

## **Elmer J. Gentry, Ph.D.**

egentry@csu.edu

**Education** B.S. (Chemistry) Missouri Western State College, May 1993  
M.S. (Medicinal Chemistry) University of Kansas, December 1996  
Ph. D. (Medicinal Chemistry) University of Kansas, September 1999  
Dissertation Title: Investigation of Mixed Anhydrides of Boric and  
Carboxylic Acids as Selective Acylation Reagents

**Professional Experience** **Associate Professor of Pharmaceutical Sciences**, Chicago State University, College of Pharmacy, Chicago, IL (tenured)  
August 2007-Present

**Associate Dean for Pharmacy Academic Affairs**, Chicago State University, College of Pharmacy, Chicago, IL  
September 2011-August 2016

*Interim Associate Dean for Academic Affairs*, Chicago State University, College of Pharmacy, Chicago, IL  
February 2011-September 2011

**Chair of Pharmaceutical Sciences**, Chicago State University, College of Pharmacy, Chicago, IL  
August 2007-September 2011

**Associate Professor of Pharmaceutical Sciences**, Midwestern University, College of Pharmacy-Glendale, Glendale, AZ (tenured)  
July 2003-August 2007

**Assistant Professor of Pharmaceutical Sciences**, Midwestern University, College of Pharmacy-Glendale, Glendale, AZ  
July 1999-July 2003

**Lecturer**, American University of Integrative Medicine, Glendale, AZ  
Lectures on pharmacology of autonomic nervous system, cardiovascular agents, and antibiotics  
1999-2000

**Graduate Research Assistant**, University of Kansas, Lawrence, KS  
Department of Medicinal Chemistry, Dr. Lester Mitscher, advisor  
Investigation of organic methodology, total and partial synthesis of natural products, combinatorial chemistry, and biological testing of compounds.  
1993-1999

**Graduate Teaching Assistant**, University of Kansas, Lawrence, KS  
Instruction and supervision of Medicinal Biochemistry Laboratory.  
1997

**Undergraduate Instructor**, Missouri Western State College, St. Joseph, MO.  
Instruction and supervision of introductory chemistry laboratory.  
1993

- Publications** Puglisi, M.P., Johnson, C.L., Vellurattil, R.P., Wilcox, M., Slonek, J.E., Mukherjee, K., Gentry, E.J., Mentor Perceptions of the Value of a Fourth Year Research Project for Doctor of Pharmacy Students. *Accepted for Publication*.
- Blake, E., Friesner, D., Gentry, E.J., Gettig, J.P., Hajjar, E., Kline, J.M., Comparing Pharmacy Practice Faculty Perceptions of First-Year Post-Graduate Residency (PGY1) Selection Criteria To Those Reported By PGY1 Residency Directors. *Currents in Pharmacy Teaching & Learning*, **2015**, *7*, 20–28.
- Tafreshi, M.J., Zagnoni, L.G., and Gentry, E.J. Combination of Clopidogrel and Statins: A Hypothetical Interaction or Therapeutic Dilemma? *Pharmacotherapy*, **2006**, *26*(3), 388-94.
- Gentry, E.J., Telikepalli, H., Srinivas, P., and Mitscher, L.A. Tetraacyldiborates: Selective and Efficient Acylation Reagents Suitable for Multiple Parallel Synthetic Applications. *Combinatorial Chem. & High Throughput Screening*, **2003**, *6*, 139-145.
- Fisher, E., Gentry, E.J. Schizophrenia, Part II: Treatment. <http://www.inetce.org>, Volume 6 #5, September **2002**.
- Fecik, R.A., Frank, K.E., Gentry, E.J., Mitscher, L.A., and Shibata, M. Use of Combinatorial and Multiple Parallel Synthesis Methodologies for the Development of Anti-infective Natural Products. *Pure Appl. Chem.*, **1999**, *71*, 559-564.
- Gentry, E.J., Pillai, S.P., Mitscher, L.A., and Shankel, D. Multiple Drug Resistance. *Med. Res. Rev.*, **1999**, *19*, 477-496.
- Fecik, R.A., Frank, K.E., Gentry, E.J., Menon, S.R., Mitscher, L.A., and Telikepalli, H. The Search for Orally Active Medications Through Combinatorial Chemistry. *Med. Res. Rev.*, **1998**, *18*, 149-185.

Frank, K.E., Devasthale, P.V., Gentry, E.J., Ravikumar, V.T., Keschavarz-Shokri, A., Mitscher, L.A., Nilios, A., Baranowski, J., Shen, L., Shawar, R. and Baker, W.R., A Simple, Inexpensive Apparatus for Performance of Preparative Scale Solution Phase Multiple Parallel Synthesis of Drug Analogs. II. Biological Evaluation of a Retrospective Library of Quinolone Antiinfective Agents. *Combinatorial Chem. & High Throughput Screening*, **1998**, *1*, 89-100.

Gentry, E.J., Jampani, H.B., Keshavarz-Shokri, A., Morton, M.D., VanderVelde, D., Telikeypalli, H., Mitscher, L.A., Shawar, R., Humble, D., and Baker, W.R., Antitubercular Natural Products: Berberine From the Roots of Commercial *Hydrastis canadensis* Powder. Isolation of Inactive 8-Oxotetrahydrothalifendine, Canadine,  $\beta$ -Hydrastine, and Two New Quinic Acid Esters, Hycandinic acid esters -1 and -2. *J. Natural Prod.*, **1998**, *61*, 1187-1193.

### Book

#### Chapters

Gentry, E.J., Foye's Principle's of Medicinal Chemistry, Chapter 33: Antibiotics and Antimicrobial Agents, 7th Ed., 2012.

Mitscher, L.A., Lemke, T.L., Gentry, E.J., Foye's Principles of Medicinal Chemistry, Chapter 38: Antibiotics and Antimicrobial Agents, 6<sup>th</sup> Ed., 2008.

### Short Courses

#### Presented

Gentry, E.J., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, University of Hawaii-Hilo, Hilo, HI (May 2011).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, New Orleans, LA (May 2010).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Chicago, IL (June 2009).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Dallas, TX (June 2009).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Indianapolis, IN (May 2009).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Palm Springs, CA (June 2008).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Indianapolis, IN (May 2008).

Gentry, E.J., Fisher, E., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Chicago, IL (May 2008).

Gentry, E.J., Fisher, E., Making Undergraduate Science Courses More Applicable to Future Health Care Professionals. Invited Course Director, National Science Foundation Chautauqua Short Course, Seattle, WA (July 2007).

Gentry, E.J., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Indianapolis, IN (May 2007).

Gentry, E.J., Fisher, E., Making Undergraduate Science Courses More Applicable to Future Health Care Professionals. Invited Course Director, National Science Foundation Chautauqua Short Course, Glendale, AZ (January 2007).

Gentry, E.J., Fisher, E., Making Undergraduate Science Courses More Applicable to Future Health Care Professionals. Invited Course Director, National Science Foundation Chautauqua Short Course, Seattle, WA (July 2006).

Gentry, E.J., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Indianapolis, IN (May 2006).

Gentry, E.J., Review Course for the North American Pharmacist Licensure Examination. Invited Speaker, Morris Cody and Associates, Chicago, IL (May 2006).

Gentry, E.J., Fisher, E., Bridging the Gap Between Undergraduate Science and Health Professions: Application of General and Organic Chemistry to Medicinal and Pharmaceutical Chemistry. Invited Course Director, National Science Foundation Chautauqua Short Course, Seattle, WA (July 2005).

Gentry, E.J., Fisher, E., Bridging the Gap Between Undergraduate Science and Health Professions: Application of General and Organic Chemistry to Medicinal and Pharmaceutical Chemistry. Invited Course Director, National Science Foundation Chautauqua Short Course, Memphis, TN (July 2004).

Gentry, E.J., Fisher, E., Review Course for the Foreign Pharmacist Equivalency Exam. Invited Speaker, Morris Cody and Associates, San Mateo, CA (November 2003).

Gentry, E.J., Fisher, E., Bridging the Gap Between Undergraduate Science and Health Professions: Application of General and Organic Chemistry to Medicinal and Pharmaceutical Chemistry. Invited Course Director, National Science Foundation Chautauqua Short Course, Memphis, TN (July 2003).

Gentry, E.J., Fisher, E., Bridging the Gap Between Undergraduate Science and Health Professions: Application of General and Organic Chemistry to Medicinal and Pharmaceutical Chemistry. Invited Course Director, National Science Foundation Chautauqua Short Course, Memphis, TN (July 2002).

### **Presentations and Posters**

Gentry, E.J., Understanding and Implementing Active Learning Activities to Improve Student Learning, Invited University Faculty Retreat Lecture, Marshall B. Ketchum University: Fullerton, CA (2018)

Gentry, E.J., Techniques to Enhance Student Engagement and Learning, Invited Faculty Development Lecture, Marshall B. Ketchum College of Pharmacy: Fullerton, CA (2017)

Khan, A., Riley, A., Gentry, E.J., Evaluation of Pre and Postgraduate Pharmacy Training Programs, Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting: Anaheim, CA (2016).

Puglisi, M.P., Johnson, C.L., Vellurattil, R.P., Wilcox, M., Slonek, J., Mukherjee, K., Gentry, E.J., Mentor Perception of Value of a Fourth Year Research Project for Doctor of Pharmacy Students, Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting: National Harbor, MD (2015).

Gettig, J.P., Blake, E., Friesner, D., Hajjar, E., Gentry, E.J., Kline, J.M., Qualitative Analysis of Residency Directors' and Pharmacy Faculty Members' Interview Responses Regarding Residency Candidate Selection Criteria, Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting: Grapevine, TX (2014).

Gentry, E.J., Kline, J.M., Blake, E., Friesner, D., Gettig, J.P., Hajjar, E., Comparing Pharmacy Residency Program Candidate Selection Criteria with Colleges of Pharmacy Student Residency Preparation Mentoring Strategies, Podium Presentation, American Association of Colleges of Pharmacy Annual Meeting: Chicago, IL (2013).

Vellurattil R.P., Gentry E.J., Johnson C., Hardy Y., Puglisi MP., Slonek J., Innovation in Pharmacy Education: Conduct of Research as a Graduation Requirement, Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting: Chicago, IL (2013).

Mobley Smith, M., Gentry, E.J., Nobles-Knight, D., Masinde, L., Building Student Pharmacists' Practice Skills for IPPE Success: USP Chapter 797 Certification, Poster Presentation, American Association of Colleges of Pharmacy Annual Meeting, Seattle, WA (2010).

Gentry, E.J. From Concept To Market: Discovery, Development, and Approval of Drugs. Invited Speaker, Cardiovascular Society of Advanced Practice Providers, Scottsdale, AZ (2003).

Gentry, E.J. Advances in the Treatment of Antibiotic Resistance. Invited Speaker, University Learning Systems (Live Audience Pharmacy Continuing Education Provider), Las Vegas, NV (2002).

Gentry, E.J. Development of a Novel Reaction for Application to Combinatorial Chemistry. Invited Lecture, Grand Canyon University, College of Science and Allied Health: Undergraduate Seminar Series. (2000).

Gentry, E.J. Investigation of Mixed Anhydrides of Boric and Carboxylic Acids as Selective Acylation Reagents. Doctoral Dissertation Defense, University of Kansas (1999).

Gentry, E.J. and Mitscher, L.A. Investigation of Boroacylates as Selective Acylating Reagents. Oral Award Presentation, Pharmacy Graduate Student Honors Symposium, University of Kansas (1999).

Gentry, E.J., Menon, S.R., and Mitscher, L.A. Investigation of a Selective Acylation Procedure. Oral Presentation, Medicinal Chemistry Meeting-in-Miniature, Chicago, IL (1998).

Gentry, E.J. and Mitscher L.A. Investigation of Selective Acylations of Tetracyclines. Poster Presentation, Medicinal Chemistry Meeting-in-Miniature, Minneapolis, MN (1997).

Gentry, E.J. The Dimroth Regent: A New Look at an Old Reaction. Oral Presentation, University of Kansas Medicinal Chemistry Seminar Series, Lawrence, KS (1995)

Gentry, E.J. Structure Activity Relationships of Substance P Antagonists, Oral Presentation, University of Kansas Medicinal Chemistry Seminar Series, Lawrence, KS (1995)

**Grants****Submitted**

Jones, L., Gentry, E.J., Nkansoh, A., Puglisi-Weening, M.P., Abourashed, E., Rivas, F.M., MRI-R2: Acquisition of a 400MHz NMR Spectrometer at Chicago State University, National Sciences Foundation, \$363, 815 requested and funded 2010.

Synthesis and Evaluation of Tetracycline Analogs. Center for the Advancement of Pharmacy Practice, Glendale, AZ \$2000 requested and funded 2003.

Synthesis and Evaluation of a Series of Tetracycline Analogs: Examination of Potential Changes to Restore Activity Against Tetracycline-Resistant Organisms. American Association of Colleges of Pharmacy, New Investigator Program 2003. Amount Requested: \$10,000 (not funded).

Synthesis and Evaluation of a Series of Tetracycline Analogs: Examination of Potential Changes to Restore Activity Against Resistant Organisms. American Association of Colleges of Pharmacy, New Investigator Program 2002. Amount Requested: \$10,000 (not funded).

Synthesis and Evaluation of a Series of Tetracycline Analogs: Examination of Potential Changes to Restore Activity Against Efflux-Resistant Organisms. American Association of Colleges of Pharmacy, New Investigator Program 2001. Amount Requested: \$10,000 (not funded).

**Professional****Membership**

American Chemical Society, 1990-Present  
 Division of Medicinal Chemistry, 1996-Present  
 Division of Organic Chemistry, 1997-Present

American Association of Colleges of Pharmacy, 1999-Present  
 Chemistry Section, 1999-Present  
 Chemistry Section Mentoring Program 1999-Present

American Association for the Advancement of Science, 1999-2005

American Society of Microbiology, 2004-2006

Phi Delta Chi Professional Pharmacy Fraternity  
 Beta Sigma Chapter, 2000-Present

American Pharmacists Association, Associate Member 2015-Present

**Honors and Awards**

Academic Leadership Fellow, American Association of Colleges of Pharmacy, 2012-2013

MWU-CPG PS-1 Teacher of the Year, 2007

MWU-CPG PS-2 Teacher of the Year, 2007

Finalist for MWU-CPG PS-1 Teacher of the Year  
Midwestern University, 2005, 2006.

Finalist for MWU-CPG PS-2 Teacher of the Year  
Midwestern University, 2006.

Phi Lambda Sigma (Pharmacy Leadership Society)  
Midwestern University, Inducted 2002

Phi Delta Chi Professional Pharmacy Fraternity  
National Advisor of the Year, Runner-Up, 2001

Pharmacy Graduate Student Honors Symposium Award  
University of Kansas, 1999

American Foundation for Pharmaceutical Education, Pre-doctoral Fellow  
University of Kansas, 1997-1999

Goetsch Pharmacy Scholarship  
University of Kansas, 1997, 1998

Edgar C. Little Outstanding Chemistry Graduate  
Missouri Western State College, 1993

**Service Activities:  
Committees**

Chicago State University Committees  
University Graduate Council 2007-2016  
Provost's Council 2012-2016  
President's Executive Committee 2012-2016  
Numerous Search and Procurement Committees

Chicago State University College of Pharmacy Committees  
Dean's Executive Committee, 2007-2016  
Admissions Committee, 2007-2010, 2017-Present  
Academic Standing Committee, 2007-Present



Academic Standing Committee Chair, 2007-2016  
 Curriculum Committee, 2007-2016  
 Curriculum Committee Chair, 2007-2011  
 Self-Study Committee, 2007-2017  
 Faculty and Staff Development Committee, 2011-2016  
 Pharmaceutical Sciences Department Personnel Committee, 2016-Present  
*Ad hoc* NAPLEX Preparation Working Group, 2016-Present

#### Midwestern University (MWU) Committees

Financial Aid Committee, 2000-2001  
 Radiation Safety Committee, 2000-2004  
 Committee on Committees, 2002-2004, 2006  
 Faculty Affairs Committee, 2004-2006  
*Ad hoc* Rank and Tenure Committee, 2004-2005  
 Faculty Handbook Committee, 2006

#### College of Pharmacy-Glendale (MWU-CPG) Committees

Awards Committee, 1999-2005  
 Student Promotion and Graduation Committee, 2000-2007  
 Student Promotion and Graduation Committee Chair, 2006-2007  
 Admissions Committee, 2000-2006  
 Admissions Committee Chair, 2002-2004  
 Executive Committee (Pharm. Sci. Representative), 2001  
*Ad hoc* Communication and Structure Committee, 2001-2002  
 Rank and Tenure Committee, 2003-2007  
 Rank and Tenure Committee Chair, 2006-2007  
 Associate Dean Search Committee, 2005

#### MWU-CPG Pharmaceutical Sciences Department Committees

*Ad hoc* Research Committee, 1999-2007  
 Search Committee, Pharmacology, 2000  
 Search Committee, Kinetics, 2001  
 Search Committee, Department Chair, 2001  
 Search Committee, Department Chair, 2002  
 Search Committee, Pharmacology, 2002  
 Search Committee, Medicinal Chemistry, 2002  
 Search Committee, Department Chair, 2005  
 Search Committee, Medicinal Chemistry, 2006

#### **Service Activities:**

#### **Student Organizations**

Phi Delta Chi Professional Pharmacy Fraternity  
 Gamma Kappa Chapter Advisor, Founding of Chapter, 2009-2013, 2016-Present

Petitioned national fraternity for membership and established the chapter along with all current professional, service, and fund-raising activities.

Beta Sigma Chapter Advisor, Founding of Chapter, 2000-2007

Petitioned national fraternity for membership and established the chapter along with all current professional, service, and fund-raising activities.

Regional Director of Collegiate Affairs, Western Region, 2001-2003

Responsible for guidance and evaluation of nine chapters in eleven western states

Midwestern University, College of Pharmacy-Glendale Class of 2002 Advisor

### **External**

Accreditation Council for Pharmacy Education

Trained Site Evaluator for Professional Program Accreditation, 2010-Present

American Association of Colleges of Pharmacy (Chemistry Section)

Chemistry Section Immediate Past Chair, 2007

Chemistry Section Chair, 2006

Chemistry Section Chair-elect, 2005

Chemistry Section Programming Committee Chair, 2005

Chemistry Section New Investigator Grant Reviewer, 2005-2007

Chemistry Section Membership Committee member, 2000-2002

Chemistry Section Membership Committee Chair, 2002-2003

Chemistry Section Mentoring Program, 1999-Present

Frankfort Girls Softball Association

President 2015-Present

Vice President 2014-2015

Commissioner 2012-2014

Reviewer for Currents in Pharmacy Teaching and Learning, 2009-Present

Reviewer for Journal of Herbal Pharmacotherapy, 1999-2004

Participant in Levaquin Pharmacy Consultants, 2001

Judge for Highland Lakes Elementary School Science Fair, 2000, 2003

Grand Awards Judge, Intel International Science and Engineering Fair, 2005

American Society of Pharmacognosy

Local activities committee for International Congress of Natural Products Research, AZ, 2004