

vita of
Matthew R. Dintzner

Education

- 1992-1998 Syracuse University
Ph.D., Organic Chemistry, December 1998
- 1988-1992 Holy Cross College
B.A., with honors in Chemistry, May 1992

Employment

- 2000-present Assistant Professor, DePaul University
- 1998-2000 Post-doctoral Fellow, catalytic antibody chemistry, The Scripps Research Institute, La Jolla, CA
- 1994-1998 Research Assistant, natural products synthesis, Syracuse University, Syracuse, NY

Awards and Honors

- *2005 Faculty Research and Development Grant, \$4,000
- *2004 URC Paid Leave Grant, full salary for one quarter, awarded for AQ 2004
- *2003 Distinguished Member of the National Society of Collegiate Scholars
- *2003 TLA Writing-in-the-Disciplines Grant, \$1,000
- *2003 NSF CCLI (A&I) Grant for a new NMR Spectrometer, \$107,845
- 2003 Nominated for Excellence in Teaching Award
- 2003 Faculty Research and Development Grant, \$4,000
- 2001 Faculty Research and Development Grant, \$3,700
- 1996 Excellence in Leadership Award from Syracuse University
- 1991 Pfizer Research Fellowship
- 1990 R.E.U. Fellowship from Holy Cross College

Professional Societies

American Chemical Society (ACS), ACS Chicago Section, ACS Division of organic Chemistry, ACS Division of Chemical Education

Publications List (undergraduate co-authors underlined)

1. ^{13}C - ^{13}C Coupling Constants in Carboxylate Esters.
R. M. Jarret, L. Cusumano, M. R. Dintzner
Microchemical Journal **1993**, 47, 187.
2. Deuterium Isotope Effects on ^{13}C NMR Chemical Shifts of Amides.

- R. M. Jarret, N. Sin, M. R. Dintzner
Microchemical Journal **1997**, 56, 19.
3. Studies Toward the Asymmetric preparation of (+)-Mycotrienol I: Synthesis of a C9-N Synthon.
M. R. Dintzner, U. Englich, K. Ruhlandt-Senge, J. L. Kallmerten. *In preparation*.
- *4. Investigation of the Montmorillonite Clay-Catalyzed [1,3] Shift Reaction of 3-Methyl-2-Butenyl Phenyl Ether.
M. R. Dintzner, K. M. Morse, K. M. McClelland, and D. M. Coligado
Tetrahedron Letters **2004**, 45, 79-81.
- *5. Montmorillonite Clays in Organic Synthesis: a One-pot Conversion of Phenols to 2,2-Dimethylbenzopyrans.
M. R. Dintzner, K. M. McClelland, K. M. Morse, and M. H. Akroush
Synlett **2004**, 11, 2028-2030.
- *6. A Quick, Clean and Green Synthesis of Methylenedioxyprococene and Other Chromenes over Basic Montmorillonite K10 Clay.
M. R. Dintzner, T. W. Lyons, M. H. Akroush, P. Wucka, and A. T. Rzepka
Synlett **2005**, 5, 785-788.
- *7. Green Chemistry in the Undergraduate Organic Laboratory: Microwave-Assisted Synthesis of a Natural Insecticide on Basic Montmorillonite K10 Clay.
M. R. Dintzner, P. Wucka and T. W. Lyons
J. Chemical Educ. **2005**, submitted.

Abstracts from Presentations at Scholarly Meetings (undergraduate co-authors underlined)

1. Studies Toward the Total Synthesis of (+)-Ansatrienins A₂ and A₃.
M. R. Dintzner, J. L. Kallmerten
27th Northeast Regional Meeting of the American Chemical Society, Saratoga, NY (August, **1997**)
2. Reactive Immunization: Antibody Selection Through Glycoside Bond Formation.
Matthew R. Dintzner, John Neves, Roberta Fuller, Tom Lynch, Elena Lucchetta, Debbie Coligado, Andrea Toth, Nick Richert, M.G. Finn
222nd National Meeting of the American Chemical Society, Chicago, IL; American Chemical Society: Washington, D. C., **2001**; ORGN 499.
3. Development and Screening of Potential Catalytic Antibodies.
Matthew R. Dintzner, John A. Neves, Roberta Fuller, Debbie Coligado, Andrea Toth, Nick Richert, M.G. Finn
5th Annual Illinois Louis Stokes Alliance for Minority Participation in Undergraduate Research Symposium, Chicago, IL (October, **2001**)

4. Progress toward the synthesis of an anti-inflammatory acetophenone glucoside.
 Matthew R. Dintzner, Kristen M. McClelland, and Debbie Coligado
225th National Meeting of the American Chemical Society, New Orleans, LA;
 American Chemical Society: Washington, D. C., **2003**; ORGN 429.
- *5. Application of Montmorillonite clays in natural products synthesis.
 Matthew R. Dintzner, Kristen M. McClelland, and Kara M. Morse.
227th National Meeting of the American Chemical Society, Anaheim, CA: American
 Chemical Society: Washington, D. C., **2004**; ORGN 132.
- *6. Progress toward the synthesis of *cis*-2,3-epoxy-5-phenylpentan-1-ol derivatives,
 precursors to potential HIV-1 protease inhibitors.
 Matthew R. Dintzner, Thomas W. Lyons, Michael H. Akroush, and Paul Wucka
229th National Meeting of the American Chemical Society, San Diego, CA;
 American Chemical Society: Washington, D. C., **2005**; ORGN 161.

Supervision of Undergraduate and Graduate Research

- 2001 Tom Lynch, M.S., Junior Year Experiential Learning
- 2001 Elena Lucchetta, B.A., Undergraduate Summer Research Fellow,
 Honors Thesis
- 2001 Nick Richert, Andrea Toth, Summer Undergraduate Research
 Assistant Program Participants
- 2001 Debbie Coligado, IL Louis Stokes Alliance for Minority
 Participation in Undergraduate Research Fellow
- 2002 Aaron Kunzer, M.S. Thesis, *Conversion of 2-Aryl-1,1-dibromoalkenes to
 2-Aryl-1-acetamides Under Mild Conditions and Other Related
 Transformations* (1/11/02, with distinction)
- 2002 Andrea Toth, Undergraduate Research Assistant (Winter, Spring)
- 2002 Debbie Coligado, Junior Year Experiential Learning and IL Louis Stokes
 Alliance for Minority Participation in Undergraduate Research Fellow
- 2002 Kristen McClelland, Billy McDermott, Kara Morse, Undergraduate
 Summer Research Fellows
- 2002 Chris Luiz, Summer Undergraduate Research Assistant
- 2002 Anthony Arena Alexandroff Fellow
- 2002 Kara Morse, Kristen McClelland, Chris Luiz, Syed Haq, Eddie Tadros
 Junior Year Experiential Learning
- 2003 Thomas Ribaud, M.S. Thesis
- 2003 Kara Morse, Undergraduate Research Assistant (Winter, Spring)
- *2003 Kara Morse, Undergraduate Summer Research Fellow, Alexandroff
 Fellow

- *2003 Kristen McClelland, Claire Boothe Luce Fellow, Undergraduate Summer Research Fellow, Alexandroff Fellow
- *2004 Adam Rzepka, Volunteer
- *2004 Kristen McClelland, Undergraduate Research Assistant (Winter, Spring)
- *2004 Tom Lyons and Michael Akroush, Undergraduate Summer Research Fellows, Alexandroff Fellows
- *2004 Tom Lyons, Undergraduate Research Assistant (Autumn)
- *2004 Paul Wucka, Volunteer
- *2005 Tom Lyons, Honors Thesis
- *2005 Mike Akroush, Junior Year Experiential Learning

Other Professional Activities

- 2001 Authored *MediaPortfolio* to accompany Petrucci, Harwood and Herring's *General Chemistry 8th ed.* (Prentice Hall Publishing Co.)
- 2002 Authored comparative review of *Organic Chemistry 5th ed* by Carey and *Organic Chemistry 3rd ed* by Bruice for McGraw-Hill
- 2002 Chemical Education Research Reviewer (*Journal of Chemical Education*)
- 2002 Guest-lecturer at Syracuse University's Career Workshop for Summer REU Students (July, 2002, Syracuse, NY)
- 2002 Authored comparative review of *Organic Chemistry 5th ed* by Carey and *Organic Chemistry 7th ed* by Solomons and Fryhle for McGraw-Hill
- 2002 Authored comparative review of *Organic Chemistry 5th ed* by Carey and *Organic Chemistry 5th ed* by McMurry for McGraw-Hill
- 2002 Authored comparative review of *Organic Chemistry 5th ed.* by Carey and *Organic Chemistry 5th ed.* by Wade for McGraw-Hill
- *2003 Reviewed *Organic Chemistry 4th ed.* by Bruice (Prentice Hall)
- *2003 Reviewed Petroleum Research Fund grant application
- *2003 Reviewed Study Guide/Solutions Manual for Bruice's *Organic Chemistry 4th ed.* (Prentice Hall)
- *2003 Invited as a reviewer for the *Journal of Chemical Education*
- *2004 Technical consultant for Leydig, Voit & Meyer, Ltd. law fi
- *2004 Invited as a reviewer for the *Journal of Organic Chemistry* and the journals *Organic Letters*, *Synthesis*, and *Synlett*
- *2004 Reviewed chapters for Francis A. Carey's *Organic Chemistry (6th ed.)*, published by McGraw-Hill
- *2005 Invited to attend the McGraw-Hill Organic Chemistry Symposium in Tucson, AZ (March 31-April 3, 2005)

Service

Department

- 2000 Participated in search for new laboratory coordinator
- 2000 Severed on Master's thesis defense committee for Phil Dittmer, Biochemistry (6/8/00)
- 2000 Participated in "Life After DePaul" Seminar (9/22/00)
- 2001 Participated in search for new laboratory coordinator
- 2001 Taught Independent Study (CHE 500) in Organic Synthesis (Spring Quarter)
- 2001 Departmental Curriculum Assessment Subcommittee
- 2001 Subcommittee for tenure-track Biochemist search
- 2001 Participated in "Life After DePaul" Seminar (9/28/01)
- 2001 Participated in National Chemistry Week "Fun Show" with Chemistry Club (11/9/01)
- 2001 Co-Advisor of the Chemistry Club
- 2002 Participated in LA & S Graduate Programs Open House (3/16/02)
- 2002 Participated in Preview DePaul Open House (4/21/02)
- 2002 Drafted Departmental Annual Assessment Report with Rick Niedziela (4/1/02)
- 2002 Search committee for new Administrative Assistant (5/02)
- 2002 Chemistry Club Advisor
- 2002 Participated in "Life After DePaul" Seminar (10/11/02)
- 2002 Represented Department at LA & S Fall Open House (10/02)
- 2003 Represented Department at LA & S Winter Open House (2/03)
- 2003 Worked with Chemistry Club to bring in guest speakers (2/03, 5/03)
- *2003 Participated in Preview DePaul Open House (4/27/03)
- *2003 Conducted Departmental Annual Assessment Project and drafted report (4/15/03)
- *2003 Represented the Graduate Program at the DePaul Sciences Networking Event (4/23/03)
- *2003 Taught Independent Study (CHE 500) in Organic Synthesis (Spring Quarter)
- *2003 Search committee for tenure-track inorganic chemist
- *2003-4 Chemistry Club Advisor
- *2003 Developed lab report writing guidelines for departmental web site with Rick Niedziela
- *2003 Participated in "Life After DePaul" Seminar (10/17/03)
- *2003 Helped draft proposal for modified 2-quarter sequence of General Chemistry (12/03)

- *2003 Supervised writing intensive “common hour component” for all Experiential Learning courses offered by the Chemistry Department
- *2003 Participated in Preview DePaul Open House (4/18/04)
- *2004 Conducted Departmental Annual Assessment Project and drafted report (4/15/04)
- *2004 Put together the departmental 2004 Five-Year Report to the ACS Committee on Professional Training for Re-accreditation (11/04)
- *2005 Departmental Annual Assessment Project

College

- 2000 Participated in LA&S Assessment Experience (12/00)
- 2001 Participated in DePaul University “Science Day” (2/10/01)
- 2001 Participated in the Science, Math, & Technology Curriculum Evaluation Symposium (5/12/01)
- 2001 Barat College Interdisciplinary Majors Committee
- 2001 Served as Summer Academic Advisor
- 2001 Spoke at New Faculty Seminar, “Stories of the First Year” (9/21/01)
- 2001 Gave seminar at Faculty Research Seminar Series (10/16/01)
- 2001 Participated in DePaul University “Science Day” (11/3/01)
- 2002 Served as Summer Academic Advisor
- *2002, 03 Experiential Learning Oversight Committee for Liberal Studies Council
- *2002 Participated in DePaul University "Science Day" (11/2/02)
- *2003 Participated in *Natural Sciences, Mathematics and Technology Showcase* (11/7/03)
- *2003 Participated in DePaul University “Science Day” (11/8/04)
- *2004 Served as interviewer for the DePaul University Schmitt/Bauer Scholarship Program (2/04)
- *2004 Served as Academic Advisor for incoming and transfer students (winter, spring and summer)
- *2004 Writing Center liaison for the sciences

University

- 2002-04 Teaching, Learning, and Assessment (TLA) Faculty Advisory Board
- 2002 Research on Writing Task Force (TLA)
- *2003 Learning Goals Task Force (TLA)
- *2004 Honors Science Subcommittee for the development of a new University-Wide Honors Program
- *2004 Liberal Studies Council

Community

- 2000 Participated in “Vincentian Community Service Day” (5/6/00)
- 2000 Participated in AIDS Walk Chicago, raised funds for
The Children's Place (9/24/00)
- 2000 Served as a judge for the Drummond School local Science Fair
(11/17/00)
- 2001 Participated as co-team leader in “Vincentian Community Service Day”
(5/19/01)
- 2001 Served as a judge for the Arai School's local Science Fair (11/01)
- 2001 Served as a judge for the Walter Payton College Prep School Science Fair
(12/01)
- 2002 Participated as Team Leader in "Vincentian Community Service Day"
(5/02)
- 2002 Participated as judge for the Walter Payton College Prep School Science
Fair (12/5/02)
- 2002 Participated as judge for the Drummond School local Science Fair
(12/6/02)
- *2003 Organized group of chemistry students and staff to participate in
"Vincentian Community Service Day" (5/03)
- *2004 Editorial Review Board for *Chicago Health & Beauty* magazine
- *2004 Interviewed by WBBM radio for expert commentary on a news piece that
ran in both the *Chicago Tribune* and the *Chicago Sun Times* (“Court
restores job lost to drug test,” 6/14/04)
- *2004 Served as a judge for the Taft High School Science Fair (11/04)