zhang, D.; Bender, D. M.; Frantz, V.; Peterson, J. A.; Boyer, R. D.; Stephenson, G. A.; **Azman, A.**; McCarthy, J. R. "Facile Rearrangement of N^4 -(α -aminoacyl)cytidines to N -(4-cytidinyl)amino Acid Amides." *Tetrahedron Lett.* **2008**, 49(13), 2052-2055. DOI: 10.1016/j.tetlet.2008.02.015

BOOK CHAPTERS

1. **Azman, A. M.**; Mullins, R. J. Oxazoles, Benzoxazoles, and Isoxazoles. In *Heterocyclic Chemistry in Drug Discovery*, Li, J. J., Ed. John Wiley & Sons, Inc.: Hoboken, New Jersey, **2013**; pp 231-282.
2. Mullins, R. J.; **Azman, A. M.** Thiazoles and Benzothiazoles. In *Palladium in Heterocyclic Chemistry*, 2nd ed.; Li, J. J., Gribble, G. W., Eds.; Tetrahedron Organic Chemistry Series 26; Elsevier Science: New York, **2007**; pp 345-377.
3. Mullins, R. J.; **Azman, A. M.** Imidazoles. In *Palladium in Heterocyclic Chemistry*, 2nd ed.; Li, J. J., Gribble, G. W., Eds.; Tetrahedron Organic Chemistry Series 26; Elsevier Science: New York, **2007**; pp 407-433.

EDITOR-REVIEWED ARTICLES

1. **Azman, A. M.** "Teaching Chemistry through History." *Nature Chemistry* **2013**, 5(5), 353. DOI: 10.1038/nchem.1635. - **INVITED**
2. **Azman, A. M.** "Blogroll: Real-time Chemistry." *Nature Chemistry* **2013**, 5(1), 5. DOI: 10.1038/nchem.1534. - **INVITED**
3. **Azman, A.M.** "A Few of Our Favorite Chemical Reactions: Diels-Alder Reaction." *Chemical & Engineering News* **2011**, 89(47), 34-36. URL: bit.ly/DAFavRxn
4. **Azman, A. M.** On Creating a Chemistry Dictionary File. *ChemSpider J. Chem.* **2009**, 1. URL: bit.ly/ChemSpiderArticle – **INVITED**

PRESENTATIONS

1. **Azman, A. M.**; Esteb, J. J. Coin-Flipping Game for Teaching NMR Spin-spin Splitting. *Abstracts of Papers*, 246th National Meeting of the American Chemical Society, Indianapolis, IN, United States, September 8-12, 2013; American Chemical Society: Washington, DC, **2013**.
2. **Azman, A. M.** "Wednesday Fun Facts" Make Chemistry Exciting, Accessible. Presented at SENCER Summer Institute, Santa Clara, CA, August 1-5, **2013**.
3. McNulty, L.; Esteb, J.; Wilson, A.; Morgan, P.; **Azman, A.** Effect of Discussion Sessions on Student Learning in the Organic Laboratory. *Abstracts of Papers*, 245th National Meeting of the American Chemical Society, New Orleans, LA, United States, April 7-11, 2013; American Chemical Society: Washington, DC, **2013**.
4. McNulty, L.; Esteb, J.; Wilson, A.; Morgan, P.; **Azman, A.** Incorporation of NMR spectroscopy into organic chemistry laboratory at Butler University. *Abstracts of Papers*, 245th National Meeting of the American Chemical Society, New Orleans, LA, United States, April 7-11, 2013; American Chemical Society: Washington, DC, **2013**.
5. **Azman, A. M.** Spiroketal as Natural Product Mimics & Synthesis of the Northern Hemisphere of Milbemycin β_{14} . Xavier University, March 14, **2011**. – **INVITED**
6. Frantz, V.; Deyi, Z.; Bender, D. M.; Peterson, J. A.; Boyer, R. D.; Stephenson, G. A.; **Azman, A. M.**; McCarthy, J. R. Conversion of N^4 -(α -aminoacyl)cytidines to N -(4-cytidinyl)amino Acid Amides by a Novel Rearrangement Reaction. *Abstracts of Papers*, 232 National Meeting of the American Chemical Society, San Francisco, CA, Sept 10-14, 2006; American Chemical Society: Washington, DC, **2006**.
7. **Azman, A. M.**; Rohlf, R. L.; Mullins, R. J. Synthesis and Medicinal Chemistry of Kalkitoxin. National Conference for Undergraduate Research, Lexington, VA, April, 2005; Council on Undergraduate Research, **2005**.

STUDENT PRESENTATIONS

1. "Preparation of Novel β -Lactams for Antibiotic Synthesis." Snyder, A.; Esteb, J. J.; **Azman, A. M.** Eli Lilly & Company Undergraduate Research Grant Symposium, Indianapolis, IN. August 16, **2011**.