CURRICULUM VITAE

Amanda Cordelia Bryant-Friedrich

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EDUCATION

***Dr. rer. nat.* (rerum naturalium)**, Pharmaceutical Chemistry, Ruprecht-Karls Universität, Heidelberg, Germany, 1997, Advisor: Prof. Dr. Richard Neidlein

Master of Science, Chemistry, Duke University, Durham, NC, 1992, Advisor: Dr. Richard Polniaszek

Bachelor of Science, Chemistry, North Carolina Central University, Durham, NC, 1990

ACADEMIC/TEACHING EXPERIENCE

Associate Professor, Oakland University, Rochester, MI, 2006-present

Director, Michigan Eastern Regional Center for Undergraduate Research in Chemistry, Oakland University, Rochester, MI, 2004-present

Assistant Professor, Oakland University, Rochester, MI, 2000-2006

Lecturer, Wayne State University, Detroit, MI, 1999-2000

Adjunct Faculty, Wayne State University, Detroit, MI, 1999

Postdoctoral Fellow, Universität Basel, Basel, Switzerland, 1997-1999, Advisor: Prof. Dr. Bernd Giese

COURSES TAUGHT

Undergraduate

Organic Chemistry
Organic and Biological Chemistry
Organic Chemistry Lab
Advanced Organic Chemistry Lab

Graduate

Pharmaceutical Chemistry
Bioorganic Chemistry

COURSES DEVELOPED

Pharmaceutical Chemistry

Students are introduced to the use of organic principles in the design and development of pharmaceutical agents. The lectures are based on themes from current journal articles, which dictate the direction of the development of drug discovery. Topics included are: Computer based drug design, principles of medicinal chemistry, drug metabolism, pharmacokinetics, combinatorial chemistry and drug action.

Bioorganic Chemistry

The organic reactions, which make up the biological world, are introduced and explained from a mechanistic perspective. One of the primary themes of the course is the role of biological reactive intermediates in the function and damage of macromolecules. The lectures in this course are based on topics derived from current journal articles.

ACADEMIC HONORS AND AWARDS

Oakland University Faculty Recognition Award, 2002.

PUBLICATIONS

CHAPTER IN A BOOK

T. Berry and N. Mizelle, eds. (2006) "From Oppression to Grace: Women of Color and Their Dilemmas Within the Academy", Stylus Publishing, LLC, Virginia. (Solicited, contributing author.)

REFEREED PUBLICATIONS

G. Lahoud, A. Hitt, **A. Bryant-Friedrich**, "The aerobic fate of the C-3'-thymidinyl radical in single stranded DNA", submitted to *Chemical Research in Toxicology*. (in press).

G. Lahoud, J. Fancher, S. Grosu, B. Cavanaugh, and **A. Bryant-Friedrich**, "Automated Synthesis, Characterization and Structural Analysis of Oligonucleotide C-3'-Radical Precursors", Bioorg. Med. Chem., **2006**, 14, 2581-2588.

A. Bryant-Friedrich "Generation of a C-3'-Thymidinyl Radical in Single-Stranded Oligonucleotides under Anaerobic Conditions", *Org. Lett.*, **2004**, 6, 2329.

D. Becker, **A. Bryant-Friedrich**, C. Trzasko, M. Sevilla, "Electron Spin Resonance Study of DNA Irradiated with Argon Heavy Ion Beams: Evidence for Formation of Sugar/Phosphate Radicals", *Radiation Research*, **2003**, *160*, 174.

S. Körner, **A. Bryant-Friedrich**, B. Giese, "C-3'-α- and β-Branched 2'-Deoxythymidines as Precursors for the Selective Generation of C-3'-Nucleoside Radicals", *J. Org. Chem*. **1999**, *64*, 1559.

A. Bryant-Friedrich and R. Neidlein, "Syntheses and Properties of Donor/Acceptor Arylethynyl-Substituted 1,6-Methano[10]annulenes", *Helv*. *Chim*. *Acta*, **1997**, *80*, 1639.

A. Bryant-Friedrich and R. Neidlein, "Syntheses and Reactions of Thio-substituted 1,6-Methano[10]annulenes", *Helv. Chim. Acta*, **1997**, *80*, 128.

A. Bryant-Friedrich and R. Neidlein, "Synthesis and Chemical Reactions of New Ethynyl-Substituted 1,6-Methano[10]annulenes", *Synthesis*, **1995**, 1506.

IN PREPARATION

G. Lahoud and A. Bryant-Friedrich, "Mechanism of C-3'-thymidinyl radical initiated degradation of single stranded DNA", in preparation for submission to *Chemical Research in Toxicology*.

M. Coote, D. Murray, A. Bryant-Friedrich, "Characterization and DNA Binding Behavior of a Bistriarylmethane Dye" in preparation for submission to *Bioorganic and Medicinal Chemistry*.

GRANTS

EXTRAMURAL

PENDING
Oakland University REU Program in Chemical and Environmental Toxicology, National Science Foundation, 05/01/2007 – 04/30/2011, $1,069,427.

FUNDED
Supplement to CAREER Award, "CAREER: C-3'-Nucleic Acid Radicals: Generation and Mechanistic Investigations", National Science Foundation, 02/06/03-02/05/08, $30,000.

Undergraduate Research Centers (URC), "Oakland University Undergraduate Research Center", National Science Foundation, co-investigator with A. Bull and J. Seeley, $64,010.

CAREER Award, "CAREER: C-3'-Nucleic Acid Radicals: Generation and Mechanistic Investigations", National Science Foundation, 02/06/03-02/05/08, $408,000.

Pre-College Education Program, Public Outreach Program, "High School Student Based Atmospheric Chemistry Research Project", Michigan Space Grant Consortium, co-investigator with John Seeley and Arthur Bull, $5,000.

Minority Planning Grant, "C-3'-Nucleic Acid Radicals: Generation and Mechanistic Investigation", National Science Foundation, 6/01-11/02, $17,962.

INTRAMURAL

FUNDED
Research Excellence Fund, "Synthesis of a C-5'-Radical Precursor", Center for Biomedical Research, Oakland University, 4/03-4/04, $7,000.

Research Excellence Fund, "Synthesis and Evaluation of Probe Containing Oligonucleotides", Center for Biomedical Research, Oakland University, 4/02-4/03, $6,500.

Research Excellence Fund, "Synthesis and Evaluation of Probe Containing Oligonucleotides", Center for Biomedical Research, Oakland University, 4/02-4/03, $6,500.

Research Excellence Fund, "C-3'-Nucleic Acid Radicals", Center for Biomedical Research, Oakland University, 4/01-4/02, $6,000.

Computer Course Fee Fund, "Chemistry Department Computer Lab Equipment Replacement Request: Computer Course Fee Fund", Oakland University, Originating Faculty: M. Severson, M. Bryant, A. Bull, A. Bryant-Friedrich, 7/01-6/02, $20,000.

Faculty Research Fellowship, "C-3'-Radical Initiated Strand Cleavage of Nucleic Acids", University Research Committee, Oakland University, 5/01-8/01, $7,500.

Minority/Women Summer Grant, "The C-3'-Radical Induced Cleavage of DNA: An Investigation", Wayne State University, 5/00-9/00, $4,500.

INVITED SEMINARS

S. Grosu**,** G. A. Lahoud**,** and **A. C. Bryant-Friedrich**, "Stereoselectivity of Repair and Lifetime of C-3'-DNA Radicals", 53rd Annual Meeting of the Radiation Research Society, Philadelphia, Pennsylvania, 2006.

A. C. Bryant-Friedrich, Departmental Seminar, *Medical University of Ohio*, Toledo, Ohio, 2006.

A. C. Bryant-Friedrich, "The Significance of a Single Oxidative Event in DNA Damage", Departmental Seminar, *University of California, Davis,* 2006.

A. C. Bryant-Friedrich, "Genesis of Oxidative Damage", Seminar, *Madonna University*, Livonia, Michigan, 2006.

A. C. Bryant-Friedrich and G. A. Lahoud, "Oligonucleotide Fragmentation Products Derived from the C-3'-Thymidinyl Radical", Biological Reactive Intermediates Conference VII: BRIs and Human Health and Disease, Tuscon, Arizona, 2006.

A. C. Bryant-Friedrich, "Probing the Chemical World of DNA", Departmental Seminar, *Oakland University*, Rochester, Michigan, 2005.

A. C. Bryant-Friedrich, "The Role of the C-3'-Nucleotide Radical in DNA Damage", Symposium: Chemistry and Biology of Deoxyribose Oxidation*,* 52nd Annual Meeting of the Radiation Research Society, Denver, Colorado, 2005.

A. C. Bryant-Friedrich, "Elucidating the Role of Sugar Radicals in DNA Damage", Departmental Seminar, *Wayne State University,* Department of Biochemistry, Detroit, Michigan, 2005.

A. C. Bryant-Friedrich, "Diversity in Chemistry", Broader Impacts Showcase, National Science Foundation, American Chemical Society 230th Fall National Meeting, Philadelphia, Pennsylvania, 2005.

A. C. Bryant-Friedrich, "Elucidating the Role of Sugar Radicals in DNA Damage", Departmental Seminar, *Michigan State University,* Department of Organic Chemistry, East Lansing, Michigan, 2005.

A. C. Bryant-Friedrich, "Elucidating the Role of Sugar Radicals in DNA Damage", Departmental Seminar, *University of Michigan,* Department of Medicinal Chemistry, Ann Arbor, Michigan, 2005.

A. C. Bryant-Friedrich, "Elucidating the Roles of Sugar Radicals in DNA Damage", Departmental Seminar, *Wake Forest University*, Wake Forest, North Carolina, 2005.

A. C. Bryant-Friedrich, "Student Success Stories - Past", Meeting of Minds XIII, Oakland University, Rochester, 2005.

A. C. Bryant-Friedrich, "Radical Induced Nucleic Acid Damage", Departmental Seminar, *Eastern Michigan University*, Ypsilanti, Michigan, 2003.

A. C. Bryant-Friedrich, "Radical Induced Nucleic Acid Damage", Departmental Seminar, *Oakland University,* Rochester, Michigan, 2003.

A. C. Bryant-Friedrich, "CAREER: C-3'-Nucleic Acid Radicals: Generation and Mechanistic Investigations", National Science Foundation CAREER Workshop, Arlington, Virginia, 2004.

A. C. Bryant-Friedrich, "Mechanistic Investigations into the Cleavage of DNA *via* a C-3'-Radical", National Science Foundation Workshop on Physical Organic Chemistry, Newport, Rhode Island, 2003.

A. C. Bryant-Friedrich, "The Use of Modified Nucleosides for the Investigation of Oxidative Processes in Nucleic Acids", Sigma Xi Seminar Luncheon Series, Oakland University, Rochester, Michigan, 2001.

A. C. Bryant-Friedrich, "Nucleoside Radicals", Departmental Seminar, *Andrews University*, Berrien Springs, Michigan, 2001.

PRESENTATIONS AND ABSTRACTS

S. Grosu**,** G. A. Lahoud**,** and **A. C. Bryant-Friedrich**, "Stereoselectivity of Repair and Lifetime of C-3'-DNA Radicals", American Chemical Society 232nd Fall National Meeting, San Francisco, California, 2006.

A. C. Bryant-Friedrich and G. A. Lahoud, "Elucidation of the Mechanism of Degradation of the C-3'-DNA Radical under Aerobic Conditions", Biological Reactive Intermediates Conference VII: BRIs and Human Health and Disease, Tuscon, Arizona, 2006.

Amy L. Sloat, Christa L. Colyer, Georges Lahoud, **Amanda Bryant-Friedrich**, "CE-ESI-MS Analysis of C-3'-Radical Derived Oxidative Damage Products", Triangle Chromatography Discussion Group, Raleigh, North Carolina, 2005.

A. C. Bryant-Friedrich, "Oxidative DNA Damage Initiated by a C-3'-Radical Under Aerobic Conditions", Free Radical Reactions, Gordon Research Conference, Plymouth, New Hampshire, 2005. (poster selected for oral presentation)

A. C. Bryant-Friedrich, "Independent Generation of Nucleic Acid Radicals and MERCURIC: Michigan Eastern Regional Center for Undergraduate Research in Chemistry", Oakland University Center for Biomedical Research, Rochester, Michigan, 2005.

G. Lahoud, **A. C. Bryant-Friedrich**, "Spontaneous Cleavage of a 3'-DNA Radical under Aerobic Conditions", American Chemical Society 228th Fall National Meeting, Philadelphia, Pennsylvania, 2004.

A. C. Bryant-Friedrich, G. Lahoud, "Anaerobic Studies of Sponanteous DNA Strand Scission by a C-3'-Radical", American Chemical Society 228th Fall National Meeting, Philadelphia, Pennsylvania, 2004.

A. C. Bryant-Friedrich, G. Lahoud, "Anaerobic Studies of DNA Strand Scission by a C-3'-Radical", Life Science Networking, Oakland University, Rochester Michigan, 2004.

A. C. Bryant-Friedrich, G. Lahoud, "Oxidative DNA Damage Initiated by a C-3'-Radical under Aerobic Conditions", Life Science Networking, Oakland University, Rochester Michigan, 2004.

A. C. Bryant-Friedrich, G. Lahoud, "Oxidative DNA Damage Initiated by a C-3'-Radical under Aerobic Conditions", 8th International Workshop on Radiation Damage to DNA, Banff, Canada, 2004. (refereed)

G. Lahoud, **A. C. Bryant-Friedrich**, "Oxidative DNA Damage Initiated by a C-3'-Radical", American Association for Cancer Research, Radiation Biology and Cancer: From Molecular Responses to the Clinic, Dana Point, California, 2004.

A. C. Bryant-Friedrich, "Diversification of the Chemical Workforce Through Curriculum Development", Meeting Michigan College Chemistry Teachers Association, University of Detroit-Mercy, Detroit, Michigan, 2003.

G. Lahoud, **A. Bryant-Friedrich**, "C-3'-Modified Nucleosides for the Investigation of Radical Initiated DNA Strand Scission", 225th ACS National Meeting, New Orleans, Louisiana, 2003.

M. D. Sevilla, C. A. Trzasko, **A. C. Bryant-Friedrich**, D. Becker, "Sugar Radical from Immediate Strand Breaks in Heavy Ion Irradiated DNA", Radiation Research Society Annual Meeting, Reno, Nevada, 2002.

A. C Bryant-Friedrich, "C-3'-Modified Nucleosides for the Investigation of Radical Initiated DNA Strand Scission", 2001 Fall Biomedical Research Forum, Oakland University, Rochester, Michigan. 2001.

A. C Bryant-Friedrich, "C-3'-Modified Nucleosides for the Investigation of Radical Initiated DNA Strand Scission", 7th International Workshop on Radiation Damage to DNA, Nouan-Le Fuzelier, France. 2001. (refereed)

A. Bryant-Friedrich, B. Giese, "Selective Generation of C-3' Nucleoside Radicals: An Appropriate Precursor", Gordon Research Conference on Bioorganic Chemistry, Proctor Academy, Andover, New Hampshire. 2000.

PRESENTATIONS AND ABSTRACTS WITH UNDERGRADUATES

K. Williams, A. Dvir, **A. Bryant-Friedrich**, The Effects of DNA Damage Products on Transcription", Sigma Xi 2006 Annual Meeting & Student Research Conference, Detroit, MI, 2006.

J. Muhammad, **A. Bryant-Friedrich**, "Investigation of C-3'-Radical Adducts: 3'-Ketonucleosides", Sigma Xi 2006 Annual Meeting & Student Research Conference, Detroit, MI, 2006.

K. Williams, A. Dvir, **A. Bryant-Friedrich**, The Effects of DNA Damage Products on Transcription", Michigan Eastern Regional Center for Undergraduate Research in Chemistry & Merck/AAAS Summer 2006 Research Presentations, Oakland University, Rochester, MI, 2006.

J. Muhammad, **A. Bryant-Friedrich**, "Investigation of C-3'-Radical Adducts: 3'-Ketonucleosides", Michigan Eastern Regional Center for Undergraduate Research in Chemistry & Merck/AAAS Summer 2006 Research Presentations, Oakland University, Rochester, MI, 2006.

S. Maltese, **A. Bryant-Friedrich**, "Spin-Trapping of DNA Radicals", Michigan Eastern Regional Center for Undergraduate Research in Chemistry & Merck/AAAS Summer 2006 Research Presentations, Oakland University, Rochester, MI, 2006.

R. Brothers, **A. Bryant-Friedrich**, "Synthesis of a 2',3'-Dideoxynucleoide Radical Precursor", Michigan Eastern Regional Center for Undergraduate Research in Chemistry & Merck/AAAS Summer 2006 Research Presentations, Oakland University, Rochester, MI, 2006.

L. Jensen, **A. Bryant-Friedrich**, A. Dvir, "Investigating the Effect of DNA Damage Lesions on Transcription", "Capturing the Genetic Capability to Make New Natural Products, Metropolitan Detroit American Chemical Society Student Affiliate Meeting, Oakland University, Rochester, MI, 2006.

C. Harvey, **A. Bryant-Friedrich**, Linda Schweitzer, J. Zeilstra-Ryalls, "Capturing the Genetic Capability to Make New Natural Products, Metropolitan Detroit American Chemical Society Student Affiliate Meeting, Oakland University, Rochester, MI, 2006.

A. Chornoby, S. Townsend, **A. Bryant-Friedrich**, "Synthesis of a C-5'-Nucleoside Radical Precursor", Center for Biomedical Research & Merck/AAAS Summer 2005 Research Presentations, Oakland University, Rochester, MI, 2005.

L. Jensen, **A. Bryant-Friedrich,** A. Dvir, "Investigating the Effect of DNA Damage Lesions on Transcription", Center for Biomedical Research & Merck/AAAS Summer 2005 Research Presentations, Oakland University, Rochester, MI, 2005.

L. Jensen, **A. Bryant-Friedrich**, A. Dvir "Investigating the Effect of DNA Damage Lesions on Transcription", Meeting of Minds XIV, University of Michigan, Dearborn, Dearborn, MI, 2005.

C. Harvey, **A. Bryant-Friedrich**, Linda Schweitzer, J. Zeilstra-Ryalls, "Capturing the Genetic Capability to Make New Natural Products, Center for Biomedical Research & Merck/AAAS Summer 2005 Research Presentations, Oakland University, Rochester, MI, 2005.

J. John, G. Lahoud, **A. Bryant-Friedrich**, "Synthesis of a Radical Derived DNA Damage Product", Michigan Eastern Regional Center for Undergraduate Research in Chemistry Summer 2005 Research Presentations, Oakland University, Rochester, MI, 2005.

B. Cavanaugh, **A. Bryant-Friedrich**, "Determination of the Mechanism of C-3'-DNA Induced Strand Scission Under Anaerobic Conditions, Center for Biomedical Research Summer 2004 Research Presentations, Oakland University, Rochester, MI, 2004.

S. Abdallah, J. Zimmer, **A. Bryant-Friedrich**, "Synthesis of Halogenated Anthraquinones as Model DNA Intercalators", 225th ACS National Meeting, New Orleans, Louisiana, 2003.

J. Fancher, **A. Bryant-Friedrich**, "C-3'-DNA Conjugates", 225th ACS National Meeting, New Orleans, Louisiana, 2003.

K. Forzley, **A. Bryant-Friedrich**, "Effects of Chromophore Structure on DNA Intercalation", 225th ACS National Meeting, New Orleans, Louisiana, 2003.

C. Trzasko, **A. Bryant-Friedrich**, "Interaction of Low-Energy Ionizing Radiation with the DNA Backbone: Production of a C-3'-Radical?", 225th ACS National Meeting, New Orleans, Louisiana, 2003.

C. Trzasko and **A. C. Bryant-Friedrich**, "Interactions of Low-Energy Ionizing Radiation with the DNA Backbone: Production of a 2',3'-Dideoxy-C-3'-Nucleoside Radical?", 7th International Workshop on Radiation Damage to DNA, Nouan-Le Fuzelier, France. 2001. (refereed)

C. Trzasko and **A. C. Bryant-Friedrich**, "Interactions of Low-Energy Ionizing Radiation with the DNA Backbone: Production of a 2',3'-Dideoxy-C-3'-Nucleoside Radical?", Meeting of the Minds, University of Michigan-Flint, Flint, Michigan. 2001.

D. Crowl and **A. C. Bryant-Friedrich**, "C-3'-Modified Nucleosides for the Investigation of Radical Initiated DNA Strand Scission", Meeting of the Minds, University of Michigan-Flint, Flint, Michigan. 2001.

Todd M. Muszynski and **A. C. Bryant-Friedrich**, "C-3'-Radicals in RNA Strand Cleavage: A Radical Precursor", Meeting of the Minds, University of Michigan-Flint, Flint, Michigan. 2001.

CherylAnn Trzasko and **A. C. Bryant-Friedrich**, "Interactions of Low-Energy Ionizing Radiation with the DNA Backbone: Production of a 2',3'-Dideoxy-C-3'-Nucleoside Radical?", American Chemical Society Student Affiliates Meeting, University of Detroit Mercy, Detroit, Michigan. 2001.

D. Crowl and **A. C. Bryant-Friedrich**, "C-3'-Modified Nucleosides for the Investigation of Radical Initiated DNA Strand Scission", American Chemical Society Student Affiliates Meeting, University of Detroit Mercy, Detroit, Michigan. 2001.

Todd M. Muszynski and **A. C. Bryant-Friedrich**, "C-3'-Radicals in RNA Strand Cleavage: A Radical Precursor", American Chemical Society Student Affiliates Meeting, University of Detroit Mercy, Detroit, Michigan. 2001.

C. Trzasko and **A. C. Bryant-Friedrich**, "Interactions of Low-Energy Ionizing Radiation with the DNA Backbone: Production of a 2,'3'-Dideoxy-C-3'-Nucleoside Radical?", 2001 Fall Biomedical Research Forum, Oakland University, Rochester, Michigan. 2001.

RESEARCH INTEREST

- Determine the impact of low-energy ionizing radiation on DNA through the independent generation of reactive intermediates believed to occur through this process.
- Investigation of the fate of the C-3'-radical in nucleosides and nucleotides.
- Synthesis and utilization of C-3'- modified nucleosides for the investigation of radical initiated RNA Strand Cleavage.
- Synthesis and utilization of model systems for investigations into the effect of chromophore structure on sequence selective nucleic acid binding by anti-cancer drugs.
- Synthesis of probe containing oligonucleotides for the study of DNA-protein interactions.
- Synthesis and utilization of C-5'-modified nucleosides for the investigation of radical initiated DNA damage processes.

- Investigations into the impact of DNA damage products on DNA transcription and repair.
- Development and mechanistic investigations of new drug chromophores for photodynamic therapy.

COLLABORATORS

- Dr. Christine Chow, Wayne State University, "Synthesis of C-3'-Radical Precursor of Pseudouridine".
- Dr. Christa Colyer, Wake Forest University, "Development of Analytical Techniques for the Identification of DNA Damage Products".
- Dr. Peter Dedon, Massachusetts Institute of Technology, "DNA Adduct Formation from DNA Damage Products Resulting from the Aerobic Decomposition of the C-3'-DNA Radical".
- Dr. Arik Dvir, Oakland University, "The Impact of DNA Damage Products on Transcription".
- Dr. Anne Hitt, Oakland University, "Analysis of DNA Damage Products".
- Dr. Desmond Murray, Andrews University, "The Interactions of Boronic Acid Chalcones with DNA" and "The Interactions of Triarylmethane Dyes with Double Stranded DNA".
- Dr. Michael Sevilla, Oakland University, "Analysis of DNA Sugar Radicals and their Spin Adducts".

SERVICE-PUBLIC

Presenter, What Do Scientist Do? Lincoln Middle School, Pontiac, MI, 2003

Invited Speaker, "The Radical Way of Life", Rotary Club of Troy, San Marino Club, Troy, Michigan, 2002

Invited Speaker, "The Radical Way of Life", Optimist Club of Birmingham, Community House, Birmingham, Michigan, 2002

Judge, Jack and Jill of America, Oakland University, Rochester, MI, 2001

Several Offices, Alpha Kappa Alpha Sorority, Inc., 1989-2001

Invited Speaker, "Preparing Our Youth for the Next Millennium", Alpha Kappa Alpha Sorority, Inc., Pink and Green Scholarship Ball, Ramstein Officers Club, Ramstein, Germany, 1998

Creator/Presenter, Project in Math and Science, Alpha Kappa Alpha Sorority, Inc., Mu Psi Omega Chapter, Germany, 1996-1998

Invited Speaker, "African-American Women: Yesterday, Today and Tomorrow", Martin Luther King Annual Freedom March, Landstuhl Regional Medical Center, Landstuhl, Germany, 1996

SERVICE - PROFESSIONAL

UNIVERSITY SERVICE

Member, African American Month Celebration Committee, 2006-2007.

Member, Just A Sister Away Planning Committee, Retention Program for Minority Female Freshmen, 2006

Member, Search Committee Vice-Provost for Research, 2005-2006

Participant, Wade McCree/Project Upward Bound Senior Dinner, 2004 & 2005
Panel Participant, Rackham Graduate School & Oakland University Preparing Future Faculty Program, 2005

Member, Search Committee Vice-Provost for Research, 2004-2005

Member, University Senate, 2004

Participant, King Chavez Parks Summer Programs, 2003-present

Member, University Research Committee, 2003-2005

Mentor, Mentor Alliance Program, 2001

Faculty Advisor, Zeta Phi Beta Sorority, 2001

COLLEGE SERVICE

Member, Graduate Studies Committee, 2002-2004

Member, Laboratory and Instrumentation Coordinator Search Committee, 2006

DEPARTMENTAL SERVICE

Chair, Graduate Committee, 2006-present

Member, Assistant Laboratory Manager Search Committee, 2006

Member, Organic Faculty Search Committee, 2005-2006

Member, Biochemistry Faculty Search Committee, 2004-2005

Member, Laboratory Manager Search Committee, 2005

Member, Steering Committee, 2003-2006

Member, Graduate Committee, 2002-2006

Advisor, Faculty Advisor SAACS, 2002-2004

Member, Inorganic Faculty Search Committee, 2001

Member, Faculty Personnel Action Committee, 2000

GRANT PROPOSAL REVIEW

CAREER Panel, **National Science Foundation**, 2006

CRIF:MU Panel, **National Science Foundation**, 2006

Study Section Ad hoc Member, Cancer Etiology, **National Institutes of Health**, 2006

Research Experiences for Undergraduates Panel, **National Science Foundation**, 2005

Major Research Instrumentation Panel, **National Science Foundation**, 2004

Study Section Ad hoc Member, Cancer Etiology, **National Institutes of Health,** 2003

Study Section Ad hoc Member, Cancer Pathology, **National Institutes of Health**, 2002

Grant proposal review for the **National Science Foundation**, 2001-present

Grant proposal review for the **U.S. Civilian Research and Development Foundation**, 2001

JOURNAL ARTICLE REVIEW

Journal of Organic Chemistry

Organic Letters

Chemical Research in Toxicology

Bioorganic and Medicinal Chemistry

PROFESSIONAL MEMBERSHIPS

American Association for Cancer Research
Chemistry in Cancer Research Working Group
Young Chemists Committee of the Chemistry in Cancer Research Working Group

American Association for the Advancement of Science

American Chemical Society
Divisions: Organic
Chemical Toxicology
Biological Chemistry

Gesellschaft Deutscher Chemiker (German Chemical Society)

Sigma Xi

Investigator, Center for Biomedical Research, Oakland University

Radiation Research Society

RESEARCH INSTRUCTION

PARTICIPANT

Merck/AAAS Undergraduate Science Research Program

Center for Biomedical Research Summer Research Program

Michigan Eastern Regional Center for Undergraduate Research Summer Research Program

Center for Biomedical Research/Pfizer Summer Research Program

CURRENT GRADUATE STUDENTS (PHD)

Rehana Zaidi (expected 2009)

Rupali Aggrawal (expected 2010)

FORMER GRADUATE STUDENTS (PHD)

George Lahoud (Thomas Jefferson University, Postdoctoral Fellow)

Sanda Grosu (Currently employed by Ash-Stevens)

Adam Lee (PhD student at the University of Michigan)

CURRENT GRADUATE STUDENTS (MS THESIS)

Ana Bogichi (expected 2007)

Monique Wilhelm (expected 2008)

Buthina Abdallah (expected 2008)

Suaad Abdallah (expected 2008)

FORMER GRADUATE STUDENTS (MS THESIS)

Michael Coote (Police Department of Flint, MI)

CherylAnn Trzasko (Ash-Stevens)

Mariam Towadros (Pharmacy School)

PAST GRADUATE STUDENTS (MS NON-THESIS, WRITTEN PROJECTS)

Khaled Zreik

Andrew Dell

Kelly Miller

CURRENT UNDERGRADUATE RESEARCH STUDENTS

Adam Chornoby

Jameelah Muhammad

Heather Rejc

Michael Titus

Kimberly Williams

PAST UNDERGRADUATE RESEARCH STUDENTS

Suaad Abdallah
Bernard Acho
Ross Brothers
Sara Maltese
Bo Bezeau
David Crowl
Steven Gryniecwicz
Line Jensen
Janet John
Michael Jones
Andy Lam
Todd Muszynski
CherylAnn Trzasko
Jill Zimmer
Breyanna Cavanaugh
Steven Townsend
Nicolas Duvoisin
Kristen Forzley
Jesse Fancher
Thomas Walker

PAST HIGH SCHOOL STUDENTS

Brian Wardell
William Haines