

LOIS ABLIN

Curriculum Vitae 2016

Oral Roberts University
Department of Biology and Chemistry
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EDUCATION

Ph.D., Organic Chemistry, University of Nebraska, 1970
B.A., Augustana College, South Dakota, 1961
Additional classes: Northern Arizona University, 1986-1988

EXPERIENCE

Associate Professor of Chemistry, Oral Roberts University, 2008-present
Assistant Professor, Oral Roberts University, Tulsa, Oklahoma, 2001-2007
Adjunct Assistant Professor, Oral Roberts University, Tulsa, Oklahoma, 2000-2001
Adjunct Instructor, Tulsa Community College, Tulsa, Oklahoma, January, 1999-2000
Teaching Assistant, Tulsa Community College, August, 1998-December, 1998
Consulting and research, 1987-1994
Adjunct Assistant Professor, University of Nebraska, 1970-1971, 1973-1974
Research Associate, University of Nebraska, 1966-1970
Substitute Teacher, various public schools, various years, 1974-1991
Director, Words of Faith Bible College, Flagstaff, Arizona, 1983-1985
Associate Director, Words of Faith Bible College, Flagstaff, Arizona, 1982-1983

INSTRUCTIONAL EXPERIENCE

Organic Chemistry 211 and 212 Lecture and Laboratory, Fall 2000-present
Chemistry 499 Individual Research and Senior Paper, 2001-present
Chemistry 449 Research, 2005-present
Pre-Health Professions Seminar 100 (co-teach), Spring 2010-present
Organic Chemistry 473 Synthesis and Medicinal Chemistry, Spring 2001, Fall 2003, 2004
Principles of Chemistry 101 Laboratory, various

RESEARCH ACTIVITIES

Biginelli Reaction
Green Chemistry Principles in Organic Chemistry
Development of Organic Chemistry Experiments Using Microwave Technology

GRANTS RECEIVED

American Chemical Society Science Coach Grant
Presidents's Research Fund Grant, 2016
American Chemical Society Science Coach Grant, 2015
Gelvin Foundation, 2012
Rotary Club, Tulsa, 2011
Gelvin Foundation, 2009
Rotary Club, Tulsa, 2008
National Association of Advisors of Health Professions Travel Grant, 2008

PUBLICATIONS/PRESENTATIONS

- Ablin, L., (2016), "Implementation of Green Chemistry Concepts in Organic Chemistry Laboratory Using Experiments, Presentations, and Writing Assignments," Biennial Conference on Chemical Education, Greeley, Colorado.
- Ablin, L. and Rhodes, R. (2016), "Mentoring Elementary and High School Students through an Iota Sigma Pi Chapter: Participation by Two Universities in a Collaborative Project," Biennial Conference on Chemical Education, Greeley, Colorado.
- Welch, Benjamine, Ranahan, W., and Ablin, L (2016), "The Synthesis of Ethyl 4-(3-hydroxyphenyl)-6-methyl-2-Oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate and its Effect on the Proliferation Rates of HEK T293 Fibroblast Cells," 61st Pentasectional Meeting of the American Chemical Society, Bartlesville, Oklahoma.
- Purtell, Amanda and Ablin, L. (2015), "Development of a Microscale Procedure for the Suzuki Coupling Reaction to Produce 4-Acetylbiphenyl from Phenylboronic Acid and 4-Bromoacetophenone," 60th Pentasectional Meeting of the American Chemical Society, Pittsburg, Kansas.
- Youmans, Z., Ranahan, W., and Ablin, L. (2015), "Synthesis of Ethyl 4-(3-Fluorophenyl)-6-Methyl-2-Oxo-1,2,3,4-Tetrahydropyrimidine-5-Carboxylate and Its Effect on the Proliferation Rate of HEK T293 Fibroblast Cells, 60th Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma.
- Ablin L. (2016), Engaging Students with the Real World in a Green Chemistry Organic Laboratory Group Project: A Presentation and Writing Assignment in a Laboratory Class, Submitted to *J. Chem. Educ.* (under revision)
- Ablin, L. (2008), "Student Perceptions of Benefits of a Learner-based Writing Experience in Organic Chemistry," *J. Chem. Educ.*, 85. 237.
- Beyer, J., & Ablin, L. (2014), "Effects of Ethyl 4-(3-fluorophenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate on the Proliferation Rates of HT29 Colon Cancer

Cells, 59th Oklahoma Pentasectional Meeting of the American Chemical Society, Stillwater, Oklahoma.

Velasquez, C., & Ablin, L. (2013), *Development of a Microscale Procedure for the Synthesis of Isopentyl Acetate Using a Microwave Reactor*. 58th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma.

Sickler, R., & Ablin, L. (2013). *Optimization of Green Microscale Biginelli Reactions for the Sonicator and Microwave Reactor*, 58th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma, 2013

Clark, S., Ablin, L. (2013), "Isolation of Eugenol from Spices Using Microwave Technology," 58th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma.

Ablin, L., & Ritzhaupt, G. (2012), *Engaging Elementary School Students in Science Through Service Learning*. 57th Oklahoma Pentasectional Meeting of the American Chemical Society, Lawton, Oklahoma.

Jacob, J., & Ablin, L. (2011), *Synthesis and Characterization of Wittig Products: A Comparison of Synthetic Routes*. 56th Oklahoma Pentasectional Meeting of the American Chemical Society, Bartlesville, Oklahoma.

Sprouse, D., & Ablin, L. (2010), *The Synthesis of Resveratrol*. 55th Oklahoma Pentasectional Meeting of the American Chemical Society, Norman, Oklahoma.

Chau, B., Ritzhaupt, G., Ablin, L., & Collier, W. (2009), *Development of an Organic Chemistry Laboratory Experiment on Ethanol Production*. 54th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma.

Ablin, L., Ford, M., Dionne, J., & Natale, E. (2008), *Greening the Organic Chemistry Laboratory Through the Biginelli Reaction*. National Green Chemistry and Engineering Conference, Washington, DC.

Ablin, L. (2007), *Implementation of Green Chemistry Principles in An Organic Chemistry Writing Assignment*. National Green Chemistry and Engineering Conference, Washington, DC.

Ablin, L. (2006), *An Organic Chemistry Writing Experience*. Southwest Regional American Chemical Society Meeting, Houston, Texas.

Ford, M., & Ablin, L. (2005), *The Biginelli Reaction in Antibiotic Research*. 50th Oklahoma Pentasectional Meeting of the American Chemical Society, Stillwater, Oklahoma.

PRESENTATIONS

Welch, Benamine, Ranahan, W., and Ablin, L (2016), "The Synthesis of Ethyl 4-(3-hydroxyphenyl)-6-methyl-2-Oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate and

its Effect on the Proliferation Rates of HEK T293 Fibroblast Cells,” ORU Research Symposium.

Ablin, L. (2014, October). *Facilitating the Incorporation of Green Chemistry Principles in the Organic Chemistry Laboratory*. 103rd Annual Technical Meeting of the Oklahoma Academy of Science, Broken Arrow, Oklahoma.

Ablin, L., (2008, March). *Steps Toward Greening an Undergraduate Organic Laboratory*. 53rd Oklahoma Pentasectional Meeting of the American Chemical Society, Duncan, Oklahoma.

Ablin, L., (2007, November). *Green Chemistry Principles*. Tulsa section of American Chemical Society, Third Annual Evening of Chemistry, Tulsa, Oklahoma.

Ablin, L., (2005). *The Biginelli Reaction*. Tulsa section of American Chemical Society, Evening of Chemistry, Tulsa, Oklahoma.

Presentations at Faculty Showcase, Oral Roberts University 2002, 2003

PROFESSIONAL ACTIVITIES

Professional Organizations

American Chemical Society
 Alternate Counselor, Tulsa Local Section, 2014-
 Director, Tulsa Local Section, 2008-2010
 Treasurer, Tulsa Local Section, 2005-February, 2008

Sigma Xi

Kappa Delta Pi

Iota Sigma Pi, National Honor Society for Women in Chemistry
 Faculty advisor, 2005-present

Professional Conferences

Biennial Conference on Chemical Education, Greeley, CO, 2016

National Association of Advisors for the Health Professions, Minneapolis, MN 2016

61st Oklahoma Pentasectional Meeting of the American Chemical Society, Bartlesville, 2016

60th Oklahoma Pentasectional Meeting of the American Chemical Society, Pittsburg, Kansas, 2015

103rd Annual technical Meeting of Oklahoma Academy of Science, November, 2014, Broken Arrow, Oklahoma

National Association of Advisors for the Health Professions National Meeting, San Francisco, CA, June, 2014

59th Oklahoma Pentasectional Meeting of the American Chemical Society, Stillwater, Oklahoma, 2014

58th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma, 2013

National Association of Advisors for the Health Professions National Meeting, Baltimore, MD, June, 2012

IEEE Green Technologies Conference, Tulsa, Oklahoma, April, 2012
Committee member, reviewed professional papers

57th Oklahoma Pentasectional Meeting of the American Chemical Society, Lawton, Oklahoma, March, 2012

National Green Chemistry and Engineering Conference, Washington, D.C., June, 2011

55th Oklahoma Pentasectional Meeting Section of the American Chemical Society, Bartlesville, Oklahoma, April, 2011

Oklahoma Society of Physiologists Conference, Tulsa, Oklahoma, 2011

Biennial Conference on Chemical Education, Denton, TX, August, 2010

National Green Chemistry and Engineering Conference, Washington, D.C., June, 2010

National Association of Advisors for the Health Professions National Meeting, Atlanta, GA, June, 2010

54th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa, Oklahoma, April, 2010

53rd Oklahoma Pentasectional Meeting of the American Chemical Society, Bartlesville, Oklahoma, April, 2011

Delegate to Triennial National Meeting of Iota Sigma Pi National Honor Society for Women in Chemistry, Cincinnati, Ohio, June, 2008

Member of Chapter Program Development Committee

Member of Extension and Publicity Committee

National Green Chemistry and Engineering Conference, Washington, DC, June, 2008
Biofuels Conference, Oklahoma City, October 16, 2007
Workshop on Communication of Green Chemistry at National Green Chemistry
Conference, Washington, DC, June, 2007
Southwest Regional American Chemical Society meeting, Houston, TX, November, 2006
National Green Chemistry and Engineering Conference, Washington, DC, June, 2006
National Green Chemistry and Engineering Conference, Washington, DC, June, 2004
51st Oklahoma Pentasectional Meeting of the American Chemical Society, Bartlesville,
Oklahoma, April, 2006
50th Oklahoma Pentasectional Meeting of the American Chemical Society, Stillwater,
Oklahoma, April, 2005
46th Oklahoma Pentasectional Meeting of the American Chemical Society, Bartlesville,
Oklahoma. March, 2001
44th Oklahoma Pentasectional Meeting of the American Chemical Society, Tulsa,
Oklahoma, October, 1999

HONORS AND AWARDS

Outstanding Faculty Service Award, Department of Biology and Chemistry, 2016
Outstanding Faculty Service Award, Department of Biology and Chemistry, 2015
Outstanding Faculty Service Award, College of Science and Engineering, 2014
Outstanding Faculty Service Award, Department of Biology and Chemistry, 2014
Outstanding Faculty Service Award, Department of Biology and Chemistry, 2013
Outstanding Faculty Member in College of Science and Engineering, 2010
Outstanding Faculty Member in Chemistry Department, 2008
Outstanding Faculty Member in Chemistry Department, 2007
Who's Who Among American Teachers and Educators, 2006-2007
Outstanding Faculty Member in Chemistry Department, 2003
Nominated for Scholar of the Year, 2005
Who's Who Among American Teachers and Educators, 2003
Honorable Mention, Chair's Award for Mentoring in the Classroom, Oral Roberts
University, 2002
Writing Across the Disciplines, Second place, Oral Roberts University, 2004
Sigma Xi
Nominated for Who's Who Among American Teachers and Educators, 2002
Outstanding Young Women of America (1970)
B.A., Summa Cum Laude
National Institute of Health Fellow, 3 years

COMMUNITY/UNIVERSITY SERVICE

Oklahoma NSF EPSCoR Women in Science Conference, Tulsa, 2016
Advisor, American Chemical Society, ORU, 2016
Science Coach, McClure Elementary School, 2015-2016
Brownie Day and Girl Scout Day, Tulsa, OK 2016
Oklahoma NSF EPSCoR Women in Science Conference, Tulsa, 2015
Writing Across the Disciplines Committee, ORU, 2015-2016
Coordinator of Service Learning project for chemistry students at Marshall, McClure, and
Celia Clinton Elementary Schools, 2003-present
Pre-Health Professions Advisor, 2009-present
Judge for various local and regional science fairs, 2003-present
Safety Committee, ORU, 2003-present
Oklahoma NSF EPSCoR Women in Science Conference, Tulsa, Oklahoma 2014
Green Committee, ORU, 2012-2014
Recruitment Committee, COSE, ORU
Participant in Tulsa Section of the American Chemical Society Science Lab Chemical
Inventory/Chemical Safety Program, Olympiad exam co-facilitator, various
Advisor to Iota Sigma Pi National Society for Women in Chemistry, 2005-present
Student/Faculty Relations Committee Member, ORU, 2010-present
Regional Science and Engineering Fair judge, Physical Sciences, Tulsa, Oklahoma, 2007
ORUEF National Competition Science Fair judge, 2007, 2006
Volunteer and Assistant Supervisor, Rhema Bible Church Bookstore, 1998-October,
2007