



February 17, 2015

Dear Colleagues:

The Drake College of Pharmacy and Health Sciences would like to provide you with a summary of its scholarly activities for CY 2014.

Highlights of the attached report include:

- 22 PEER-REVIEWED ARTICLES
- 11 PEER-REVIEWED PODIUM PRESENTATIONS
- 22 PEER-REVIEWED POSTERS
- 12 INVITED ARTICLES/COLUMNS
- 47 INVITED PODIUM PRESENTATIONS
- 12 INVITED POSTERS
- 2 BOOKS
- 2 BOOK CHAPTERS
- 37 UNDERGRADUATE/PROFESSIONAL STUDENT RESEARCH PROJECTS
- 23 NEW GRANTS/CONTRACTS TOTALLING \$442,430

This report does not summarize the many local, regional and national service accomplishments of the faculty. Included in those efforts are patient care services and other professional service efforts provided by the faculty. The faculty remains committed to pharmacy education and enhancing the quality of student graduates through classroom and experiential learning.

Regards,
Charles R. Phillips
Assistant Dean for Assessment

Preparing today's learners to be tomorrow's health care leaders

CPHS SCHOLARSHIP SUMMARY

CALENDAR YEAR 2014:

(COMPLETED WORK)

PEER REVIEWED ARTICLES: (22¹)

Andreski, M, Kjos A, Raber, H, Hendzel, A. Iowa Pharmacy Technician Survey 2012; The Journal of the Iowa Pharmacy Association, 69: 4, Oct/Nov/Dec 2014, 32-47.

Arroyo J, M Price, S Straszewski-Chavez, **RJ Torry**, G Mor, DS Torry. XIAP protein is induced by Placenta Growth Factor (PIGF) and decreased during preeclampsia in trophoblast cells. Systems Biology in Reproductive Medicine, Oct; 60(5): 263-73, 2014.

Brandenburg J, Litzenburg D, Bell EA. Recent pediatric infectious disease and acne therapy guidelines: implications for the pharmacist. Journal of the Iowa Pharmacy Association 2014; 69:38-47

Bryant GA, Koenigsfeld CF, Lehman NP, Smith HL, Logemann CD, Phillips KT. A retrospective evaluation of response to vitamin D supplementation in obese versus non-obese patients. J Pharm Pract. Prepublished August 14, 2014. DOI: 10.1177/0897190014544822.

Dy-Boarman EA, Nisly SA. Evaluation and revision of an introduction to experiential rotations course. JoSoTL. 2014;14(3):34-35.

Eiland LS, **Bell EA,** Errampouspe J. Priapism associated with the use of stimulant medications and atomoxetine for attention-deficit/hyperactivity disorder in children. Annals of Pharmacotherapy 2014;48:1350-1355

Gentry BG, Drach JC. Metabolism of Cyclopropavir and Ganciclovir in Human Cytomegalovirus Infected Cells. Antimicrobial Agents and Chemotherapy 58(4): 2329-2333 (2014).

Gitua J, **Beck A, Rovers J.** Quality and stability of artemether-lumefantrine stored under ambient conditions in rural Mali. Malaria J 2014;13:374.

Grady SE, Reichert H. Evaluating Pharmacy Services Satisfaction on an Inpatient Psychiatric Unit. Mental Health Clinician 2014; 4(6): 69.

Heitzer A, Meredith A. Job, **Pandit NK,** and Maria G. Valdovinos. Should Clinical Trial Research of Psychotropic Medication in Autism Control for Gastrointestinal Symptoms? The Journal of Clinical Pharmacology 54(10) 1093–1096, 2014.

Johnson JF, Bell E, Bottenberg M, Eastman D, Grady S, Koenigsfeld C, Maki E, Meyer K, Phillips C, Schirmer L. A Multiyear Analysis of Team-Based Learning in a Pharmacotherapeutics Course. Am J Pharm Educ. 2014; 78(7) article 142.

Law AV, **Bottenberg MM** Brozick AH, Currie JD, DiVall MV, Haines ST, Jolowsky C, Koh-Knox CP, Leonard GA, Phelps SJ, Rao D, Webster A, Yablonski E. A checklist for the development of faculty mentorship programs. Am J Pharm Educ. 2014 Jun 17;78(5):98.

Lehman NP, Logemann CD, **Koenigsfeld CF, Bryant GA.** Analysis of treatment decisions provided by clinic-based pharmacists after review of glucometer download reports. Journal of the Iowa Pharmacy Association. 2014;LXVIV(2):34-39.

Percival KM, Bergman SJ. Update on Posaconazole Pharmacokinetics: Comparison of Old and New Formulations. Curr Fungal Infect Rep 2014; 8 (2):139-145.DOI: 10.1007/s12281-014-0185-y

Privitera M, **Welty T,** Gidal B, Carlson C, Pollard J, Berg M. How Do Clinicians Adjust Lamotrigine Doses and Use Lamotrigine Blood Levels?-A Q-PULSE Survey. Epilepsy Curr. 2014 Jul;14(4):218-23. doi: 10.5698/1535-7597-14.4.218.

¹ Student co-authors are underlined

2014 SCHOLARSHIP REPORT

Rovers J, Michael Andreski, John Gitua, Abdoulaye Bagayoko and Jill DeVore . Expanding the scope of medical mission volunteer groups to include a research component: the launch of Globalization and Health. *Globalization and Health*, 10:7 (20 Feb 2014)

Rovers J. Interview with the medicine man: A case study of a traditional Malian healer. *INNOVATIONS in Pharmacy*. 2014; 5(3).

Ruch RJ, Boucher PD, **Gentry BG**, Shewach DS. Gap Junctional Intercellular Communication Increases Cytotoxicity and Reduces Resistance to Hydroxyurea. *Journal of Cancer Therapy* 5: 1190-1202 (2014).

Wall GC, Bryant GA, Bottenberg MM, Maki E, Miesner AR. Irritable bowel syndrome: A concise review of current treatment concepts. *World J Gastroenterol*. 2014 Jul 21;20(27):8796-8806

Wall GC, Nayima VA, Neumeister KM . Assessment of hypersensitivity reactions in patients receiving carapenem antibiotics who report a history of penicillin allergy. *J Chemother*. 2014 Jun;26(3):150-3.

Welty TE, Luebke A, Gidal BE. Cannabidiol: promise and pitfalls. *Epilepsy Curr*. 2014 Sep;14(5):250-2. doi: 10.5698/1535-7597-14.5.250.

Wrenn, C.C., Heitzer, A.M., Roth, A.K., Nawrocki, L., Valdovinos, M.G. Effects of clonidine and methylphenidate on motor activity in Fmr1 knockout mice. *Neuroscience Letters*, 585 (2015) 109-113. Available online Nov 26, 2014.

PEER REVIEWED PODIUM PRESENTATIONS: (11)

Daniel A, **Bottenberg MM**, Bethards M, Gardner G. “The Des Moines Area Interprofessional Education Collaborative.” The International Meeting on Simulation in Healthcare, San Francisco, CA, January 2011.

Huey, K.A., Hilliard, C., Hunt, C.R. Effect of HSP25 Loss on Muscle Function and Running Activity in Young and Old Mice. Thematic poster podium presentation at American College of Sports Medicine National Meeting, May 27-31, 2014, Orlando, FL.

Murphy T, Groesch K, Mann T, Schroeder M, Wilber A, **Torry RJ**, Torry DS. Activation of NFkB inhibits placenta growth factor in human trophoblast: possible implications for preeclampsia. Illinois Symposium on Reproductive Sciences, Chicago, IL, October, 2014

Sauer H., presenter; Dr. Marie Nguyen and **Dr. Brian Gentry** (co-authors). Biosynthesis of MBX-2168 Triphosphate in Herpes Virus-Infected Cells. DMU Research Symposium, Des Moines University, Des Moines, IA (2014).

Sedlacek R, **Clarke C**. Poverty Simulation: Enhancing Experiential Education for Health Professional Students. Presented at: National Society for Experiential Education 2014 Annual Conference; September 30, 2014; Baltimore, MD.

Shenoy P, Bottenberg MM. “Lightning Librarians: P1 Drug Information Competencies. AACP Annual Meeting, Grapevine, TX, July 2014.

Stelter, N. July 2014. “Coaching at the Counter... Opportunities for Enhancing Communication with a Patient-Centered Approach”, McKesson IdeaShare Conference, Orlando, FL

Stelter, N. July 2014. “Integration of Interprofessional Practice and Education in a Supermarket-Based Lifestyle Modification Class”, American Association of Colleges of Pharmacy Annual Meeting, Dallas, TX

Ulrich EE, Farris KB. Quantifying and Characterizing Post-ADE Behaviors in Terms of Andersen Model of Healthcare Utilization Constructs; Predisposing Characteristics, Enabling Resources, and Need Factors. International Social Pharmacy Workshop. Aug 2014. Boston, MA, USA.

Wall G. “Gamechangers in Pharmacy: 2013” Presented at McKesson IdeaShare Annual Meeting, Orlando, FL. June 2014

2014 SCHOLARSHIP REPORT

Wall G. “The Emerging Role of the Pharmacist in the Optimal Clinical Management of Chronic Disease”. Presented at the first annual PharmEdge Symposium, Abu Dhabi, UAE. September 2014

PEER REVIEWED POSTERS: (22)

Berg M, Diaz F, Bolger P, Dworetzky B, Elder E, Gidal B, Jiang W, Krebill R, McBee N, Paige AL, Pollard J, Szaflarski J, **Welty T**, Ficker D, Privitera M. Equivalence among generic AEDs (EQUIGEN) - Single-dose study. Poster presented at the 2014 Annual Meeting of the American Epilepsy Society; December 4-9, 2014; Seattle, Washington.

Ficker D, Berg M, Bolger P, Diaz F, Dworetzky B, Elder E, Gidal B, Jiang W, Krebill R, McBee N, Paige AL, Pollard J, Privitera M, Szaflarski J, **Welty T**. Patients reporting problems after generic antiepileptic drugs switches are unlikely to participate in a generic bioequivalence trial. Poster presented at the 2014 Annual Meeting of the American Epilepsy Society; December 4-9, 2014; Seattle, Washington.

Gentry BG, Drach JC, Biosynthesis and Degradation of the Triphosphates of Cyclopropavir and Ganciclovir in Human Cytomegalovirus Infected Cells. 27th Annual International Conference on Antiviral Research (2014).

Grady S, Bottenberg M, Caligiuri F, Behnke J, Stoffel H, Thuraf J. “Student-Led Interprofessional Collaborative Event: Teaming Up to Fight Substance Use Disorders.” Presented at the 2014 Iowa Pharmacy Association Annual Meeting in Altoona, IA, June 12th, 2014.

Hannah Stonewall and **Abebe Mengesha**. Effect of moisture on the crystalline structure of pure monoglycerides. Abstract and poster presented at: 126th Annual Meeting of the Iowa Academy of Science (IAS); April 11 - 12, 2014; Fort Dodge, IA

Hannah Stonewall, Haley Kessinger and **Abebe Mengesha**. Investigation of structural and phase transition of high purity monoglyceride-water systems. Abstract and poster presented at: American Association of Pharmaceutical Scientists (AAPS) 2014 Annual Meeting and Exposition; Nov. 02 - 06, 2014; San Diego, CA.

Hannah Stonewall, Haley Kessinger, Elizabeth Radloff, Anh-ton Dang and **Abebe Mengesha**, Thermosensitive monoglycerides blend for smart medical system. Poster presented at: 2014 Great Midwestern Regional Space Grant Consortia Meeting, Sept. 19 – 20, 2014, Des Moines, IA.

Huey, K.A., Delavar, H. and Breen, E.C. Effects of muscle specific VEGF loss on muscle hypertrophy and function induced by functional overload in mice. Poster presented at Experimental Biology, April 26-30, 2014, San Diego, CA.

Huey, K.A., Hilliard, C, Hunt, C.R. Effect of HSP25 Loss on Muscle Function and Running Activity in Young and Old Mice. Poster presented at American College of Sports Medicine National Meeting, May 27-31, 2014, Orlando, FL.

Huey, K.A., Smith, S., and Breen, EC. Effects of VGF loss on muscle hypertrophy and growth factor responses induced by functional overload in mice. Integrative Physiology of Exercise Meeting, September 17-20, 2014, Miami, FL.

Mobley-Bukstein W, Ulrich EE, Herr RM, Aldrich CM. Quantifying the Relationship Between Individual Characteristics and Interest in Receiving an MTM. Iowa Pharmacy Association Annual Meeting. June 2014. Des Moines, IA, USA.

Mobley-Bukstein W, Ulrich EE, Herr RM, Aldrich CM. Quantifying the Relationship Between Individual Characteristics and Interest in Receiving an MTM. American Pharmacists Association Annual Meeting. March 2014. Orlando, FL, USA.

Mobley-Bukstein W, Stelter N. Team Up, Pressure Down: A Student-Run Blood Pressure Screening Program. Iowa Pharmacy Association Annual Meeting. June 2014.

2014 SCHOLARSHIP REPORT

Percival KM, Bergman SJ, Valenti K, Schmittling S, Lopez R. "Impact of an Antibiotic Stewardship Educational Intervention on Urinary Tract Infection Treatment in the Emergency Department." Interscience Conference on Antimicrobial Agnts and Chemotherapy (ICAAC). Washington, D.C. September 2014

Percival KM, Cummins JK, Valenti KM, Schmittling SE, Bergman SJ. "Assessment of a Vancomycin Dosing Protocol to Achieve Goal Serum Concentrations" American College of Clinical Pharmacy Annual Meeting. Austin, TX. October 2014

Phillips CR, Chesnut RJ. Determining perceived stress levels, triggers, and coping mechanisms for faculty, students, and staff. 2014 AACP Annual Meeting, Grapevine, TX.

Privitera M, Diaz F, Dworetzky B, Bolger P, Krebill R, Gidal B, Elder E, Paige AL, Szaflarski J, **Welty T**, Pollard J, Jiang W, McBee N, Berg M. Bioequivalence testing of disparate generic lamotrigine products using chronic dosing in people with epilepsy: the EQUIGEN study. Poster presented at the 2014 Annual Meeting of the American Epilepsy Society; December 4-9, 2014; Seattle, Washington.

Smith D, Berg M, Cohen N, Llewellyn N, Lozano M, Schwieterman D, Sieren J, Bolger P, Diaz F, Dworetzky B, Elder E, Gidal B, Jiang W, Krebill R, McBee N, Paige AL, Pollard J, Privitera M, Szaflarski J, **Welty T**, Ficker D. Subject-unrecognized medication adherence errors in the Equivalence among Generic AED (EQUIGEN) chronic dose trial. Poster presented at the 2014 Annual Meeting of the American Epilepsy Society; December 4-9, 2014; Seattle, Washington.

Stelter N, Skrabal M, Cardello L, Colbert J, Hix M, Kieser M, Seeger C, Talbert R, Weitzel K. Highlights of a National Preceptor Development Survey Based on Practice Setting Preferences. American Association of Colleges of Pharmacy Annual Meeting. July 2014.

Tallman G, **Percival KM**, Brock J. "Impact of DNA hybridization-based rapid organism identification and resistance detection with antimicrobial stewardship intervention in patients with Gram-positive or Gram-negative bacteremia." Resident Poster - ASHP Midyear Clinical Meeting, Anaheim, CA. December 2014

Truong J, **Percival KM**, Brock J. "Comparing the clinical outcomes of daptomycin dosing based on adjusted body weight versus actual body weight in obese patients." Resident Poster – ASHP Midyear Clinical Meeting, Anaheim, CA. December 2014

Ulrich EE, Perepelkin JP, **Herr RM**. Community Pharmacy Cognitive Service Availability: Phase I of an International Comparison. International Social Pharmacy Workshop. Aug 2014. Boston, MA, USA.

NON-PEER REVIEWED ARTICLES: (2)

Miesner AR. A pharmacist's reflection on serving as preceptor to a medical student. Am J Pharm Educ. 2014;78(1):23.

Mobley-Bukstein, W; Arndorfer, AA; The Role of the Pharmacy Technician in Patient Care Services. TEAM Continuing Education Monograph for the Collaborative Education Institute, December 2014.

NON-PEER REVIEWED COLUMNS: (10)

Bell EA. What's in a dose - perhaps not what you think. Infectious Diseases in Children 2014;26(8):12

Bell EA. Antiviral agents for herpes simplex infection. Infectious Diseases in Children 2014;26(7):25

Bell EA. Azithromycin - what is its role? Infectious Diseases in Children 2014;26(6):14

Bell EA. Antibiotic prescribing habits - how are we doing? Infectious Diseases in Children 2014;26(5):17

Bell EA. Otological antibiotics - when should they be used? Infectious Diseases in Children 2014;26(4):22

Bell EA. Vaccine errors. Infectious Diseases in Children 2014;26(3):18

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Bell EA. How sweet it is - honey as medicine. *Infectious Diseases in Children* 2014;27(2):7

Bell EA. Black box and other drug warnings – what to they mean? *Infectious iseases in Children* 2014;27(1):16

Percival KM, Ferguson MC. “Ask the Expert: Are Antibiotics a Treatment Option for Low Back Pain?” *Practical Pain Management* March 2014; 14(2): 16.

Phillips, CR. Building a Culture of Assessment. *AACP Assessment SIG Newsletter* 2(1), Spring 2014.

INVITED/NON-REVIEWED PODIUM PRESENTATIONS (47)

Andreski, M, Myers, M, Pudlo A. Presentation to the Iowa Board of Pharmacy for Research Approval for Iowa New Practice Model, August 28, 2014 (regional)

Andreski, M, Myers, M, Pudlo A. Presentation to the Iowa Board of Pharmacy for Quarterly Report for Iowa New Pactice Model, November 19 , 2014 (regional)

Bottenberg M, Bryant G, Caligiuri F. Laboratory Instructors SIG: Interprofessional Education in the Laboratory Setting. Presented at the American Association of Colleges of Pharmacy (AACP) Annual Meeting. Grapevine, TX. July 2014. (national)

Bottenberg MM. “A Paradigm Shift in Cholesterol Management: A Review of the New Cholesterol Treatment Guideline” Log-in-to-Learn Online Journal Club, Collaborative Education Institute, Des Moines, IA, January 2014. (regional)

Bottenberg MM. A Paradigm Shift in Cholesterol Management: A Review of the New Cholesterol Treatment Guideline.” Drake’s Back to School Webinar Series Get a Grip on the Guidelines, Collaborative Education Institute, Des Moines, IA, September 2014. (regional)

Caligiuri F. “Medical Cannabis: A Focus on Pain and Palliation” Nursing Continuing Education presented October 31st, 2014, Advancements in Pain Management and Palliative Care, Mercy Medical Center in Des Moines, Iowa. (local)

Chesnut R, J. Altschaf, D. McCaffrey. Admissions Workshop: Interview Practices Logistics & Activities. American Association of Colleges of Pharmacy Annual Meeting, 2014, Grapevine, TX. (national)

Chesnut R, Successful Design and Implementation of Focused Educational Tracks: Design and Implementation of a Curricular Track. American College of Clinical Pharmacy Annual Meeting, 2014, Austin, TX. (national)

Chesnut R, T. Tenhoeve, K. C. Watchmaker, K. Mitchell. Crisis Management Workshop. American Association of Colleges of Pharmacy Annual Meeting, 2014 (Section of Administrative Services) (national)

Cross Beemer, R., Wright, B, Meyer, H. (2014) Assessment of lower-extremity strength, mfunctional capacity, and pain in subjects with PFPS: A review of the current research. 6th Annual Sports Medicine Conference on Prevention, Early & Appropriate Care of Injuries and Functional Limitations in Physical Activity and Sports Performance. March 8th, Des Moines, IA. (regional)

Crowe, C. **Fornoff. A.** Manley, E. McReynolds, M. Perrine, J. Patton-Imani, S. Sturm-Smith, M. Zeff, E. “Building Reflective Engaged Ciizens from Day One: Community Engagement, Service-Learning, and Reflection.” Drake Learning Symposium. Des Moines, IA. August 2014. (local)

Dy-Boarman EA. Updates on the Management of Atrial Fibrillation. Presented at: Get a Grip on the Guidelines: Drake's Back to School Webinar Series, The Collaborative Education Institute; September 18, 2014; Des Moines, IA. (regional)

Fornoff, A. “Ability Awareness.” Drake Best Buddies Sponsored Campus Presentation. Des Moines, Iowa. November 2014. (local)

2014 SCHOLARSHIP REPORT

Fornoff, A. Gillespie, C. Henry, S. Leuwerke, W. Perrine, J. Stanley, C. “College and Career Readiness: Proactive Strategies to Promote Success.” Drake Learning Symposium. Des Moines, IA. August 2014. (local)

Haack, S. Is JNC-8 Really that Great? CEI Back to School Webinar. September 2014. (regional)

Hilscher J, **Ulrich EE**, Manley E, Sherman M. Flipping Your Classroom. Drake University Provost Learning Symposium. Aug 15, 2014. West Des Moines, IA. (local)

Johnson JF. Obesity Guidelines and Treatment Options. Presented to pharmacists for CE as part of CEI program “Get A Grip on the Guidelines” Drake’s Back to School Webinar Series. September 25, 2014. (local)

Koenigsfeld C. APhA Diabetes Certificate Program, National Program Austin, Texas November 2014 (national)

Koenigsfeld C. APhA Diabetes Certificate Program, National Program Chicago, Illinois July 2014 (national)

Koenigsfeld C. APhA Diabetes Certificate Program, National Program San Francisco, California, May 2014 (national)

Koenigsfeld C. APhA Diabetes Certificate Program, National Program Charlotte, North Carolina November 2014 (national)

Koenigsfeld C. APhA Immunization Certificate Program, National Program Columbia, South Carolina October 2014 (national)

Koenigsfeld C. APhA Immunization Certificate Program, National Program Fort Lauderdale, Florida Set 2014 (national)

Koenigsfeld C. APhA Immunization Certificate Program, National Program Chicago, Illinois July 2014 (national)

Koenigsfeld C. APhA Immunization Certificate Program, National Program Austin, Texas October 2014 (national)

Koenigsfeld C. APhA Immunization Train the Trainer Program, Walmart Pharmay, Dallas, TX, April 2014 (national)

Koenigsfeld C. APhA Immunization Train the Trainer Program, Walmart Pharmacy, Dallas, TX, February 2014 (national)

Koenigsfeld C. APhA Immunization Train the Trainer Program, University of Kansas, Lawrence, Kansas December 2014 (national)

Koenigsfeld C. APhA Immunization Train the Trainer Program, University of Houston, Houston, TX December 2014 (national)

Mahajan, Pramod B. Invited speaker at the Fall 2014 Educational Meeting of the Iowa Association of Nurse Anesthetists, Saturday Sept. 27, 2014; Des Moines (regional)

Meyer KS. “411 or 911? Evaluating the Clinical Significance of Drug Interactions.” Midwest Athletic Trainers Association Annual Meeting, West Des Moines, Iowa, March 2014. (regional)

Meyer KS. “Polypharmacy: Are you a Contributor?” Iowa Physician Assistant Society Annual Meeting, West Des Moines, Iowa, April 2014. (regional)

Miesner AR. Clostridium Difficile Infection: An Update on Treatment. Presented at the Central Iowa Pharmacy Association monthly meeting. September 2014. (regional)

Mobley-Bukstein, WS. “Intro to Team Based Learning” Phi Lambda Sigma and Rho Chi meeting for P2 students; November 2014. (local)

Mulhausen P, **Lehman NP**, Wills J. Understanding Warfarin and its Management in Long Term Care. Webinar for Leading Age Iowa, April 18, 2014. (regional)

2014 SCHOLARSHIP REPORT

Percival KM. “Antibiotic Review.” Internal Medicine Noon Conference Series. Mercy Medical Center, Des Moines, IA. December 2014. (local)

Percival, KM. “Pharmacist Role in the Treatment of Patients with HIV/AIDS.” Drake University SNAPhA, World’s IDS Day Speaker. Drake University, Des Moines, IA. November 2014 (local)

Phillips CR. This I Believe... Key Leadership Characteristics. 2013-4 Student Leadership Development Series, Drake University College of Pharmacy and Health Sciences, April 11, 2014. (local)

Phillips CR. Primer on Creating Surveys. 2014-15 Student Leadership Development Series, Drake University College of Pharmacy and Health Sciences, October 24, 2014. (local)

Stelter, N. “Maintaining Access to Lives for Retail Pharmacies by Providing Quality Care” Health Mart Pharmacies, Minneapolis, MN, March 2014 (national)

Stelter, N. “Maintaining Access to Lives for Retail Pharmacies by Providing Quality Care” Health Mart Pharmacies, Omaha, NE, March 2014 (national)

Stelter, N. February 2014. “Creating Your Personal Brand to Stand Out from the Crowd”, Midwest Pharmacy Expo, Altoona, IA (regional)

Stelter, N. March 2014. “Coaching at the Counter... Opportunities for Enhancing Communication with a Patient-Centered Approach”, McKesson Health Mart Pharmacies CE Webinar (national)

Ulrich EE. How to Develop a Research Question, Drake CPHS Student Leadership Development Series, September 26, 2014. (local)

Ulrich EE. Introduction to Research Methods, Drake CPHS New Faculty Seminar; October 9, 2014. (local)

Wall G. Battle of the Guidelines: JNC 8 VS ASH for Hypertension Treatment. Grand Rounds at Iowa Methodist Medical Center, February 2014 (local)

Welty, T. “The treatment of epilepsy.” Dali University, Dali, Yunnan, China, March 2014. (local)

INVITED/NON-REVIEWED POSTER PRESENTATIONS (12)

Alexander Herold, Sophia Smith, and **Kimberly Huey** (Mentor). Effects of Statin Treatment on Muscle Adaptation During Chronic Overload. Drake Undergraduate Research Symposium, April 10, 2014. (local)

Brad Duwe and **Kimberly Huey** (Mentor). Effects of a Pre-Exercise Supplement on Anaerobic Power and Blood Lactate Levels in Males and Females. Des Moines University Research Symposium, December 2014. (local)

Cross Beemer, Rhonda (mentor), Wright, B, Meyer, H (2014) Comparison of isokinetic muscle performance in active, healthy males and females. Drake University Conference for Undergraduate Research. (local)

Fornoff, A. Friedman, L. “FYS Students in the Community: Ruby Van Meter Service-Learning.” Drake Experiential Learning Showcase. Des Moines, Iowa. April 2014. (local)

Fornoff, A. Hedgepeth, S. Friedman, L. “Geriatric Service Learning Pharmacy Experience.” Drake Experiential Learning Showcase. Des Moines, Iowa. April 2014. (local)

Fornoff, A. Valdovinos M. “Sharing Abilities: A First Year Seminar Service-Learning Partnership.” Drake Learning Symposium. Des Moines, IA. August 2014. (local)

Gabrielle Dillon, Austin Moore, Kaila Wechsler, and **Kimberly Huey** (Mentor). Effects of Energy Gel Composition on Blood Glucose and Fuel Utilization in Males and Females During Submaximal Exercise. Drake Undergraduate Research Symposium, April 10, 2014. (local)

2014 SCHOLARSHIP REPORT

Kochanski JJ, **Sacco JC**. Sequencing and in-silico analysis of canine GSTA1 and GSTM1 genes and transcript(s). Poster presented at the 11th Annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS), Des Moines, IA, April 10th, 2014. Winning poster. (local)

O'Brien MS, **Gentry BG**, DNA Polymerase Inhibitors Enhance the Anti-Viral Effect of Terminase Inhibitors when used in Combination against HCMV. Des Moines University Research Symposium (2014). (local)

Toral KJ, **Sacco JC**. Identification and Sequencing of the GSTP1 gene and transcript(s) in dogs. Poster presented at the 2014 Des Moines University Research Symposium, Des Moines, IA, December 4th, 2014. Winning poster in the biomeical research category. (local)

Ty Drake, Gabrielle Dillon, Sophia Smith, and **Kimberly Huey** (Mentor). Can Exercise Reverse the Effects of Aging on Muscle Function and Cardiovascular Fitness? Drake Undergraduate Research Symposium, April 10, 2014. (local)

Zieminski JJ, Vollmer LE, **Gentry BG**, Pharmacological Enhancement of Ant-Viral DNA Polymerase Inhibitors via Reduction of Endogenous Nucleoside Triphosphates. Des Moines University Research Symposium (2014). (local)

TECHNICAL OR CONSULTANT REPORTS: (1)

Rovers JP, **Kjos A**. Consultant's report to Hanoi University of Pharmacy on Curricular Change. May 2014

BOOKS CHAPTERS: (2)

Koenigsfeld C, **Eastman D**, **Fornoff A**. "Headache". NAPLEX Review Guide. 2nd edition. New York, NY: McGraw-Hill; 2014: 452-459.

Maki ED, Chapter 106 - Gout and Hyperuricemia. In: Schwinghammer TL, Koehler JM, 9th eds. Pharmacotherapy Casebook: A Patient-Focused Approach. 9th ed. New York: McGraw-Hill, April 2014.

BOOKS: (2)

Ihrig TI, **Wall GC**. Palliative Care and Symptom Management. 2014. Mehava Media, Des Moines, IA and Amazon Digital Publishing

Welty TE. Zonisamide. In Wyllie E ed. The Treatment of Epilepsy 4th and 5th ed. Lippincott Williams & Wilkins. Philadelphia, 2014.

2014 SCHOLARSHIP REPORT

REVIEWING ACTIVITIES:

Andreski M. AJHP

Andreski M. Research in Social and Administrative Pharmacy

Bell, E. Annals of Pharmacotherapy

Bell, E. Journal of Pediatric Pharmacology and Therapeutics

Bottenberg M. American Journal of Pharmacy Education

Bottenberg M. Currents in Pharmacy Teaching and Learning

Bottenberg M. The Journal of the Iowa Pharmacy Association

Bottenberg M. The Annals of Pharmacotherapy

Caligiuri F. Currents in Pharmacy Teaching and Learning

Chesnut, R. Currents in Pharmacy Teaching and Learning

Clarke C. American Journal of Pharmaceutical Education

Clarke C. Currents in Pharmacy Teaching and Learning

Dy-Boarman E. American Journal of Pharmaceutical Education

Dy-Boarman E. Annals of Pharmacotherapy

Eastman D. Journal of the Iowa Pharmacy Association

Gentry B. Antimicrobial Agents and Chemotherapy

Gentry B. Antiviral Research

Grady S. Currents in Pharmacy Teaching and Learning

Haack S. Currents in Teaching and Learning

Harrell J. Medicine & Science in Sports & Exercise.

Huey K. Acta Physiologica

Huey K. Journal of Physiology

Huey K. Muscle Nerve

Huey K. American Journal of Physiology

Huey K. Journal of Applied Physiology

Johnson JF. Currents in Pharmacy Teaching and Learning

Kjos, A. Currents in Pharmacy Teaching and Learning

Kjos, A. Innovations in Pharmacy

Kjos, A. Research in Social and Administrative Pharmacy

Kjos, A. Journal of the American Pharmacists Association

Koenigsfeld C. Journal of the American Pharmacist Association

Mahajan P. Archives of Toxicology

Mahajan P. J. Inflammation

Mahajan P. Pharmacogenomics

Meisner A. Currents in Pharmacy Teaching and Learning

Mengesha A. Journal of Pharmaceutical Sciences (J. Pham. Sci)

Mengesha A. Pharmaceutical Research (Pharm Res); 1 review

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Pandit, N. International Journal of Pharmaceutics
Pandit, N. Pharmaceutical research
Phillips CR. Research and Social and Administrative Sciences
Rovers J. Currents in Pharmacy Teaching
Rovers J. JAPhA;
Rovers J. Nigerian Journal of Clinical Practice
Sacco J. Journal of Biochemical and Molecular Toxicology
Soltis R. Amer Journal of Pharm Education
Stelter N. JAPhA
Ulrich E. American Journal of Pharmacy Benefits
Ulrich E. Journal of Pharmaceutical Health Services Research
Wall, G. American Journal of Health-System Pharmacy
Wall, G. Annals of Allergy, Asthma, and Immunology 1
Wall, G. BMC Family Practice 1
Wall, G. International Journal of Pharmacy Practice 2
Wall, G. Pharmacotherapy
Wall, G. World Journal of Gastroenterology
Welty T. Epilepsy Research
Welty T. Current Medical Research and Opinion:
Welty T. Epilepsy and Behavior
Welty T. The Annals of Pharmacotherapy
Wrenn C. Mammalian Biology
Wrenn C. Current Medical Research and Opinion

REVIEWER FOR PODIUM or POSTER SESSIONS:

Clarke C. American Association of Colleges of Pharmacy (poster for Annual meeting)
Clarke C. American Pharmacists Association (poster for Annual meeting)
Dy-Boarman E. Poster reviewer, Drake University CPHS Health Sciences Capstone Project Posters
Huey K. DMU Research Symposium 2014, poster judge
Huey K. DUCURS 2014 poster judge
Kjos A. American Pharmacists Association, APRS-ESAS Contributed Research Reviewer (podium/posters)
Kjos A. International Social Pharmacy Workshop 2014 – Reviewer of new investigator posters
Lehman N. APhA Annual Meeting poster judge
Mengesha A. AAPS
Meyer KS. ASCP Annual Meeting Posters
Mobley-Bukstein W. Modules 4,5,8 of the CEI Immunization Training Course.
Mobley-Bukstein W. APhA Annual Meeting's poster presentations
Percival K. DMU Research Symposium (posters) in December 2014.

2014 SCHOLARSHIP REPORT

Phillips CR. SLDS Poster Grader, Drake University

Sacco J. Drake University Conference for Undergraduate Research in the Sciences (DUCURS), April 2014

Sacco J. Poster Presentations, DMU Research Symposium, December 2014, 3 reviews

Torry R. Health Sciences Senior Capstone Posters, Drake University (Posters)

Torry R. DMU Research Symposium, Graduate/Post-Doc competition (Posters)

Torry R. Iowa and Missouri Physiological Society, Abstract/Poster judge, Graduate/Post-Doc competition

Welty T. American College of Clinical Pharmacy Annual Meeting

REVIEWER FOR GRANTS/AWARDS:

Clarke C. American Pharmacists Association Foundation Incentive Grant Program

Huey K. David Bruce Awards Undergraduate Research Awards for undergraduate students attending Experimental Biology meeting.

Huey K. Frontiers in Physiology Fellowship Awards for high school teachers

Huey K. ADI Instruments Macknight Early Career Innovative Educator Award

Huey K. Caroline tum Suden/Frances A. Hellebrandt Professional Opportunity Award for graduate students and postdoctoral fellows attending Experimental Biology Meeting.

RESEARCH GRANTS AND CONTRACTS: (23 NEW)

Extramural (11)

Title: Impact of Student Pharmacist Education on Pneumococcal Vaccination Rate in Patients attending a Walk-In Clinic

Sponsor: Pfizer Pharmaceuticals

Start date/completion date: 9/14-9/16

Direct Costs: \$258,404

Role: **Koenigsfeld CF, Lehman NA, Wall GC**, Sheesley B, Smith HL. (Co-investigators)

Title: Impact of Nanotechnology in Design and Development of Triggerable Drug Delivery Systems for Smart Medicine.

Sponsor: Iowa NASA EPSCoR;

Start date/completion date: Jan. 2014 – Dec. 2014

Direct Costs: \$15,000

Role: **Mengesha A.** (Principle Investigator) Co-PI: **Pramod B Mahajan**

Title: Lipid crystallization and effect of moisture on crystalline arrangement of monoglycerides in smart drug delivery system.

Sponsor: Better Futures for Iowans;

Start date/completion date: Oct. 2014 – Jan. 2015,

Direct Costs: \$700.00

Role: **Mengesha A.** Principle Investigator

Title: “A Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy”

Sponsor: Iowa Pharmacy Association sub-award of NACDS funding

Start date/completion date: 7/1/14-6/30/16

Direct Costs: \$10,000

Role: **Andreski M.** Primary Investigator and Research Consultant.

2014 SCHOLARSHIP REPORT

Title: Satisfaction Survey for “A Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy”

Sponsor: NABP Region V

Start date/completion date: 8/1/14 -12/31/15

Direct Costs: \$3000

Role: **Andreski M.** Primary Investigator

Title: Pharmacological Enhancement of Anti-Viral Chemotherapy for the Treatment of Herpes Virus Infections.

Sponsor: Iowa NASA EPSCoR Research Infrastructure Development Program Research Grant,

Start date/completion date: Jan 2014-Dec 2014.

Direct Costs: \$15,000

Role: **Gentry B.** Principle Investigator.

Title: Infection Mitigation during Space Flight: Combination Pharmacotherapy to Combat Herpes Viral Infections, Curtail Drug Resistance, and Decrease Incidence Rates of Adverse Effects.

Sponsor: NASA Iowa Space Grant Consortium Base Program at Drake University,

Start date/completion date: June 2014-May 2017.

Direct Costs: \$62,000

Role: **Gentry B.** Principle Investigator, **R Torry** (collaborator)

Title: Next Top Entrepreneur Competition (2015)

Sponsor: Target

Start date/completion date: Feb. 2015

Direct Costs: \$3,000

Role: **Chesnut R.** Principal Investigator

Title: Internship Program for Independent Pharmacy (2014-2015).

Sponsor: Pharmacists Mutual

Start date/completion date: 2014-15

Direct Costs: \$5,000

Role: **Chesnut R.** Principal Investigator

Title: Internship Program for Independent Pharmacy

Sponsor: McKesson

Start date/completion date: 2014-15

Direct Costs: \$20,000

Role: **Chesnut R.** Principal Investigator

Title: Student Leadership Development Series

Sponsor: Walmart

Start date/completion date: 2014-15

Direct Costs: \$3,000

Role: **Chesnut R.** Principal Investigator

Intramural: (12)

Title: Travel grant to Ethiopia to finalize partnership with Addis Ababa University (AAU).

Sponsors: Drake International Grant and CPHS

Start date/completion date: Feb. 2014,

Direct Costs: \$5,935.00 (Drake International Grant) and \$6,800.00 (CPHS) Total cost = \$12,534.00

Role: **Mengesha A.** Participant. Other participants include: **D. Soltis, F. Caligiuri, P. Mahajan and W. Duncan**

Title: Support for ACCP Meeting Attendance

Sponsor: Drake Faculty Development Grant

Start date/completion date: April 2014

Direct Costs: \$1,705

Role: **Haack S.** Faculty development

2014 SCHOLARSHIP REPORT

Title: Effects of a Pre-Exercise Supplement on Anaerobic Power and Blood Lactate Levels in Males and Females,

Sponsor: Drake University Research Grant

Start date/completion date: 7/1/2014-6/30/2015

Direct Costs: \$2,800

Role: **Huey K.** Principal Investigator

Title: Periprocedural Antithrombotic Practices Among Dental Practices in Iowa

Sponsor: Harris Research Endowment

Start date/completion date: 12-10-2014 to 5-15-2015

Direct Costs: \$3100

Role: **Miesner A.** Principle Investigator

Title: Understanding role of metalloprotease activity in mammalian DNA repair

Sponsor: Harris Research Endowment

Start date/completion date: (7-1-2014 to 6-30-2015)

Direct Costs: \$1,200

Role: **Mahajan P.** (P.I.)

Title: International Social Pharmacy

Sponsor: CPHS – Jorndt Development Endowment Fund

Start date/completion date: August 2014

Direct Costs: \$1,174.00

Role: **Kjos A.** Principle Investigator

Title: Experiential Service Learning Mini-grant for Courage League Sports i-Pad developments

Sponsor: University Experiential Learning Committee: Service learning mini-grant

Start date/completion date: Summer 2014

Direct Costs: \$294.80

Role: **Beemer R.** Faculty Supervisor:

Title: Experiential Service Learning Mini-grant for Elder Concerns Calendar Project

Sponsor: University Experiential Learning Committee: Service learning mini-grant

Start date/completion date: Fall 2014

Direct Costs: \$394.80

Role: **Beemer R.** Faculty Supervisor

Title: Technology Use in Assessment in Pharmacy Skills & Applications

Sponsor: Drake Harris Research Grant

Start date/completion date: May 2014

Direct Costs: \$15,973

Role: **Haack S** PI, Co-investigator **Bryant G. Dy E, Caligiuri F, Mobley-Bukstein W, Bryant G, Bottenberg M, Fornoff A,** Saunders K, Majeran S.

Title: Effect of maternal genistein on socially transmitted olfactory memory

Sponsor: Harris Endowment

Start date/completion date: September 2014 - May 2015

Direct Costs: \$6,500

Role: **Wrenn C.** Principal Investigator

Title: Introduction to Pharmaceutical Sciences Assistantship,

Sponsor: Drake University Undergraduate Assistantship Program.

Start date/completion date: 7/1/2014 - 6/1/2015

Direct Costs: \$1650

Role: **Soltis R.** Principal Investigator

2014 SCHOLARSHIP REPORT

UNDERGRADUATE RESEARCH PROJECTS: (37)

Arissa Ausman (P3)

Research Mentor: **Huey, K.**

Effects of a Pre-Exercise Supplement on Anaerobic Power and Blood Lactate Levels in Males and Females.

Product(s): poster presentations - DUCURS (April 2015).

Paul Choeun (BS Health Sci-Pharm Sciences)

Research Mentor: **Mengesha A.**

Formulation and optimization of solubility and stability in nifedipine-loaded solid lipid nanoparticles created by solvent evaporation method

Product: DUCURS poster, 2014

Carolyn M. Crust (UM Pharmacy Student)

Research Mentor: **Kjos A**

An Evaluation of an Adolescent Education Intervention on Prescription Drug Safety

Product: University of Minnesota Research Seminar, Podium Presentation - "Best Podium Award" winner

Anh-ton Dang, (PharmD)

Research Mentor: **Mengesha A.**

Thermosensitive monoglycerides blend for local drug delivery

Product: 2014 Great Midwestern Regional Space Grant Consortia Meeting, Sept. 19 – 20, 2014, Des Moines, IA

Gabrielle Dillon (HSCI Sr)

Research Mentor: **Huey, K.**

Age-related changes in muscle function and cardiorespiratory fitness in male and female mice.

Product(s): poster presentations - DUCURS (April 2014 and April 2015), Experimental Biology (March 2015).

Gabrielle Dillon (HSCI Sr)

Research Mentor: **Huey, K.**

Effects of Energy Gel Carbohydrate Composition and Gender on Fuel Metabolism and Blood Glucose Levels During Exercise

Product(s): poster presentations - DUCURS (April 2014)

Ty Drake (P3)

Research Mentor: **Huey, K.**

Age-related changes in muscle function and cardiorespiratory fitness in male and female mice.

Product(s): poster presentations - DUCURS (April 2014 and April 2015), Experimental Biology (March 2015).

Bradley Duwe (SCI Sr)

Research Mentor: **Huey, K.**

Effects of a Pre-Exercise Supplement on Anaerobic Power and Blood Lactate Levels in Males and Females.

Product(s): poster presentations - DMU Research Symposium (December 2014), DUCURS (April 2015).

Alexander Herold (HSCI 2014 grad)

Research Mentor: **Huey, K.**

Effects of statin treatment on muscle adaptation during chronic overload.

Product(s): poster presentations - DUCURS (April 2014).

Yutong Kang (HSCI)

Research Mentor: **Sacco J.**

Metabolism of BDCRB by human liver and intestinal microsomes

Product: TBD

2014 SCHOLARSHIP REPORT

Haley Kessinger (PharmD)

Research Mentor: **Mengsha A.**

Thermal Analysis of Lipid Crystallization and Effect of Moisture on Crystalline arrangement of Monoglycerides, 2014 DUSCI summer fellowship (2014).

Products: 2014 Great Midwestern Regional Space Grant Consortia Meeting, Sept. 19 – 20, 2014, Des Moines, IA
AAPS 2014 Annual Meeting and Exposition, Nov. 02 – 06, 2014, San Diego, CA
DUSCI oral presentation, Oct. 3rd, 2014

Justin Kochanski

Research Mentor: **Sacco J.**

Sequencing and in-silico analysis of canine GSTA1 and GSTM1 genes and transcript(s).

Product: DUCURS (April 2014), Winning post

Dillon Krotz (JR, AS)

Research Mentor: **Mengsha A.**

Simultaneous determination of doxazosin mesylate and finasteride by RP-HPLC

Product: TBD

Cory Langreck (HSCI)

Research Mentor: **Wrenn C.**

Effect of maternal genistein on socially transmitted olfactory memory

Product: DUCURS poster.

Wes Lyons, HSCI

Research Mentor: **Miesner A.**

Educating medical residents through podcasts developed by PharmD students

Product: TBD

Kathryn Marwitz, pharmacy

Research Mentor: **Stelter N.**

Intercollegiate Collaboration Helps to Immunize Over 1,000 Iowa State University Students, Faculty and Staff

Products: poster at Iowa Pharmacy Association Annual Meeting, June 2014

Hallie Meyer, Health Sciences

Research Mentor: **Beemer R.**

Topics in Health Sciences independent study research: Comparison of isokinetic muscle performance in active, healthy males and females

Products: DUCURS poster April 2014 (co-presenter)

John Message - Pharmacy

Research Mentor: **Ulrich E.**

Quantifying the Long-term Impact of Medicare Part D on Enrollees' Insurance Cost and Satisfaction

Product(s): Manuscript to be submitted in 2015

Yvette Mitchell, Pharmacy (P3)

Research Mentor: **Haack S.**

Diabetes Focus Groups at Primary Health Care

Product: Working on the manuscript; goal to submit to RSAP before Spring Break

Austin Moore (HSCI 2014 grad)

Research Mentor: **Huey, K.**

Effects of Energy Gel Carbohydrate Composition and Gender on Fuel Metabolism and Blood Glucose Levels During Exercise

Product(s): poster presentations - DUCURS (April 014)

2014 SCHOLARSHIP REPORT

Midhad Mrvoljak (HS-C)

Research Mentor: **Mengesha A.**

Effect of Temperature on Glyceryl Monooleat and Glyceryl Monostearate.

Product: TBD

Mary Shea O'Brien, Pharmacy

Research Mentor: **Gentry B.**

Combination Pharmacotherapy against HCMV as a means to reduce the advent of drug resistance and to curtail adverse effects

Products: DMU Research Symposium Poster (Dec 2014), DUSCI Summer Project

Quang Phan, Pharmacy

Research Mentor: **Gentry B.**

Elucidating the mechanism of action of deoxyribosylindole nucleoside analogs, novel therapeutics with activity against HCMV

Products: Peer-reviewed manuscript (see In Press)

Russell Pluhm (HSCI Sr)

Research Mentor: **Soltis R.**

Taster Status and Body Composition in College Students

Product(s): DUCURS poster (April 2014)

Elizabeth Radloff, (PharmD)

Research Mentor: **Mengesha A.**

Thermosensitive monoglycerides blend for local drug delivery

Product: 2014 Great Midwestern Regional Space Grant Consortia Meeting, Sept. 19 – 20, 2014, Des Moines, IA

Hannah Sauer, Pharmacy

Research Mentor: **Gentry B.**

Biosynthesis of MBX-2168 Triphosphate in Herpes-Virus Infected Cells.

Products: Invited Talk - DMU Research Symposium (Dec 2014), DUSCI Summer Project

Diana Schreier, Pharmacy

Research Mentor: **Gentry B.**

Elucidating the Mechanism of Action of PyroloPyrimidine Nucleoside Analogs, novel compounds that elicit an anti-viral effect against the Herpes family of viruses

Product: TBD

Duncan Smith, MPA Capstone project,

Research Mentor: **Fornoff A.**

Des Moines Compliance with ADA laws.

Product: MPA campus presentation, April 2014.

Hannah Stonewall (PharmD)

Research Mentor: **Mengesha A.**

Effect of moisture on the crystalline structure of pure monoglycerides

Products: 2014 Great Midwestern Regional Space Grant Consortia Meeting, Sept. 19 – 20, 2014, Des Moines, IA

126th Annual Meeting of the Iowa Academy of Science, IAS, April 11 – 12, 2014, Fort Dodge, IA

AAPS 2014 Annual Meeting and Exposition, Nov. 02 – 06, 2014, San Diego, CA

Keller Toral (PHARMD)

Research Mentor: **Sacco J.**

Identification and Sequencing of the GSTP1 gene and transcript(s) in dogs

Product: DMU Research Symposium (December 2014). Winning poster, biomedical research category

2014 SCHOLARSHIP REPORT

Laura Vollmer, Pharmacy

Research Mentor: **Gentry B.**

Improving Nucleoside Analog Pharmacotherapy against HCMV through Pharmacological Modification

Products: DMU Research Symposium Poster (Dec 2014)

Kaila Wechsler (HSCI 2014 grad)

Research Mentor: **Huey, K.**

Effects of Energy Gel Carbohydrate Composition and Gender on Fuel Metabolism and Blood Glucose Levels During Exercise

Product(s): poster presentations - DUCURS (April 2014)

Brett Wright, Health Sciences

Research Mentor: **Beemer R.**

Assessment of lower-extremity strength, functional capacity, and pain in subjects with PFPS

Products: DUCURS poster April 2014 (Comparison of isokinetic muscle performance in active, healthy males and females),

Brett Wright Health Sciences

Research Mentor: **Beemer R.**

Assessment of lower-extremity strength, functional capacity, and pain in subjects with PFPS: A review of the Research and Current Stud.

Product: Podium Presentation at 6th Annual Sports Medicine Conference on Prevention, Early & Appropriate Care of Injuries and Functional Limitations in Physical Activity and Sports Des Moines, IA.

Jeff Yu (HSCI)

Research Mentor: **Soltis R.**

Creating Consumer Health Information Pamphlets for College Students

Product(s): Senior Capstone Project

Di Zhang, (HSCI)

Research Mentor: **R. Torry and R. Beemer**

"Muscle activity of wrist movement during piano performance".

Product(s): Senior Capstone Project

JJ Zieminski, Pharmacy

Research Mentor: **Gentry B.**

Improving Nucleoside Analog Pharmacotherapy against HCMV through Pharmacological Modification

Products: DMU Research Symposium Poster (Dec 2014)