

Curriculum Vitae - Biochemistry

Amy L. Stockert, Ph.D.

Ohio Northern University
Raabe College of Pharmacy
525 South Main Street, Ada, Ohio 45810
(419)772-3953 a-stockert@onu.edu

Education

Ph.D., The Ohio State University (August 2004)

M.S., The Ohio State University (March 2002)

Major in Biochemistry with focus in enzymology of metalloenzymes

B.S., Indiana-Purdue University Fort Wayne (May 1999)

Major in chemistry

Research Experience

Visiting Associate Professor, The Ohio State University (Jan 2016-Aug 2016).

Associate Professor of Biochemistry, Ohio Northern University (2012 – Present).

Assistant Professor of Biochemistry, Ohio Northern University (2006 - 2012).

“Effects of phytochemicals found in cinnamon on lipid and carbohydrate metabolism.”

“Epigenetic effects of cinnamon on adipose and breast cancer cells.”

“Design and testing of new antibiotic targets for gram positive bacteria”

- Received both internal and external grant funding for student research support.
- Participated in Campus Campaign for student recruitment by featuring current research student and project in the Chronicle for Higher Education.
- Mentored AFPE funded student research project.
- Mentored 60+ independent study students and research students working on multiple projects with results published in research articles, and presentations.
- Developed individual research project to maintain an ongoing active lab.
- Participated in numerous collaborative projects within the department.
- Designed multiple research projects for undergraduate lab students.
- Developed numerous proposals for new and established investigator awards from both National and Local agencies.
- Managed research projects for over 40 research students.
- Developed research project for local high school student who presented at the International level.
- Guide research students in preparation of poster presentations for Regional Research Colloquium
- Sponsored student involvement in research conferences in Chicago, IL, Washington, D.C., and Orlando, FL

Post-Doctoral Researcher, The Ohio State University (2004 - 2005).

“Mechanism and regulation of RNA chain elongation”

- Quickly became familiar with extensive past and present research. Re-oriented several techniques utilized in a new field.
- Developed previously non-existing spectroscopic methods for study of NTP addition in complicated multi-subunit enzyme system, reducing the necessity of radioactivity.
- Rapidly learned new techniques with multiple applications.
- Managed and designed multiple research projects simultaneously.

Graduate Research Assistant, The Ohio State University (2003 - 2004).

“Spectroscopic and kinetic studies of bovine xanthine oxidase and *Rhodobactor capsulatus* xanthine dehydrogenase”

- Quickly mastered new instruments and software. Organized personal data.
- Managed multiple research projects, coursework, and lab duties. Developed lab protocols manual.
- Instructed and trained rotation and visiting students.
- Acted as the graduate program student president.
- Utilized persuasive writing and presentation skills in seminars, meetings and international conferences.

Training Fellow, Chemistry-Biology Interface Training Program, The Ohio State University (2001 - 2002; 2003 - 2004).

Undergraduate Research Assistant, Indiana University School of Medicine (1997 - 1999).

“Growth capabilities of CLP-8 yeast mutants” and “S31 Ribosomal Subunit Studies”

- Learned techniques of physical mapping to chromosome, cloning, and other basic molecular biology techniques.
- Cloned and tagged the UB1 3 gene. Started expression trials

Teaching Experience

Associate Professor of Biochemistry, Ohio Northern University (2012 – Present).

Assistant Professor of Biochemistry, Ohio Northern University (2006 - 2012).

- Completed numerous teaching workshops and seminars.
- Designed and delivered new elective for nutrition with emphasis on patient care.
- Developed unique exam assessment method and measurements of application ability in students.
- Designed, developed and implemented the biosafety training program for the college and university. Included Web Ct course for all safety training materials and storage.
- Re-developed biochemistry curriculum for an online version allowing increased enrollment during summer sessions.
- Mentored over 60 research students with results that were included in grant proposals, publications, presentations at the local, state, national level and international level.
- Re-designed new upper level course in the area of biochemistry for medical fields.
- Received funding for longitudinal case development for integration into biochemistry course.
- Developed intensive course packets with conceptual challenges imbedded for multiple topics.
- Coordinated team taught biochemistry course.
- Developed conceptual exams both of multiple choice and essay format to test the students' ability to apply the instructed material to a situation developing in the medical or pharmaceutical field.
- Developed and directed multiple review sessions including review packets, group tasks for review, and review presentations.
- Attended Cultural Competency training workshop and began design of curriculum integration for biochemical course.
- Directed several research students in achieving their own research goals. Monitored their development of poster presentations for Undergraduate Research Colloquium.
- Designed and utilized class demonstrations for various biochemical processes. Organized and maintained course page with supplemental links, review questions, homework questions, and animations.
- Mediated a discussion of “Fostering Professionalism in Students” at the American Association of the Colleges of Pharmacy
- Mentored students for research presentation at the National Level.
- Developed and delivered multiple guest lectures on topics of nutrition and protein structure.

Teaching Assignments

- Courses developed
 - Biochemistry I and II
 - Online Biochemistry I and II
 - Independent Study – Biochemistry
 - Research – Biochemistry
 - Basic Nutrition
- Lectures delivered outside of major courses
 - Nutrition during pregnancy – Developmental Anatomy Guest Lecture
 - Protein Structure and Drug Design – Drug Design Guest Lecture
 - Methods in gene cloning – Pharmaceutical Techniques Lab
 - Physics of Motion – Applied Physics of Pharmacy Lecture
 - Physics of Magnetism – Applied Physics of Pharmacy Lecture
 - Physics of Fluids and Gases – Applied Physics of Pharmacy Lecture

Visiting Assistant Professor, Ohio Northern University (2005 - 2006).

- Instructed students from diverse background and majors in introductory biology
- Instructed advanced pharmacy students in bioscience lab including enzymology, microbiology, and molecular biology.
- Acted as course coordinator overseeing course content, writing exams, organizing review sessions, and developing homework assignments and handouts for team taught course
- Met with students individually to direct group scientific presentations
- Managed materials and organization for special needs students
- Tutored students
- Directed classroom discussion of current scientific topics
- Organized effective course web site providing additional materials, references, and web links
- Advised biology majors on course selection and career development
- Acted as a Judge for District Science Day
- Served as an interviewer for Distinguished Achievement Scholarship Day

Private Tutor (1996 - 1999).

- Provided students with additional instruction on material covered in the classroom
- Advised students on alternate study methods
- Aided students in preparation for exams
- Researched additional materials for learning

Teacher, St. Peter's Church (2003).

- Organized lesson plans
- Designed creative art projects
- Developed projects to encourage family involvement

Senior Student, The Ohio State University (2002 - 2004).

- Instructed and guided rotation on the techniques of the lab
- Worked exclusively with visiting students on international research projects
- Aided in experiment production for new students
- Designed research projects for visiting and rotation students

Grader, The Ohio State University College of Medicine (2002 - 2004).

- Worked as a grader for Problem-based learning Medical school program
- Assisted in grading exams for graduate level enzymology classes
- Graded exams for general biochemistry course

Specific Skills

Computer : PC, Macintosh, Sigma Plot, Excel, ChemDraw, Word, Hewlett Packard diode array software, OLIS stopped-flow software, Applied Photo Physics Pro-K, Bio-Rad Spectrophotometer software, Luminis Platform, Akta purification software, Chemstation, Graph Pad Prism

Laboratory: Protein purification, chromatography, absorbance spectroscopy, steady state and pre-steady state kinetics, anaerobic technique, SDS-PAGE, Western Blotting, sterile technique, plate reproduction, culture maintenance, media preparation, bacterial and yeast transformation, RNA isolation, cDNA cloning, restriction enzyme digestion, expression, plate assays, redox assays, Kirby-Bauer, minimum inhibitory concentration determination, cell culture, Applied Biosystems Real-Time PCR, BioRad Real Time PCR

Communications: Lecture and Lab presentations, Poster and oral presentations, experience guiding and instructing rotation and visiting students, experience managing lab and lab student projects.

Instrumentation Experience: Stopped-flow, UV/Vis Spectroscopy, Gel Electrophoresis, Anaerobic technique, EPR, PCR, R. Raman, IR, HPLC, GC, FPLC, NMR, thermo cycler, ultra centrifugation, Real-time PCR

Published Intellectual Contributions

- Young, M., Wells, E., Dinsmore, O., Marchiano, J., Mahfouz, T., Stockert, A. 2017. Kinetic evaluation of the reaction of glutamate racemase with computationally derived inhibitors provides validation of a successful pharmacophore model for a new line of antibiotic therapy. *FASEB J.* 939.16
- Brennemen, M., Mahfouz, T. M., Stockert, A. L. (2017). Cooperative binding of cinnamon polyphenols as activators of Sirtuin-1 protein in the insulin signaling pathway. (ed., vol. 31, pp. 761.25). *FASAB Journal*.
- Wells, E., Dinsmore, O., Aulthouse, A. L., Kinder, D. H., Marchiano, J., Stockert, A. L. (2017). Effects of 3D culture and aqueous cinnamon extract on 3T3-L1 adipogenesis. (1st ed., vol. 31, pp. 944.3). *FASAB Journal*.
- Bova, K., Aulthouse, A. L., Stockert, A. L. (2017). FoxO1 localization changes in Cinnamomum cassia treated 3T3-L1 pre-adipocytes. (1st ed., vol. 31, pp. 944.5). *FASAB Journal*.
- Bulko, R., Aljahani, R., Aulthouse, A. L., Kinder, D. H., Stockert, A. L. (2017). MCF-7 Morphological changes upon treatment with aqueous cinnamon extract. (1st ed., vol. 31, pp. 595.13). *FASAB Journal*.
- Hill, M., Bulko, R., Aulthouse, A. L., Kinder, D. H., Stockert, A. L. (2017). Methylation status of the gene encoding Akt2 in cinnamon extract treated MCF-7 cells. (1st ed., vol. 31, pp. 595.12). *FASAB Journal*.
- Stockert, A. L., Aulthouse, A. L., Kinder, D. H., Newstead, S., Freeh, E. (2016). Effects of aqueous cinnamon extract on 3T3-L1 cell size, lipid volume and lipase activity. (1st ed., vol. 30, pp. 851.14). *FASAB Journal*.
- Stockert, A. L., Dinsmore, O., Wells, E. (2016). Effects of thymol on 3T3-L1 differentiation and lipase activity. (1st ed., vol. 30, pp. 851.15). *FASAB Journal*.
- Stockert, A., Kinder, D., Freeh, E., Newstead, S., Aulthouse, A. 2015. The effects of cinnamon extract on 3T3L1 pre-adipocyte differentiation and cell size. *FASEB J.* 885.16
- Dinsmore, O., Wells, E., Krall, D., Stockert, A., Mahfouz, T. 2015. Kinetic Studies examining the inhibitory potential of compounds selected using a computationally derived active site model of glutamate racemase from *S. Pneumoniae*. *FASEB J.* 721.30.
- Stockert, A., Kinder, D., Christ, M., Amend, K., Aulthouse, A. 2014. Improving the Efficacy of Cisplatin in Colon Cancer HT-29 Cells via Combination Therapy with Selenium. *J. Pharm and Thera.* 1-6.
- Kisor, D., Talbot, J., Stockert, A., Smith, A. 2013. Exploring a Laboratory Model of Pharmacogenetics as Applied to Clinical Decision Making. *Innovations in pharmacy.* 1-11.
- Stockert, A., Mahfouz, T., Petersen, B., Fakunmoju, O. 2013. Correlation of docking energies with spectroscopic kinetic assays of potential xanthine oxidase substrates. *J. Biophys. Chem.* 22-27.
- Hoehn, A.N. and Stockert, A.L. 2012. The effects of Cinnamomum Cassia on Blood Glucose Values are Greater than those of Dietary Changes Alone. *Nutr. Metab. Insights.* 77-83.
- Bright DR, Terrell SL, Rush MJ, Kroustos KR, Stockert AL, Swanson SC, DiPietro NA. 2012. Employee attitudes toward participation in a work site-based health and wellness clinic. *J. Pharm. Pract.* 530-6.
- Stockert, A., Amend, K., Stechschulte, M., Aulthouse, A., Kinder, D. 2011. Response of colon cancer cells to selenium and cis-platinum exposure. *FASEB J.* 913.7.
- Skidmore, K., Scherer, C., Stockert, A., Mahfouz, T. 2011. A ligand-based approach for enhancing the pharmacokinetic profile of highly charged antibacterial agents. *Med. Chem. Res.*
- Stockert, A. and Mahfouz, T. 2011. Superbugs: Current Trends and Emerging Therapies. *Antimicrobial Agents* (pp. 273-294) In *Tech: Croatia*.
- Schoenberger, E., Hazelet, E., Sanders, K., Hallman, L., Bright, D., Stockert, A. 2011. Role of non-nutritive sweeteners in obesity and diabetes. *PAW Review.* 18-20.
- Stockert, A., Fakunmoju, L., Mahfouz, T. 2010. An effective docking model for rapid screening of potential xanthine oxidase inhibitors. *FASEB J.* 469.9.
- Stockert, A.L., Stechschulte, M. 2010. Allopurinol to Febuxostat: How far have we come? *Clinical Medicine Insights: Therapeutics.* 927-945.
- Roecker, A., Stockert, A., Kisor D. F. 2010. Nelarabine in the Treatment of Refractory T-cell malignancies. *Clinical Medicine Insights: Oncology.* 133-141.
- Stockert, A. L., Mahfouz, T., Petersen, B., Fakunmoju, L., Patel, R. 2009. Orientation studies of novel xanthine oxidase inhibitors using Glide docking and spectroscopic kinetic assays. *FASEB J.* 527.8.
- Doonan, Christian J.; Stockert, Amy; Hille, Russ; George, Graham N. 2005. The nature of the catalytically labile oxygen at the active site of xanthine oxidase. *J. Am. Chem. Soc.* 127, 4518-4522.
- Hemann, C.F., Illich, P., Stockert, A.L., and Hille, R. Resonance Raman studies of xanthine oxidase: The reduced enzyme-product complex with violapterin. 2005. *J. Phys. Chem.B.* 109(7), 3023-3031.
- Choi, E., Stockert, A.L., Leimkuehler, S., and Hille, R. 2004. Studies on the mechanism of action of xanthine oxidase. *J. Inorg. Biochem.* 98: 841-848.
- Leimkuehler, S., Stockert, A.L., Igarashi, K., Nishino, T., and Hille, R. 2004. The role of active site residues in catalysis of *Rhodobacter capsulatus* xanthine dehydrogenase. *J. Biol. Chem.* (2004) 279 (39), 40437-40444.

Stockert, A.L., Shinde, S.S., Anderson, R.F. and Hille, R. 2002. The reaction mechanism of xanthine oxidase: evidence for two-electron chemistry rather than sequential one-electron steps. *J. Amer. Chem. Soc.* 124: 14554-5.

Conference Proceedings

- Sobotka, J.L.; Bright, D.R.; Rush, M.J.; Kroustos, K.R.; Stockert, A.L.; Kier, K.L.; Murphy, B.L.; DiPietro, N.A. "Design and Implementation of a Multidisciplinary, University-Based Disease State Management and Wellness Program." FIP, India, September 2011.
- Stockert, A.L.; Stechschulte, M.; Amend, K.L.; Aulthouse, A.L.; Kinder, D.H. "Response of colon cancer cells to selenium and cis-platinum exposure." ASBMB, Washington DC, May 2011.
- Hoehn A.N.; Stockert, A.L. "The effects of cinnamomum cassia on glucose uptake." Ohio Academy of Science, Westerville, OH, April 2011.
- Stockert, A.L.; Fakunmoju, O.; Mahfouz, T.M. "An effective docking model for rapid screening of potential xanthine oxidase inhibitors." ASBMB Anaheim, Anaheim, CA, May 2010.
- Stockert, A.L.; Petersen, B.; Mahfouz, T. M.; Fakunmoju, L.; Patel, R.; Hoffman, A.; Leimkuehler, S. "Orientation studies of novel xanthine oxidase inhibitors using." Experimental Biology, ASBMB, New Orleans, LA, 2009.

Presentations

- Wells, Emily, Dinsmore, Olivia, Aulthouse, Amy L., Kinder, David H., Marchiano, Joe, Stockert, Amy L., Experimental Biology, "Effects of 3D culture and aqueous cinnamon extract on 3T3-L1 Adipogenesis," Ohio Northern University. (2017). Peer-Reviewed/Refereed
- Bova, Kaitlin, Aulthouse, Amy L., Stockert, Amy L., Experimental Biology, "FoxO1 localization changes in Cinnamomum cassia treated 3T3-L1 pre-adipocytes," American Society of Biochemistry and Molecular Biology. (2017). Peer-Reviewed/Refereed
- Young, Micheal, Wells, Emily, Dinsmore, Olivia, Marchiano, Joe, Mahfouz, Tarek M., Stockert, Amy L., Experimental Biology, "Kinetic evaluation of the reaction of glutamate racemase with computationally derived inhibitors provides validation of a successful pharmacophore model for a new line of antibiotic therapy," American Society of Biochemistry and Molecular Biology. (2017). Peer-Reviewed/Refereed
- Bulko, Rachel, Aljehani, Rawan, Aulthouse, Amy L., Kinder, David H., Stockert, Amy L., Experimental Biology, "MCF-7 morphological changes upon treatment with aqueous cinnamon extract," Ohio Northern University. (2017). Peer-Reviewed/Refereed
- Hill, Matthew, Bulko, Rachel, Aulthouse, Amy L., Kinder, David H., Stockert, Amy L., Experimental Biology, "Methylation Status of the gene encoding Akt 2 in cinnamon extract treated MCF-7 cells," American Society of Biochemistry and Molecular Biology. (2017). Peer-Reviewed/Refereed
- Brennemen, Martin, Mahfouz, Tarek M., Stockert, Amy L., Sigma Xi Student Research Showcase, "Small Molecule Affinities for Sirt-1 Deacetylase Enzyme," Ohio Northern University. (2017).
- Stockert, Amy L., Raabe College of Pharmacy Research Seminar, "Metabolic Effects of Cinnamon," COP. (April 2017).
- Stockert, Amy L., Freeh, Ellen, Newstead, Sabrina, Kinder, David H., Aulthouse, Amy L., Experimental Biology, "Effects of aqueous cinnamon extract on 3T3-L1 cell size, lipid volume and lipase activity.," American Society of Biochemistry and Molecular Biology. (2016). Peer-Reviewed/Refereed
- Stockert, Amy L., Dinsmore, Olivia, Wells, Emily, Experimental Biology, "Effects of thymol on 3T3-L1 differentiation and lipase activity." American Society of Biochemistry and Molecular Biology. (2016). Peer-Reviewed/Refereed
- Bova, Kaitlin, Brennemen, Martin, Mahfouz, Tarek M. Stockert, Amy L., Midwest Enzyme Chemistry Conference, "Exploration of potential mechanisms of glucose lowering effects of Cinnamomum cassia extract in 3T3-L1 pre-adipocytes.," University of Chicago. (2016).
- Stockert, Amy L., Ohio State University Seminar, "Effects of aqueous cinnamon extracts on adipogenesis and lipolysis." Ohio State University Nutrition, Columbus, OH. (2016).
- Stockert, Amy L., Ohio State University Seminar, "The use of NUT-PAGE for separation of phosphorylated and non-phosphorylated proteins," OSU. (2016).
- O. Dinsmore, E. Wells, D. Krall, R. Hoq, T. Mahfouz, A. Stockert "The expression of *S. pneumoniae* glutamate racemase and activity assay studies to evaluate potential inhibitors designed based on active site modeling," Ohio Northern University Department of Chemistry and Biochemistry Research Student Poster Presentations, October 2014
- D. Krall, R. Hoq, A. Stockert, E. Wells, O. Dinsmore and T. Mahfouz "An active site model for the design of inhibitors of *S. pneumoniae* Glutamate Racemase," Midwest Enzyme Chemistry Conference, Northwestern University, September 2014
- Bouhall, S. and Stockert, A. "Streptococcus pneumoniae Crude Protein Assays of Glutamate Racemase Enzyme Inhibitors for Antimicrobial Therapeutics." Department of Chemistry, Ohio Northern University, September 2012.
- Sobotka, J.L.; Bright, D.R.; Rush, M.J.; Kroustos, K.R.; Stockert, A.L.; Kier, K.L.; Murphy, B.L.; DiPietro, N.A. "Design and Implementation of a Multidisciplinary, University-Based Disease State Management and Wellness Program." FIP, India, September 2011.
- Bright, D.R.; Rush, M.J.; Kroustos, K.R.; Terrell, S.L.; Swanson, C.C.; Stockert, A.L.; Kier, K.L.; Thompson, R.E.; Milks, M.M.; Murphy, B.L.; DiPietro, N.A. "Design and Implementation of a Multidisciplinary, University-Based Disease State Management and Wellness Program." Ohio Pharmacists Association, Columbus, OH, April 2011.

- Stockert, A.L.; Stechschulte, M.; Amend, K.L.; Aulthouse, A.L.; Kinder, D.H. "Response of colon cancer cells to selenium and cis-platinum exposure." ASBMB, Washington DC, May 2011.
- Bright, D.R.; Rush, M.J.; Kroustos, K.R.; Terrell, S.L.; Swanson, C.C.; Stockert, A.L.; Kier, K.L.; Thompson, R.E.; Milks, M.M.; Murphy, B.L.; DiPietro, N.A. "Design and Implementation of a Multidisciplinary, University-Based Disease State Management and Wellness Program." Ohio Pharmacists Association, Columbus, OH, April 2011.
- Hoehn A.N.; Stockert, A.L. "The effects of cinnamomum cassia on glucose uptake." Ohio Academy of Science, Westerville, OH, April 2011.
- Bright, D.R.; Rush, M.J.; Kroustos, K.R.; Terrell S.L.; Swanson, C.C.; Stockert, A.L.; Kier, K.L.; Thompson, R.E.; Milks, M.M.; Murphy, B.L.; DiPietro, N.A. "Preliminary Results from a University-Based Disease State Management Program Focused on Hypertension, Hyperlipidemia, and Diabetes." APHA Annual Meeting, Seattle, WA, March 2011. - Award winning
- Stockert, A.L.; Fakunmoju, O.; Mahfouz, T.M. "An effective docking model for rapid screening of potential xanthine oxidase inhibitors." ASBMB Anaheim, Anaheim, CA, May 2010.
- Amend, K.L.; Aulthouse, A.L.; Kinder, D.H.; Stockert, A.L. "Response of colon cancer cells to selenium and cis-platinum exposure." Ohio Academy of Science Annual Meeting, Ada, OH, April 2010.
- Stockert, A.L.; Aulthouse, A.L.; Kinder, D.H. "Effect of selenium on the efficacy of cis-platinum on the HT-29 colon tumor cell line." American Institute for Cancer Research, Washington DC, November 2009.
- Stockert, A.L.; Petersen, B.; Mahfouz, T. M.; Fakunmoju, L.; Patel, R.; Hoffman, A.; Leimkuehler, S. "Orientation studies of novel xanthine oxidase inhibitors using." Experimental Biology, ASBMB, New Orleans, LA, 2009.
- Mahfouz, T.M.; Scherer, C.; Stockert, A.L.; Krall, D. "Computational Drug Design Targeting the Enzyme Glutamate Racemase." Midwest Enzymes Conference, Chicago, IL, 2008.
- Stockert, A.L.; Mahfouz, T.M.; Fakunmoju, L.; Petersen, B. "Correlation of Glide docking to kinetic assays of xanthine oxidase." Midwest Enzymes Conference, Chicago, IL, 2008.
- Stockert, A.L.; Mahfouz, T.M.; Leimkuehler, S.; Boss, J.; Gallaspie, J.; Hoffman, A.; Fakunmoju, L.; Popovich, D., "Effects of xanthine dehydrogenase argenic mutants on potential xanthine oxidase inhibitors." Sigma Xi Student Research Conference, Washington, DC, 2008.
- Stockert, A.L.; Mahfouz, T.M.; Petersen, B.; Hoffman, A.; Patel, R.; Fakunmoju, L. "Kinetic Analysis of Inhibitory compounds of xanthine oxidase selected based on computer docking results." Sigma Xi Student Research Conference, Washington, DC, November 2008.
- Stockert, A.L.; Mahfouz, T.M.; Petersen, B.; Patel, R.; Koch, D. "Spectroscopic analysis of the reaction of xanthine oxidase with Benzotriazole-1-methanol and Benzotriazole-1-acetonitrile." Sigma Xi Student Research Conference, Washington, DC, November 2008.
- Stockert, A.L.; Mahfouz, T.M.; Fakunmoju, L.; Hoffman, A.; Koch, D.; Patel, R. "Use of Glide Docking Energies to select xanthine oxidase and xanthine dehydrogenase inhibitors with favorable binding orientations." Sigma Xi Student Research Conference, Washington, DC, November 2008.
- Mahfouz, T.M.; Hoq, R.; Stockert, A.L.; Krall, D. "Role of the active site water molecules in inhibitor binding to S. pneumoniae glutamate racemase." Sigma Xi Student Research Conference, Washington, DC, November 2008.
- Mahfouz, T.M.; Krall, D.; Stockert, A.L. "A structural model for glutamate racemase from S. pneumonia." AACP annual meeting poster session, Chicago, IL, July 2008.
- Stockert, A.L.; Mahfouz, T.M.; Krall, D. "Computer Modeling of Glutamate Racemase." American Chemical Society Annual Meeting, Columbus, OH, June 2008.
- Stockert, A.L.; Patel, R.; Petersen, B.; Koch, D.; Mahfouz, T.M. "Spectroscopic Analysis of the reaction of xanthine oxidase with Benzotriazole-1-methanol and benzotriazole-1-acetonitrile." American Chemical Society Annual Meeting, Columbus, OH, June, 2008.
- Stockert, A.L.; Mahfouz, T.M.; Patel, R.; Petersen, B. "Correlation of Glide Docking Energies with Spectroscopic Kinetic Assays of xanthine Oxidase and Potential Inhibitors." American Chemical Society Annual Meeting, Columbus, OH, June 2008. - Oral Presentation, peer-reviewed
- Mahfouz, T.M.; Patel, R.; Petersen, B.; Krall, D.; Stockert, A.L. "Correlation of Docking Energies With Kinetic Assays of Xanthine Oxidase and potential inhibitors." Sigma Xi National Meeting and Student Research Conference, Orlando, FL, November 2007.
- Krall, D.; Stockert, A.L.; Mahfouz, T.M. "Computer modeling of glutamate racemase." Sigma Xi National Meeting and Student Research Conference, Orlando, FL, November 2007.
- Stockert, A.L. "Pausing Enzyme Action to Prevent Oxidative Damage." Sigma Xi Scientific Research Society, Ada, OH, December 2006. - Oral Presentation, invited
- Amend, K.L.; Aulthouse, A.L.; Kinder, D.H.; Stockert, A.L. "Response of colon cancer cells to selenium and cis-platinum exposure." Student Research Colloquium, Ada, OH, 2010.
- Stockert, A.L.; Mahfouz, T.M.; Patel, R.; Petersen, B.; Boss, J.; Gallaspie, J. "Spectroscopic analysis of the reaction of Benzotriazole-5-carboxylic acid with two forms of Rhodobacter capsulatus xanthine dehydrogenase; wild type and mutant form (R310M)." Summer Research Presentations, Ada, OH, June 2008.

- Stockert, A.L.; Antloga, S.; Mahfouz, T.M. "Streptococcus pneumonia whole cell assays of glutamate racemase." ONU Undergraduate Research Colloquium, Ada, OH, April 2008.
- Krall, D.; Stockert, A.L. "Kinetic Behavior of xanthine oxidase and Potential Active Site Inhibitors." ONU Undergraduate Research Colloquium, Ada, OH, April 2007.
- Lusardi, K.; Mahfouz, T.M.; Stockert, A.L. "Cloning and expression of E. coli glutamate racemase for design of antimicrobial therapeutics." ONU - Undergraduate Research Colloquium, Ada, OH, April 2007.
- Clough, A.; Hood, B.; Hille, R.; Stockert, A.L. "Cloning and expression of bovine xanthine oxidase and human xanthine dehydrogenase." ONU Undergraduate Research Colloquium, Ada, OH, April 2007.
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Midwest Metals Meeting, Ann Arbor, MI., June 2004.
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Ohio State Biochemistry Program Student Seminar, Columbus, OH, May 2004. - Oral presentation
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." CBI Training Symposium, Columbus, OH, May 2004.
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Ohio State Biochemistry Program Poster Session, Columbus, OH, May 2004.
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Ohio State Biochemistry Program Fall Symposium, Columbus, OH, October 2003. - Oral presentation - Award winning
- Stockert, A.L.; Keimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Department of Molecular and Cellular Biochemistry Retreat, Loudonville, OH, September 2003. - Award winning
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase," CBI Luncheon Seminar, Columbus, OH, August 2003. - Oral presentation
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Ilich, P. "Spectroscopic and Kinetic studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Gordon Research Conference for Molybdenum and Tungsten Enzymes, Meriden, NH, June 2003.
- Stockert, A.L.; Leimkuehler, S.; Hemann, C.; Anderson, R.; Nishino, T. "Spectroscopic and Kinetic Studies of bovine xanthine oxidase and Rhodobacter capsulatus xanthine dehydrogenase." Ohio State Biochemistry Program Poster Session, Columbus, OH, May 2003.
- Hemann, C.; Stockert, A.L.; Ilich, P.; Hille, R. "Resonance Raman and Kinetic Studies of xanthine oxidase." OSU Medical Center Research Day, Columbus, OH, April 2003.
- Hemann, C.; Stockert, A.L.; Ilich, P.; Hille, R. "Resonance Raman and Kinetic Studies of xanthine oxidase." Department of Molecular and Cellular Biochemistry Retreat, Columbus, OH, September 2002.
- Hemann, C.; Stockert, A.L.; Ilich, P.; Hille, R. "Resonance Raman and Kinetic Studies of xanthine oxidase." Ohio State University Protein Research Group Retreat, Loudonville, OH, May 2002. - Oral presentation
- Hemann, C.; Stockert, A.L.; Ilich, P.; Hille, R. "Resonance Raman and Kinetic Studies of xanthine oxidase." Ohio State Biochemistry Program Student Seminar, Columbus, OH, May 2002. - Oral presentation
- Hemann, C.; Stockert, A.L.; Ilich, P.; Hille, R. "Resonance Raman and Kinetic Studies of xanthine oxidase." Ohio State Biochemistry Program Poster Session, Columbus, OH, May 2002.
- Hemann, C.; Ilich, P.; Stockert, A.L.; Hille, R. "Resonance Rama Studies of the Charge Transfer Complex formed between xanthine oxidase and violapterin." Department of Molecular and Cellular Biochemistry Retreat, Mt. Sterling, OH, September 2001.
- Hemann, C.; Ilich, P.; Stockert, A.L.; Hille, R. "Resonance Raman Studies of Xanthine Oxidase." NIH-Chemistry Biology Interface Seminar, Columbus, OH, September 2001.
- Hemann, C.; Ilich, P.; Stockert, A.L.; Hille, R. "Resonance Raman studies of the charge transfer complex formed between xanthine oxidase and violapterin." Chemistry-Biology Interface Symposium, Columbus, OH, September 2001.
- Stockert, A.L.; Ilich, P.; Hille, R. "The Reaction of Xanthine Oxidase with Formamide." Ohio State Biochemistry Program Poster Session, Columbus, OH, May 2001.
- Stockert, A.L.; Ilich, P.; Hille, R. "The Reaction of Xanthine Oxidase with Formamide." NIH-CBI Poster Session, Columbus, OH, September 2000.
- Stockert, A.L.; Ilich, P.; Hille, R. "The Reaction of Xanthine Oxidase with Formamide." Inorganic Biochemistry Summer Workshop, Athens, GA, August 2000.

Grants and Sponsored Research

Funded

- Stockert, Amy L., "Expression and localization of metabolic regulator FoxO1 with treatment of cinnamon extracts on 3T3-L1 mature adipocytes." Ohio Northern University, \$5000.00 (2017)- Funded
- Stockert, Amy L., "Effects of cinnamon on key metabolic regulator FoxO1 in adipose cells," Ohio Northern University, \$6,500.00. (2016 - 2017). - Funded
- Stockert, A.L.; Wells, E. "Undergraduate Summer Research." Ohio Northern University (2015) – Funded
- Stockert, A. L.; Aljahani, R. "Undergraduate Summer Research." Ohio Northern University (2015) – Funded
- Stockert, A.L. and Supljeglav, B. IPSF Student (2015) – Funded
- Stockert, A.L. and DeBraga, H. International Exchange Student (2015) – Funded
- Stockert, A.L.; Mahfouz, T.M.; Fakunmoju, L. "Undergraduate Summer Research." Ohio Northern University, (2009). - Funded
- Faculty Development Grant, "Design of electronic cases tailored to fit current coursework." (2008). - Funded, \$1500.00
- Stockert, A.L.; Schmees, P. "AFPE - The reaction of Benzotriazole-1-acetonitrile with xanthine oxidase." \$5,000.00. (2008 - 2009). – Funded, \$5000.00
- Mahfouz, T.M.; Stockert, A.L. "Structure-based design of broad-spectrum glutamate racemase inhibitors." NIP, \$10,000.00. (December 2008 - December 2009). – Funded, \$10000.00
- Stockert, A.L.; Koch, D. "Undergraduate Summer Research." (2008). - Funded
- Stockert, A.L.; Fakunmoju, L. "Undergraduate Summer Research." (2008). – Funded
- Mahfouz, T.M.; Stockert, A.L.; Kinder, D.H. "Structure-based design of broad-spectrum glutamate racemase inhibitors." Bower, Bennet and Bennet, \$12,500.00. (June 2008 - September 2008). – Funded, \$12500.00
- Stockert, A.M.; Patel, R. "Undergraduate Student Summer Research." (2007). - Funded
- Stockert, A.M.; Peterson, B. "Undergraduate Student Summer Research." (2007). – Funded

Submitted

- Stockert, A., Aulthouse, A., Belury, M. Bennet Bower and Bower Endowed Research Chair. "The influence of cinnamon extract on key metabolic regulator FoxO1 in energetically active muscle and adipose cells." (2016)
- Stockert, A. Bennet Bower and Bower Endowed Research Chair. "The Effects of aqueous Cinnamonim cassia extracts on FoxO1 localization and expression." (2015).
- Stockert, A.L. and Aulthouse, A.L. Letter of Intent to California Table Grape Committee. "Effects of Grape Powder on adipocyte differentiation and cell signaling related to type 2 diabetes and insulin resistance." (2012).
- Stockert, A.L.; Hoehn, A. Sigma Xi Grants in Aid of Research. "The effects of *Cinnamomum cassia* supplementation in blood glucose levels of diabetics." (2012).
- Stockert, A. L. National Institutes of Health R03 – "Ask Yourself-what have you done for your health today?" (2012)
- Stockert, A.L., Wellpoint Foundation Signature Grant Application - "Ask Yourself what have you done for your health today?" (2011). - \$32900.00
- Mahfouz, T.M.; Stockert, A.L. American Heart Assoc. – "Antibacterial Compounds" (2011).
- Stockert, A.L.; Kier, K.; Shields, K. Wolterskuwer ACE curriculum Facts & Comparisons® Academic Partnership Program Advancement of Clinical Education (ACE) Curriculum Grant 2010 "Teaching and Assessing Longitudinally Integrated Nutritional and Dietary Supplement Concepts throughout the PharmD curriculum." (2010). - \$10000.00
- Stockert, A.L.; Hoehn, A. Sigma Xi Grants in Aid of Research. "The effects of *Cinnamomum cassia* supplementation in blood glucose levels of diabetics." (2010). - \$1000.00
- Stockert, A.L. Gustavus and Louise Pfeiffer Research Foundation "Nutrition Education Initiative." (2010). - \$8200.00
- Stockert, A.L.; Aulthouse, A.L.; Kinder, D.H. Bower, Bennet and Bennet Endowed Chair Research Proposal 2010 "Improving the efficacy of cis-platinum in HT-29 colon cancer cell line." (2010). - \$12500.00
- Stockert, A.L. California Table Grape Commission, "Potential benefits of grape consumption on heart health by examining the effects of grape powder on generation of tissue damaging reactive oxygen species." (2009). - \$30000.00
- Stockert, A. L.; Aulthouse, A.L.; Kinder, D.H. " Supplement effects of cisplatin." National Institutes of Health, (2009). - \$284000.00
- Stockert, A.L.; Mahfouz, T.M.; Antologa, S. "AFPE: The Antimicrobial potential of *S. pneumoniae* glutamate racemase inhibitors." (2009). - \$5000.00
- Stockert, A. L.; Mahfouz, T.M.; Hoffman, A. "AFPE: The effects of arginine mutants on inhibitory potential of benzotriazole-5-carboxylic acid." (2009). - \$5000.00
- Stockert, A.L.; Antloga, S. AFPE 2008- The antimicrobial potential of *S. pneumonia* glutamate racemase inhibitors." (2008). -\$5000.00
- Stockert, A.L.; Mahfouz, T.M. "BBB 2008 - Correlation of Docking Energies to potential xanthine oxidase inhibitors for ischemia-reperfusion treatment." (2008). - \$12000.00
- Stockert, A.L.; Crossgrove-Hart, J.S. "Letter of Intent 2008- The effects of grape powder extracts on Xanthine Oxidase for reduction of oxidative damage associated with heart attack." (2008). - \$30000.00

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Stockert, A.L.; Mahfouz, T.M. "NIHR21 2008- Xanthine Oxidase Inhibitors for Ischemia-Reperfusion." Sponsored by NIH - National Institutes of Health, (2008). - \$150000.00

Stockert, A.L.; Mahfouz, T.M. "NIHR03 2008- Xanthine Oxidase Inhibitors for Ischemia-Reperfusion." Sponsored by NIH - National Institutes of Health, (2008). - \$150000.00

Stockert, A.L.; Mahfouz, T.M. "NIP 2008 - Correlation of Docking Energies to potential xanthine oxidase inhibitors for ischemia-reperfusion treatment." (2008). - \$100000.00

Stockert, A.L.; Krall, D. "AFPE: Xanthine oxidase inhibitors for ischemia-reperfusion." (2007). - \$5000.00

Stockert, A.L. "Bower, Bennet and Bennet Endowed Chair Research Award - , " (2007). - \$12500.00

Stockert, A.L.; Crossgrove-Hart, J.S. "Letter of Intent 2007- Effects of Grape Powder Extracts on Xanthine Oxidase levels in healthy and hypertensive rat's hearts." (2007). - \$25000.00

Stockert, A.L.; Crossgrove-Hart, J.S.; Rorabaugh, B.R. "Letter of Intent 2007- The Effects of Grape Powder Extracts on Xanthine Oxidase for reduction of oxidative damage associated with heart attack." (2007). - \$75000.00

Mahfouz, T.M.; Stockert, A.L.; Kinder, D.H. "NIH R15 - Design of Glutamate Racemase Inhibitors." (2007).

Stockert, A.L.; Mahfouz, T.M. "NIP AACP - Xanthine Oxidase Inhibitors for Ischemia-Reperfusion." (2007).

Stockert, A.L.; Krall, D. "Sigma Xi Xanthine Oxidase Inhibitors for Ischemia-Reperfusion." (2007).

Crossgrove, J.; Stockert, A.L. "Letter of Intent: Grape Commission." (2006).

Stockert, A.L. "NHF - Xanthine Oxidase Inhibitors for Ischemia-Reperfusion." (2006).

Professional Activity**Elected Offices**

Board of Directors, Sigma Xi Research Society, 2014-current.-elected

Chair, American Chemical Society (ACS), Northwest Central Ohio Section, 2010 – 2011.-elected

Vice Chair, ACS Northwest Central Ohio Section, 2008, 2009.-elected

Vice President, American Chemical Society Student Affiliates, 1998.-elected

President, Sigma Xi Scientific Research Society Ohio Northern Chapter, 2008, 2009, 2011, 2012.-elected

Vice-President, Sigma Xi Scientific Research Society Ohio Northern Chapter, 2010.-elected

Committees for a state, national or international professional organizations

Committee on Awards, Sigma Xi Research Society, 2016-current.

Committee Member of the 2009 - 2010 Paul Dawson Biotechnology Award Selection Committee. American Association of Colleges of Pharmacy (2009).-nominated, accepted

Judge, Ohio Academy of Science. State Science Fair (2006 - Present).

Member of the ACS Legislative Action Network

Item Writer: National Association of Boards of Pharmacy exam writing (2009-present).-nominated, accepted

Reviewer for journals, books, manuscripts, and online courses.

Quality Matters Online Course Reviewer, June 2015-present.

Essentials of Medical Biochemistry with Clinical Cases. Textbook review, November 2012.

Voet, Voet, and Pratt. Fundamentals of Biochemistry 3e. Textbook review, October 2009.

Tansey. Introductory Biochemistry Text. Text proposal review, October 2010.

Voet, Voet, and Pratt. Fundamentals of Biochemistry 3e. Virtual focus group review of course materials and text supplements, 2011.

Reviewer, Biochemistry: A Conceptual Approach. Oxford. (2011).

Registered as a reviewer for the following:

Editorial Board Member, Basic, Applied Pharmacy and Pharmacology. (2017).

Editorial Board Member, Basic, Applied Pharmacy and Pharmacology. (2017).

Reviewer, Clinical Medicine Insights: Endocrinology and Diabetes. (2015-Present)

Reviewer, Clinical Medicine Insights: Oncology. (2015-Present)

Reviewer, Annual Research and Review in Biology. (2017)

Reviewer, Science Domain (2017)

Editorial Board Member, EC Pharmacology and Toxicology Journal. (2015-Present).

Reviewer, Nutrition and Metabolic Insights. (2012-present).

Reviewer, Biochemistry Insights. (2014-present).

Editorial Board Member, Austin Journal of Pharmacology and Therapeutics. (2013-present).

Reviewer, Computational Biology and Chemistry. (2009 - Present).

Reviewer, The Ohio Journal of Science. (2009 - Present).

Reviewer, Biochemistry 3rd edition Voet, Voet, and Pratt, Wiley. (2009 - Present).

Program coordinator or moderator for meetings/symposia, or patient education programs.

Session Chair/moderator, Midwest Enzyme Chemistry Conference. (2016)

Nutrition educator, ONU Healthwise. (2010 – 2013.)

Roundtable mediator, American Association of Colleges of Pharmacy Annual Meeting and Seminars, "Fostering Professionalism in Students." (2007).

Research colloquium coordinator, Sigma Xi Research Society Ohio Northern Chapter (2007, 2008).

Lead Instructor for CE BLS course and publication of CE

Continuing Ed. Publication, "A review of enzymology for pharmacists". (2007).

Continuing Ed. Course Delivery (Class size required 3 simultaneous courses), Lead Instructor, Basic Life Support for Healthcare Providers. (2010).

Awards, Honors, and Achievements

Mortar Board Favorite Professor Award. (2015).

Mortar Board Favorite Professor Award. (2012).

Professional Woman of the Year", National Association of Professional Women (2011 - 2012).

APhA-APPM Innovative Practice Report Merit Award, American Pharmacists Association (2011).

National Association of Professional Woman (2011).

Who's Who in America (2008, 2009, 2010, 2011).

Who's Who Among American Women. (2007, 2008, 2009, 2010, 2011).

Who's Who of World Class Professionals. (2010).

Mortar Board Favorite Professor Award. (2009).

Bonus Recognition of meritorious efforts in Pharmaceutical and Biomedical Sciences. (2008).

Mortar Board Favorite Professor Award. (2008).

Mortar Board Favorite Professor Award. (2007).

Honorary Brother, Phi Delta Chi Pharmacy Fraternity (2007).

Mentor for national student award - Rajvi Patel, Sigma Xi. (2007).

Mentor for national student award - Daniel Krall, Sigma Xi. (2007).

Sigma Xi Scientific Research Society Induction (2006).

Who's Who Among America's Teachers. (2006).

First degree black belt Tae Kwon Do, United Martial Arts Black Belt Association. (2005 - Present).

Student President, The Ohio State Biochemistry Program. (2003 - 2004).

Graduate Studies Committee, The Ohio State Biochemistry Program. (2003 - 2004).

NIH Chemistry-Biology Interface Training Program Fellow. (2003).

Department of Molecular and Cellular Biochemistry Annual Retreat 2nd Place Poster Winner. (2003).

The Ohio State Biochemistry Program Fall Symposium Grand Prize Seminar Presenter. (2003).

NIH Chemistry-Biology Interface Training Program Fellow. (2001).

National Honors Society. (1994 - Present).

Licensures and Certifications

ACLS Instructor, American Heart Association. (2009 - Present).

BLS Instructor. (2009 - Present).

ACLS Provider, American Heart Association. (2009 - Present).

BLS Provider. (2009 - Present).

AHA Course Instructor. (2009 - Present).

Biosafety Officer's Training. (2008, 2013)

American Red Cross CPR/AED Provider (2007 – 2009).

Membership

National Honors Society (1994 - Present)

American Association of College of Pharmacy, (2006 - Present).

American Chemical Society, (2006 - 2015).

Sigma Xi Scientific Research Society, (2006 - Present).

American Society for Biochemistry and Molecular Biology (2006 - Present).

The Ohio Academy of Science, (2006 - 2012).

Junior Civic League, Ada Ohio (2014-Present).

Soroptimist International, Kenton-Hardin County (2015-Present)

Kiwanis International (2006 - 2008).

Circle K International (2006 - Present).

Phi Delta Chi Pharmacy Fraternity (2007 - Present).

American Chemical Society Student Affiliates (1997 - 1999).

Workshops, Seminars, Continuing Education

"NIH R15 Area Award Training Session," Ohio Northern University (2017).

"Active Learning", Ohio Northern University (2017).

"Test2 Learn Pharmacogenomics Certificate Program", University of Pittsburgh (2016)

"Arbinger Seminar", Ohio Northern University (2016).

"Precision Medicine Conference," University of Florida. (2016).

"Pharmacogenomics Certification Program," Manchester College of Pharmacy. (2015).

"Faculty Development and Teaching Scholars Program," West Virginia University. (2012).

"ACS and You," American Chemical Society. (2009).

"Budgeting 101," Council on Undergraduate Research. (2009).

"Coaching and Feedback," American Chemical Society. (2009).

"Describing the Role of Undergraduates in your Research," Council on Undergraduate Research. (2009).

"Fostering Innovation," American Chemical Society. (2009).

"Foundations and their special requirements," Council on Undergraduate Research. (2009).

"Grant Writing," Council on Undergraduate Research. (2009).

"How to Critique a Proposal," Council on Undergraduate Research. (2009).

"Leading Without Authority," American Chemical Society. (2009).

"The Rhetoric of the Grant Proposal," Council on Undergraduate Research. (2009).

"Things you Need to Know to Submit," Council on Undergraduate Research. (2009).

"What Reviewers Look For and the Review Process," Council on Undergraduate Research. (2009).

"Team Learning: Cooperative Learning in the Science Classroom -," National Center for Case Study Teaching in Science. (2008).

"The Use of Case Studies and group discussions in Science Education," National Center for Case Study Teaching in Science. (2008).

"Food, Nutrition, Physical Activity and Cancer." American Institute for Cancer Research (2009). -17.5 CPEUs

"Advanced Cardiac Life Support Instructor Renewal Course," AHA. (2008). - 2.5 Edu Cr

"Introduction to Wiley Plus," Wiley faculty Network (2008).

"Matching Online Assessments to Online Pedagogies," Wiley faculty Network (2008).

"Meaningful Pre-Lab Preparation Through Virtual Labs," Wiley faculty Network (2008).

"Outcomes Assessment," Wiley faculty Network (2008).

"The Top Six Reasons Faculty Choose to Teach Online," Rich Media Training (2008).

"Using Personal Response Systems to Increase Classroom Participation and Retention," American Association of Colleges of Pharmacy (2008).

"Biosafety and Biosecurity Training," Fort Collins, CO (2008, 2013).

"Exam Writing Strategies with Nicholas Popovich, Ph.D." Ohio Northern University (2008).

"Assessment 101, Katherine Kelley, Ph.D" Ohio Northern University (2008).

"Writing Ability-Based Outcomes, Katherine Kelley, PhD" Ohio Northern University (2008).

"Curricular Mapping: Process AND Product, Katherine Kelley, PhD", Ohio Northern University (2008).

"Biosafety in Microbiological and Biomedical Laboratories." Ohio Northern University (2008).

"Masters Teachers Program," Ohio Northern University. (2008).

"Cardiac Structure and Function", Healthworks (2007). - 2 CEUs

"Basic Hemodynamics," Healthworks (2007). - 1 CEUs

"Assurance of Learning", Professional Development (2007).

"CPR / AED training," American Red Cross (2007).

"Engaging Students in a Large Classroom," American Association of the Colleges of Pharmacy (2007).

"Fostering Professionalism in Students," Discussion Mediator – American Association of the Colleges of Pharmacy (2007).

"Cultural Competency Curriculum Integration and Training," Cultural Competence in Health Professions Education Institute (2007).

"Responsible Conduct of Research," The Ohio State University (2005).

"Making the Most of your Talk," The Ohio State University (2003).

"Preparing for Positions Outside Academia," The Ohio State University (2003).

"Responsible Research Conduct Workshop," The Ohio State University (2001).

"Inorganic Biochemistry Summer Workshop," University of Georgia (2000).

Conference and Meetings

"Experimental Biology" Chicago, IL (2017).
"Midwest Enzyme Chemistry Conference" Chicago, IL (2016).
"AICR Bi-annual Meeting" Bethesda, MD (2016).
"Sigma Xi Annual Meeting, Atlanta, GA (2016).
"Experimental Biology" San Diego, CA (2016).
"Sigma Xi Annual Meeting, Kansas City, KS (2015).
"ISPG Conference and Debate" St. Petersburg, FL (2015).
"Sigma Xi Annual Meeting, Glendale, AZ (2015).
"Experimental Biology" Boston, MA (2015).
"Butler University Undergraduate Research Conference, Indianapolis, IN (2015).
"Midwest Enzyme Chemistry Conference" Chicago, IL (2014).
"AICR Annual Meeting" Washington, DC (2013).
"American Association of the Colleges of Pharmacy Annual Meeting," AACP, Orlando, FL (2012). – Faculty Delegate
"ACS Central Ohio Region Annual Meeting," ACS, Indianapolis, IN (2011).
"ASBMB Annual Meeting," Experimental biology, Washington, DC (2011).
"ASBMB Annual Meeting," Experimental biology, Anaheim, CA (2010).
"Food, Nutrition, Physical Activity and Cancer." American Institute for Cancer Research, Washington, DC (2009).
"Grant Writing," Council on Undergraduate Research. Salem, OR (2009).
"Leadership Institute," American Chemical Society. Fort Worth, TX (2009).
"American Chemical Society Central Ohio Region," ACS. Columbus, OH (2008).
"Experimental Biology," ASBMB. New Orleans, LA (2008).
"Sigma Xi National Meeting and Student Research Conference," ONU delegate (2007-present).
"Biosafety Training." Fort Collins, CO (2008).
"Masters Teachers Program," ONU. Ada, OH (2008).
"American Association of Colleges of Pharmacy Annual Meeting," Orlando, FL (2007).
"Cultural Competence in Health Professions Education Institute" Washington, DC (2007).
"Midwest Enzyme Conference" Chicago, IL (2007).
"XXVI Midwest Enzyme Chemistry Conference" Chicago, IL (2006).
"Midwest Metals Meeting" (2004).
"VCU Transcription Termination Meeting" (2004).
"OSU Medical Center Research Day" (2003).
"Gordon Research Conference for Molybdenum and Tungsten Enzymes" (2003).
"Department of Molecular and Cellular Biochemistry Retreat" (2003).
"The Ohio State University Protein Research Group Retreat" (2002).
"Department of Molecular and Cellular Biochemistry Retreat" (2002).
"Department of Molecular and Cellular Biochemistry Retreat" (2001).
"Inorganic Biochemistry Summer Workshop" (2000).

Coursework

Biochemistry

General Biochemistry
Protein Spectroscopy
Protein Biochemistry
Enzymology
Advanced Enzymology
Genetics of DNA replication and repair
Regulation of gene expression
Intermediary Metabolism
Lipids and membranes
Cell Biology
Transitional organometallo chemistry
Bioinorganic chemistry
Animal Models of Human Disease

Chemistry

General Chemistry
Inorganic chemistry
Organic Chemistry
Analytical Chemistry
Physical Chemistry

Related Sciences

Mechanical Physics
Electrical/Optical Physics
Calculus I, II, III
Computer Science
Geology

General

Philosophy
Art Appreciation
Forestry
Archeology

Psychology

General Psychology
Developmental Psychology I, II
Statistics for Psychology

Communications

A/P English
English Writing I, II
Creative Writing
German
Communications

Service

University Service

Committee Chair, Academic Conduct. (2017-Present).
Board Member, University Disciplinary Board. (2017-Present).
Committee Chair, University Biosafety. (2009 - Present).
Committee Member, University Biosafety. (2009 - 2010).
Council Member, University Council. (2007 - 2011).
Committee Member, University Council Subcommittee. (2008 - 2009).
Committee Member, Safety. (2008 - Present).
Committee Member, Presidential Speaker Series Planning. (2008 - 2011).
Committee Member, Student Research Colloquium Planning. (2009 - Present).
Committee Member, Facilities and Planning Committee. (2007 - 2008).
Committee Chair, University Disciplinary Board Hearing Committee. (2007 - 2008).
University Service, Faculty Interviewer. (2006 - Present).
University Board of Appeals and Disciplinary Board. (2006 - 2008).
Attendee, President's Leadership Dessert. (2007 - 2009).
Support Donor, The Northern Fund, Student Skills Center, Alumni and Friend Entry Pavilion. (2005 - Present).
Bear Supporter, ONU Student Athlete Advisory Committee Adopt-a-Bear – Woman's Soccer. (2007 - 2008).
Design and Implementation of University wide Biosafety Program and Training.
Member, Faculty Ambassador. (2009 - 2010).
Committee Member, Faculty Search Committee. (2007 - 2008).
Faculty Interview Team for University President. (2010 - 2011).
Interview, College of Pharmacy (2007 - Present).
Advised an average of 30 students per year. (2005 - Present).
Advisor, Honors Program Contract Course and Projects.
Faculty Advisor, Phi Delta Chi. (2007 - 2013).
Faculty Advisor, Circle K Faculty Advisor. (2006 - Present).

College and Departmental Service

Committee Chair, Pharmacy Safety Committee. (2009 - Present).
Committee Member, Student Affairs. (2009 - 2012).
Biosafety Officer for College, Safety. (2008 - Present).
Committee Member, Honors and Awards. (2007 - Present).
Committee Chair, ASBMB Meeting Proposal Committee. (2007 - 2009).
Committee Member, Faculty Affairs. (2006 – 2008, 2012-2015).
Committee Member, Assessment Committee. (2011 – 2012, 2013-present).
Development of Honors Day Projection Program. (2008 - Present)
Development of College Biosafety Training Program and Course.
Incorporation of Research Ethics Training for College of Pharmacy.
Participate, AACP Focus Group. (2007).
Syllabi Review (sample included) for course equivalents. (2006.-.Present).

Professional Service

Committee Member, Sigma Xi Awards. (2016-Present)
Board Member, Sigma Xi Research Society. (2015-Present).
Reviewer, Ohio Academy of Science. (2009 - Present).
Reviewer, Biochemistry 3rd edition Voet, Voet, and Pratt, Wiley. (2009.-.Present).
Reviewer, Journal Article, Computational Biology and Chemistry. (2009 - Present).
Committee Member, 2009-2010 Paul Dawson Biotechnology Award Selection Committee. (2009).
Officer, Chair, American Chemical Society NW Central Section. (2010 - Present).
Officer, Vice Chair, American Chemical Society NW Central Section. (2010 -2012).
Officer, President, Sigma Xi Research Society, Ada, OH. (2008 – 2010, Present).
Officer, Past President, Sigma Xi Research Society, Ada, OH. (2010 - 2011).
Research colloquium organizer, Sigma Xi Research Society. (2007 - 2009).
Judge, Sigma Xi Research Society. (2007-2009).
Special Awards Design, Ohio Academy of Science. (2006-2008).
Judge, Ohio Academy of Science. Science Fair. (2005 - 2007).

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Judge, Sigma Xi Research Society National Undergraduate Research Conference. (2007 - 2008).

Discussion Mediator, AACP. (2007).

Graduate Studies Committee, The Ohio State University. (2003).

American Chemical Society Student Affiliates, Vice President. (1998).

Public and Community Service

Soroptimist International. (2015-present).

Junior Civic League, Ada, OH. (2014-present).

Member, Our Lady of Lourdes, Ada, OH. (2009 - Present).

Ada Food Pantry. (2009).

Advisor, Circle K, Ada, OH. (2007 - Present).

Kiwanis Advisor. (2007 – 2009).

Guest Speaker, Kiwanis International, Ada, OH. (2007, 2009).

Kiwanis International. (2006 - 2009).

Circle K Fundraiser Weekend, Sandusky, OH. (2007).

Circle K Christmas for Kids Project. (2007).

Girl Scouts Ecology Day (2007).