

June 21, 2018

Dear Colleagues:

The Drake College of Pharmacy and Health Sciences would like to provide you with a summary of its scholarly activities for *CY 2017*. Highlights of the attached report include:

- 48 PEER-REVIEWED ARTICLES
- 24 PEER-REVIEWED PODIUM PRESENTATIONS
- 44 PEER-REVIEWED POSTERS
- 15 INVITED ARTICLES/COLUMNS
- 49 INVITED PODIUM PRESENTATIONS
- 21 INVITED POSTERS
- 6/2 BOOK CHAPTERS/BOOKS
- 66 UNDERGRADUATE/PROFESSIONAL STUDENT RESEARCH PROJECTS
- 27 NEW GRANTS/CONTRACTS TOTALING **\$125,974 ***

*Does not include multi-year funding with start dates prior to 2017.

All of the above items increased from 2016.

This report does not include the many local, regional and national service accomplishments, practice advancements, or instructional work of the faculty. The faculty engaged in over **323,000** student contact hours in *CY 2017*.

Regards,
Charles R. Phillips
Associate Dean for Curriculum and Assessment

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

CPHS SCHOLARSHIP SUMMARY

CALENDAR YEAR 2017

(COMPLETED WORK)

PEER REVIEWED ARTICLES: (48¹)

Allouch S, **Munusamy S**. Metformin attenuates albumin-induced alterations in renal tubular cells in vitro. *J Cell Physiol.* 2017; 9999:1-12. <https://doi.org/10.1002/jcp.25838>

Balakrishnan, G, Landeen C, **Dy-Boarman EA, Wall GC**. Outcomes associated with a multiplex PCR system on sputum specimens (FilmArray Respiratory Panel) in a large tertiary inpatient hospital population. *Journal of Academic Hospital Medicine* 2016; 8: <http://medicine.missouri.edu/jahm/outcomes-multiplex-pcr-respiratory-sample-testing-hospital-inpatients/>.

Berg M, **Welty TE**, Gidal BE, Diaz FJ, Krebill R, Szarflarski JP, Dworetzky BA, Pollard JR, Eller EJ, Jiang W, Jiang X, Privitera MD. Equivalence between generic and branded lamotrigine in people with epilepsy: a single-dose randomized study. *JAMA Neurology.* 2017;74(8):919-926.

Bzowycykj, A, Frei, N, Isaacs, D, **Mobley-Bukstein, W**; BC-ADM versus CDE; which credential is for you? American Pharmacists Association Diabetes Special Interest Group Resource Document, July 2017.

Caligiuri FJ*, **Ulrich EE**, Welter KJ. Pharmacy student knowledge, confidence and attitudes towards medical cannabis and curricular coverage. *American Journal of Pharmacy Education* 2017: e-View.

Castelli MR, Saint CA, Nuziale BT, Stern GM, Stacy ZA, Crannage AJ, **Pitlick JM**. Effect of a rivaroxaban assistance kit (R-PAK) for patients discharged with rivaroxaban: a randomized controlled trial. *Hosp Pharmacy.* 2017. Online publication.

Cornell, D.J., **Gnacinski, S.L.**, Zamzow, A., Mims, J., & Ebersole, K.T. (2017). Measures of health, fitness, and functional movement among firefighter recruits. *International Journal of Occupational Safety and Ergonomics*, 23, 198–204.

*Cornell, D.J., ***Gnacinski, S.L.**, Meyer, B.B., & Ebersole, K.T. (2017). Changes in measures of health and fitness in firefighter recruits: An observational cohort study. *Medicine & Science in Sports & Exercise*, 49(11), 2223–2233.
*denotes shared first authorship.

Craft S, Ekena J, **Sacco J**, Luethcke K, Trepanier L. 2017. A 6 bp deletion variant in a novel canine glutathione-S-transferase gene (GSTT5) leads to loss of enzyme function. *J Vet Intern Med.* 31:1833-1840.

Dy-Boarman E, Diehl B, Mobley-Bukstein W, Bottenberg MM, Bryant G, Sauer H. Comparison of faculty and student self-assessment scores of aseptic technique skills and the impact of video review on self-awareness for second-year pharmacy students. *Currents in Pharmacy Teaching and Learning.* 2017 Nov;9(6).

Dy-Boarman EA, Bryant GA, Herring MS. Impact of debates on student perceptions and competency scores in the advanced pharmacy practice setting. *Curr Pharm Teach Learn.* 2017; 29 Sept [epub ahead of print].

Dy-Boarman EA, Nisly SA, Costello TJ. It's no debate, debates are great. *Curr Pharm Teach Learn.* 2017; 29 Sept [epub ahead of print].

Dy-Boarman EA, Nisly SA, Martin D. Use of a health screening and education event to change student attitudes towards the elderly. *Curr Pharm Teach Learn.* 2017;9(1):101-107.

El Gamal H, Eid AH, **Munusamy S**. Renoprotective effects of aldose reductase inhibitor epalrestat against high glucose induced cellular injury. *BioMed Research International*, 2017, Volume 2017, Article ID 5903105, 11 pages. <https://doi.org/10.1155/2017/5903105>

¹ **Student co-authors are underlined**

El Gamal H, **Munusamy S**. Aldose Reductase as a drug target for treatment of diabetic nephropathy: promises and challenges. *Protein and Peptide Letters*. 2017, 24(1): 71-77.

Gnacinski, S.L., Arvinen-Barrow, M., Brewer, B.W., & Meyer, B.B. (2017). Factorial validity and measurement invariance of the Perceived Susceptibility to Sport Injury scale. *Scandinavian Journal of Medicine and Science in Sport*, 27, 754-761.

Gnacinski, S.L., Massey, W.V., Hess, C.W., Nai, M., Arvinen-Barrow, M., & Meyer, B.B. (2017). Examining stage of change differences in NCAA student-athletes' readiness for psychological skills training. *The Sport Psychologist*, 31, 356-368.

Grady SE, Marsh TA, Tenhouse A, Klein K. Ketamine for the treatment of major depressive disorder and bipolar depression: a review of the literature. *Ment Health Clin*. 2017;7(1):16-23.

Gubbins PO, Klepser ME, Adams AJ, Jacobs DM, **Percival KM**, Tallman G. Potential for Pharmacy-Public Health Collaborations using Pharmacy based Point of Care Testing Services for Infectious Diseases. *Journal of Public Health Management & Practice*. 2017 Nov/Dec;23(6):593-600. doi: 10.1097/PHH.0000000000000482.

Haack, S, Fornoff, A, Caliguirri, F, Dy-Boarman, E, Bottenberg, M, Bryant, G, Mobley-Bukstein, W, Bryant, A; Impact of Electronic vs Paper Rubric Assessment of Patient Counseling in a Skills-Based Lab. *Currents in Pharmacy Teaching and Learning* 9 (2017) 1117–1122

Haight RC, Kolar C, **Nelson MH**, Fierke KF, Sucher BJ, Janke KK. Assessing Emotionally Intelligent Leadership in Pharmacy Students. *Am J Pharm Educ*. 2017;81(2):Article 29.

Haines SL, **Dy-Boarman EA**, Clifford KM, et al. Methods used by US colleges/schools of pharmacy to prepare student pharmacists for careers in academia. *Am J Pharm Educ*. 2017;81(1):Article 6.

Haines SL, Summa MA, Peeters MJ, **Dy-Boarman EA**, Boyle JA, Clifford KM, Willson MN. Toolkit for US colleges/schools of pharmacy to prepare learners for careers in academia. *Curr Pharm Teach Learn*. 2017;9(5):750-762.

Hammad A, Ravindran S, Khalil A, **Munusamy S**. Structure-activity relationship of piperine and its synthetic amide analogs for therapeutic potential to prevent experimentally-induced er stress in vitro. *Cell Stress and Chaperones*. 2017, 22(33): 417-428.

Johnson KL, Alsharif NZ, **Rovers J**, Connor S, White ND, Hogue MD. Current recommendations in global/international short-term pharmacy service trips (PSTS). *Am J Pharm Ed*. 2017;81(2):Article 23

Koenigsfeld C, Saylor M, Smith H, **Meyer K, Lehman N, Logemann C, Bottenberg M, Bryant G, Obermark M**. Retrospective evaluation of ASCVD risk and statin therapy need in nondiabetic patients based on the 2013 ACC/AHA Cholesterol Guidelines. *J Pharm Pract*. 2017;30(3):300-305.

Krotz, Dillon, and **A. Mengesha**. Development and validation of a reversed-phase HPLC method for simultaneous determination of doxazosin mesylate and finasteride. *Acta Chromatographica*, 2017; 29(3): 309 – 324. (doi:10.1556/1326.2017.29.3.01).

Lange KN, McKay D, **Gentry BG**, Franko J. Antimicrobial Properties of Perfusate Fluid after CS-HIPEC with Mitomycin C. *Annals of Surgical Oncology* 24: 3837-3841 (2017).

Meyer, B.B., Markgraf, K., & **Gnacinski, S.L.** (2017). Examining the merit of grit in women's soccer: Questions of theory, measurement, and application. *Journal of Applied Sport Psychology*, 29, 353-366.

Miesner AR, Lyons W, and McLoughlin A. Educating medical residents through podcasts created by PharmD students. *Currents in Pharmacy Teaching and Learning*. 2017;9:683-8.

Nelson M, Tweddell S. Leading Academic Change: Experiences of Academic Staff Implementing Team-Based Learning. *Student Engagement in Higher Education Journal*;2017:1(2)

Newman, N. & Weiss, W. College athletes' perceptions of social support and athletic trainer-coach conflict. *J Athl Enhanc*, 2017;6(6); DOI: 10.4172/2324-9080.100027.

Newman, N. & Weiss, W. Relationship Between Demographic variables and collegiate athletes' perceptions of social support from head coaches.. *Int J Sport Sci Coach*. 13(3), 343-48. 2017.

Nisly SA, Kingdon LK, Janzen KM, **Dy-Boarman EA**. Using debates to mimic clinical discussion in experiential education. *Inov Pharm*. 2017;8(4):9.

Pasha M, Eid AH, Eid AA, Gorin Y, and **Munusamy S**. Sestrin2 as a novel biomarker and therapeutic target for various diseases. *Oxidative Medicine and Cellular Longevity*, 2017, Volume 2017, Article ID 3296294, 10 pages. <https://doi.org/10.1155/2017/3296294>

Percival KM. Antibiotic Classification and Indication Review for the Infusion Nurse. *Journal of Infusion Nursing*. 2017; 40(1). 55-63. DOI: 10.1097/NAN.0000000000000207.

Ravindran S, Kuruvilla V, Wilbur K, **Munusamy S**. Nephroprotective effects of metformin in diabetic nephropathy. *J Cell Physiol*. 2017, 232 (4), 731-742.

Rovers J, Mages M. A drug supply model for ambulatory care in rural and remote Australia. *BMC Health Serv Res*. 2017;17:677

Roy NT, Ulrich EE*. Quantifying the relationship between patient characteristics and involvement in developing and implementing a treatment plan. *Drug, Healthcare and Patient Safety*. Jan 2017; 2017(9): 1-8.

Sacco J, Ruplin A, Skonieczny P, Ohman M. 2017. Polymorphisms in the canine monoamine oxidase A (MAOA) gene: identification and variation among five broad dog breed groups. *Canine Genetics and Epidemiology* 4:1.

Sacco J, Mann, S, Toral, K. 2017. Single nucleotide polymorphisms and microsatellites in the canine Glutathione S-transferase pi 1 (GSTP1) gene promoter. *Canine Genetics and Epidemiology*. 4:9.

Schuring CA, Mountjoy LJ, Priaux AB, Schneider RJ, Smith HL, **Wall GC**, Kadaria D, Sodhi A. Atrio-Esophageal Fistula: A Case Series and Literature Review. *Am J Case Rep* 2017; 18:847-854. DOI: 10.12659/AJCR.903966

Solomon D, Gupta N, **Mulla NS**, Shukla S, Guerrero YA, Gupta V. Role of In Vitro Release Methods in Liposomal Formulation Development: Challenges and Regulatory Perspective. *AAPS J*. 2017 Sep 18;1-13.

Stonewall HD., **Kessinger HM**, and **AE Mengesha** (2017). Effect of moisture on the thermoresponsive properties of binary mixtures of monoglycerides for triggerable drug delivery systems. *AAPS PharmSciTech*. 2017; 18(7): 2598 – 2609. (doi:10.1208/s12249-017-0724-2)

Ulrich EE*, Grady SA, Vonderhaar JM, Ruplin AJ. Proposed Model for Translational Research at a Teaching-Intensive College of Pharmacy. *Research in Social and Administrative Pharmacy* August 2017: 1-5.

Ulrich EE*, Vonderhaar J, Tenhouse A. Characteristics of Those Older Adults Who Consume Alcohol While on Antidepressants: Critical Counseling. *The Consultant Pharmacist*. July 2017; 32(7): 408-415.

Ulrich EE*, Caligiuri FJ, Pape ZA, Morrett SW. Qualitative Analysis of Pharmacists' Understanding, Attitudes, and Perceived Needs if Provider Status Were to Pass. *Journal of the Iowa Pharmacy Association*. March 2017; 73(1): 24-31.

Williams E, Miesner AR, Beckett E, and **Grady S**. "Pimping" in Pharmacy Education: A Survey and Comparison of Student and Faculty Views. *J Pharm Pract*. 2017; Online ahead of print: DOI: 10.1177/0897190017715393

PEER REVIEWED PODIUM PRESENTATIONS: (24)

Andreski M, An Initiative to Enable Pharmacists to Provide More Patient Care Services by Using Technician Verification of Prescription Filling: The Iowa New Practice Model. TED Style presentation at the 163rd Annual

Meeting of the American Pharmacists Association, Innovative Practice Research Forum, San Francisco, CA, March 25 2017.

Boyle C., **Chesnut R.**, Crabtree, B., Zgarrick, D. Interim Appointments: Storm Warnings-Are You Prepared? Presented at: Administrative Services Section meeting, American Association of Colleges of Pharmacy, July 2017, Nashville, TN.

Bryant GA. Advances in Insulin and Insulin Combination Therapies: Opportunities for Convenient Care Providers to Improve Patient Outcomes. Presented at the Convenient Healthcare and Pharmacy Collaborative Conference. Orlando, FL. July 2017.

Clarke C, Sedlacek R, **Oates B.** Poverty Simulations Impact on Pharmacy Student Attitudes Toward Poverty, Extended Workshop, 2017 Iowa Governor's Conference on Public Health, April 11, 2017.

Lehman, N. Guideline Update Series: Osteoporosis. Peer-reviewed continuing education webinar developed September 2017 Available at: <http://ceimpact.com/Home/Index#Relicensure>

Lindmark, M., Anderson, E., Larsen, A., Lancaster, H., Sienkiewicz, J., Senteza, J., Gutierrez, C., Levi, P., & Marvin, S. (2017, October). Water quality and public health in Uganda. Presented at the 9th Annual Heartland Global Health Conference in Des Moines, IA.

Griffiths, Y. & Urish, C. (October 6, 2017). Workplace Incivility: Zapping Productivity, Self Esteem, and Team Cohesiveness. Iowa Methodist Medical Center. Des Moines, IA.

Gutierrez, C. (2017, June). Health literacy: Strategies to communicate your health messages. Presented at the HOSA International Conference in Orlando, FL.

Gutierrez, C. (2017, June). Undergraduate Health Sciences: Inter-professional pathways to accelerate into health careers. Presented at the HOSA International Conference in Orlando, FL.

Gutierrez, C., Senteza, J., Levi, P., Weide, A., Lindmark, M., LeBlanc, H., & Kisch, K. (2017, April). Global pressing issues grant project: Assessing, collaborating, and empowering to improve water quality in rural Uganda. Presented at the 4th Annual Nelson Institute Conference on Global Affairs in Des Moines, IA.

McFadgen K, **Mahajan P**, and Jensen, N (2017) Feasibility of Applying Pharmacogenomic Testing in Trauma & Acute Care Surgery: A Case Report. podium presentation at the Annual Postgraduate Surgery Conference, Carver College of Medicine, University of Iowa, Iowa City, IA on November 10, 2017

McGuire, J.L., Woodruff, A., Iacono, J., Meadows, A.L., **Redman, C.M.**, Meachen, J., 2017, Microfauna of Natural Trap Cave: Taphonomic analyses indicate a mixed predator assemblage likely resulting from Neotoma (Woodrat) gathering: Journal of Vertebrate Paleontology Abstracts of Papers, v. 37 no. 3 supplement. Talk presented at: Society of Vertebrate Paleontology's 77th Annual Conference; August 23-26, 2017; Calgary, Alberta

Meyer, KS. Pharmacist Drug Interaction Interventions: Why It's a Bit Like Fishing. Podium presentation (with Ruth Emptage) at the ASCP Annual Meeting, Kissimmee, Florida, November 2017.

Mobley-Bukstein W. PharmTalk 2017; Diabetes and Health Coaching, American Pharmacists Association Annual Meeting March 2017, San Francisco, CA.

Mulla N. Development and characterization of a nanoparticulate formulation for co-administration of cancer vaccine and adjuvants- Presented at- International Conference and exhibition on Pharmaceutical Science and Pharmacognosy, Barcelona, Spain- November 2017

Mulla N. Adjuvanted allogeneic breast cancer vaccine: Maximizing cancer treatment by modulating the host immunity. Presented at- World congress on Immunology, Immunity, Inflammation and immunotherapies- Atlanta, Georgia- November 2017

Munusamy S. Integrating Instructions. Kuwait International Pharmacy Conference 2017 - Second Advanced Pharmacy Education Forum GCC-MENA; February 11, 2017; Kuwait.

Munusamy S. Drugs and Depression. WHO Day: Let's Talk Depression; April 5, 2017; College of Health Sciences, Qatar University, Doha, Qatar

Munusamy S. Is Obesity a Risk Factor for Kidney Disease? The obesity epidemic: Discussing the global health crisis. (Webinar) EuroSciCon; April 19, 2017; London, UK

Munusamy S, Sankaralingam S, A Snap-shot of Drug Interactions. Continuing Professional Development; April 25, 2017; Qatar University, Doha, Qatar

Nelson M, Tweddell S, Vries JD, Vos J. Developing Communities of Practice to Support TBL Practitioners and Grow Networks Around the World. Workshop presentation at the Team-Based Learning Collaborative Annual Meeting, Orlando, Florida. March 2017.

Sedlacek R, Kieran L, **Haack S**, Yee E, Rohach M, Crowe C. Service-Learning Faculty Development Reconsidered: Using a Professional Learning Community and Travel Seminar to Deepen Student Engagement. International Association for Research on Service-Learning and Community Engagement Annual Meeting. Galway, Ireland. September 2017.

Shenoy P, Haack S, Beckett R, Laughtin-Dunker K, Perkins S, Bai S, Redwanski J. Challenges and Solutions in Library Information Sciences. Library and Information Sciences Section Presentation at AACP Annual Meeting. Nashville, Tennessee. July 2017.

Stelter N. Make Every Encounter Count: Motivational Interviewing for Pharmacists CEImpact CE Webinar (recorded) August 2017

PEER REVIEWED POSTERS: (44)

Andreski M, Myers M, Pudlo A, Gainer K Expanding the Scope of Pharmacies Using Tech-Check-Tech: The Iowa New Practice Model Poster presented at the Iowa Pharmacy Association 2016 Annual Meeting, Iowa City, IA, June 16, 2017.

Bowen, S., Bruns, A., Jameson, A., McDonough, M., Nave, M., Prevo, C. What are the factors that influence occupational engagement for residents of long-term care facilities? Presented at: Iowa Occupational Therapy Association Annual Conference; October 7-8, 2017; Des Moines, Iowa.

Burns A, Busch M, **Gentry BG,** Activation of Novel Prodrugs to Combat Herpes Virus Infections. Des Moines University Research Symposium (2017).

Countey H, Steinbronn C, Grady SE. Changing student attitudes and perceptions toward opioid use disorder. Presented at the Annual Meeting of the College of Psychiatric and Neurologic Pharmacists. Phoenix. April 2017.

Clarke C, Schott K. Integrating CPD into the APPE Preparation Process. American Association of Colleges of Pharmacy 2017 Annual Meeting, Nashville, Tennessee, July 16, 2017.

Do, A and A Mengesha, Fabrication of 3D Printed Suppositories for Individualized Drug Delivery: Evaluating Potential Polymers and Software. Poster presented at: DMU Research Symposium, Dec. 7, 2017, Des Moines, IA.

Ebersole, K.T., Cornell, D.J., & **Gnacinski, S.L.** (2017, June). Impact of a firefighter recruit training academy on movement quality and balance ability. Poster presented at the annual meeting for the American College of Sports Medicine, Denver, CO, USA.

Glasow M and **A Mengesha**, Development of a Fixed-Dose Combination Therapy of Doxazosin and Finasteride for the Treatment of Benign Prostate Hyperplasia: Stability and Compatibility Studies. Poster presented at: 129th Annual Meeting of the Iowa Academy of Science (IAS), April 21-22, 2017, Cedar Falls, IA.

Glasow M and **A Mengesha**, Development of a Fixed-Dose Combination Therapy of Doxazosin and Finasteride for the Treatment of Benign Prostate Hyperplasia: Stability and Compatibility Studies, Poster presented at: 14th Annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS), April 13, 2017, Des Moines, IA.

Gnacinski, S.L., Ebersole, K.T., Cornell, D.J., & Meyer, B.B. (2017, June). An integrated perspective on firefighter recruit academies: Examining the sustainability of fitness gains. Poster presented at the annual meeting for the American College of Sports Medicine, Denver, CO, USA.

Godwin, K and **Huey, KA**. AICAR Treatment Does Not Prevent Increases in Exercise Capacity or Muscle Heat Shock Protein 25 with Treadmill Training in Mice. Experimental Biology, April 22-26, 2017, Chicago, IL

Groeneveld LR, Hoerres AJ and **A Mengesha**, Evaluating the Cytotoxicity of Nanomagnets Suspended in GMO:GMS Mixture on HTB-19 Cells. Proceedings of the 129th Annual Meeting of the Iowa Academy of Science, April 21- 22, 2017, Cedar Falls, IA.

Hess, C., **Gnacinski, S.**, & Meyer, B. (2017, October). Injury rehabilitation in sport: From abstraction to application. Poster presented at the annual meeting of the Association for Applied Sport Psychology, Orlando, FL, USA.

Huey, KA and Godwin, K. Interactive Activities to Learn How Our Muscles Work for 4th and 5th Graders, American Physiological Society Phun Week Poster Session, Experimental Biology April 22-26, 2017, Chicago, IL

Huey, KA, Larson, E., Buettner, D. and Wilhelmi, A. Knee and Shoulder Flexion and Extension Strength Differences Between Genders Along the Force Velocity Curve. American College of Sports Medicine Meeting, May 30-June 3, 2017, Denver, CO.

Kerrigan A, **Percival KM**, Brock J. Evaluation of Clinical Pharmacists use of Blood Culture Follow-up Protocol Utilizing Rapid Molecular Diagnostic Testing. ASHP-Midyear Clinical Meeting, Orlando, FL. December 2017

Lehman,N., **Koenigsfeld CF**, **Wall GC**, Renner, C, Hahn, KD, Sheesley, B, Bjornson A, Veach LA. A Collaborative Program Using Student Pharmacists to Increase Adult Vaccination Rates for a High-Risk Patient Population Receiving Care at Urgent Care Clinics. Poster #1246 Presented at IDSA 2017, San Diego, CA

Mages MD, **Rovers, JP**, **Andreski M**, Gray J. Effect of participation on a short term medical service trip on cultural competence in health care professional students. Abstract presented to 2017 ASHP Midyear Clinical Meeting, Orlando, FL. December 2017

Mann SE, **Sacco JC**. Prevalence of genetic polymorphisms in the GSTP1 promoter in dogs. Poster presented at the 13th Annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS), Des Moines, IA, April 13th, 2017.

Mobley-Bukstein W. Implementation of Student-Led Health Screenings Focused on Patient Follow-Up; poster accepted and presented at the APhA Annual Meeting March 2017.

Mobley-Bukstein W. Impact of Pharmacist/Certified Diabetes Educator in a Federally Qualified Health Center; abstract submitted to APhA Annual Meeting Reviewers 2016; poster accepted and presented at the APhA Annual Meeting March 2017.

Mobley-Bukstein W. Health Coaching Implementation to Improve Health Outcomes in Diabetes Management in a Federally Qualified Health Center; abstract submitted to AADE Annual Meeting Reviewers 2017; accepted as a poster and presented at the AADE Annual Meeting August 2017.

Mobley-Bukstein W. Getting in Touch with Diversity and Unconscious Bias Workshop; abstract submitted to AADE Annual Meeting Reviewers 2017; accepted as a poster and presented at the AADE Annual Meeting August 2017.

Nai, M.M., Meyer, B.B., **Gnacinski, S.L.**, Arvinen-Barrow, M. (2017, April). Association between two factors of grit and conscientiousness in student-athletes. Poster presented at the annual meeting for the Midwestern Psychological Association, Chicago, IL, USA.

Nelson M and Tweddell S. Implementing Team-Based Learning: The Faculty Experience. Poster presentation at the American Association of Colleges of Pharmacy Annual Meeting, Nashville, Tennessee, July 2017.

Munusamy S, Ravindran S, Abunada A, Elshami S, Al-Rawi S, Shaar S, Agouni A. Microparticles as Potential Mediators of Renal Injury in Diabetes. Conference on Understanding Molecular Mechanisms Underlying Cardiovascular disease, Diabetes, Obesity and Stroke; January 2017; Doha, Qatar.

Munusamy S, Abunada A, Elshami S, Agouni A. In Vitro Investigation of Autocrine Effects of Microparticles Shed by Renal Tubular Cells in Response to High Glucose Stress. Second Health Cluster Symposium, April 22, 2017; Qatar University, Doha, Qatar.

Munusamy S, Ravindran S, Al-Rawi S, Shaar S, Agouni A. Investigation of the Pro-Fibrotic Effects of Microparticles on Renal Proximal Tubular Cells In Vitro, College of Pharmacy Annual Research Forum; May 2017; Qatar University, Doha, Qatar.

Munusamy S, Pasha M, Alali F. Anti-neoplastic Effects of Metformin Against Renal Cell Carcinoma. Qatar University Annual Research Forum; May 2017; Doha, Qatar.

Munusamy S, Ravindran R, Pasha M, Agouni A. Microparticles as Potential Mediators of High Glucose-Induced Renal Cell Injury. 22nd Annual Meeting of the Iowa Physiological Society; September 30, 2017; Iowa City, IA

Mulla N. NeoCULTURE™: An Innovative High Throughput Screening-Focused Microfluidic Well Plate for 2D/3D Cell Culture. Poster presented at- AAPS 2017

Mulla N. NeoIMA™: A Nanoliter Error-free Microfluidic Well Plate for Immunoassay-based Application. Poster presented at- AAPS 2017

Redman, C.M, Meachen, J., and Lovelace, D., 2017, The relative abundance of mammalian carnivores from Natural Trap Cave, Wyoming (Late Pleistocene): Journal of Vertebrate Paleontology Abstracts of Papers, v. 37 no. 3 supplement. Poster presented at: Society of Vertebrate Paleontology's 77th Annual Conference; August 23-26, 2017; Calgary, Alberta

Seadler JL, Percival KM, Boelts BC, Maki ED. An Evaluation of Discharge Antimicrobial Documentation During Transitions of Care. ASHP-Midyear Clinical Meeting, Orlando, FL. December 2017

Stelter N, Mobley-Bukstein W, Clarke C, Bald E, Martin N, Adams T, Bridge T, Hannan R, Holmes L, Powers J, Serbin K. University employee perceptions of student pharmacist-provided influenza immunizations. Iowa Pharmacists Association Annual Meeting. Coralville, IA. June 2017.

Stelter N, Mobley-Bukstein W, Clarke C, Bald E, Martin N, Adams T, Bridge T, Hannan R, Holmes L, Powers J, Serbin K. University employee perceptions of student pharmacist-provided influenza immunizations. American Pharmacists Association Annual Meeting. San Francisco, CA. March 2017.

Thiefault M, Nesheim J, **Percival KM**. Impact of Single IV Dose Antibiotic on Outcomes for Patients Discharged from the Emergency Department on Oral Antibiotics. ASHP-Midyear Clinical Meeting, Orlando, FL. December 2017

Tweddell S. and **Nelson M**. Experiences of using team-based learning across a pharmacy programme. 1stWorld Summit of the International Federation of National Teaching Fellows. Birmingham, United Kingdom. February 2017.

Welter K, **Caligiuri F**, **Ulrich E**. Assessing Pharmacy Student Knowledge, Confidence, and Attitudes of Medical Cannabis Therapy. Iowa Pharmacy Association Annual Meeting; June 16-17; Iowa City, Iowa.

Welty T, Gidal B, Berg M, Privitera M, Dworetzky B, Szaflarski J. Medication adherence in the Equigen study of generic lamotrigine substitution. American Epilepsy Society. 2017:Abstract 3.262.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/345196

Williamson AC, LeBlanc HR, **Gentry BG**, **Wrenn CC**, Study of daily oral genistein on spatial and olfactory memory in wild type and transgenic mice that model Alzheimers disease. Iowa State Neuroscience Day (2017).

Wold K, Brock J, **Percival KM**, Rearigh L, Vocelka L, Afroze A. Assessment of Reflex Urine Culture Criteria Changes and its Impact on Treatment of Asymptomatic Bacteriuria. ID Week San Diego, CA. October 2017

Yablochkin A, Mann S, **Sacco J**. Single nucleotide polymorphisms and microsatellites in the canine GSTP1 promoter. Poster presented at the Annual Meeting of the Central States Chapter of the Society of Toxicology, Ames, IA, September 21st-22nd, 2017. Winning poster in the undergraduate student category.

Yablochkin A, Steinbronn C, Weaver A, Spocter, M, **Sacco J**. Genetic Variation and Comparative Genomics of the Canine TMF-1 Regulated Protein (TRNP1) Gene. Poster presented at the 13th Annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS), Des Moines, IA, April 13th, 2017.

BOOKS CHAPTERS: (6)

Homan, K & **Newman**, N. Light Therapy. In W. Prentice ed. Therapeutic Modalities in Rehabilitation. 5th ed. Boston: McGraw-Hill; 2018.

Koenigsfeld C, **Eastman D**, **Fornoff A**. Headache. NAPLEX Review Guide. 3rd edition. New York, NY: McGraw-Hill; 2018: 452-459. In Press

Maki ED, Chapter 106: Gout and Hyperuricemia. In: Schwinghammer TL, Koehler JM, 10th eds. Pharmacotherapy Casebook: A Patient-Focused Approach. New York: McGraw-Hill, January 2017

Meyer, B.B., **Gnacinski, S.L.**, & Fletcher, T.B. (2017). Talent Identification. In J. Taylor (Ed.), Handbook for assessment in sport psychology consulting. Human Kinetics.

Welty TE, Drug Induced Seizures. In Tisdale J ed. Drug Induced Diseases 3rd ed. American Society of Health-System Pharmacists, Washington DC, 2017.

Welty TE, Faught E. Epilepsy. In Wells B ed. Pharmacotherapy: Principles and Practice 1st, 2nd, 3rd, 4th, ed. McGraw Hill. Baltimore, 2008, 2009, 2013, 2017.

BOOKS: (2)

Bell EA. Children's Medicines - What Every Parent, Grandparent, and Teacher Needs to Know. Johns Hopkins Health Press Book, October 2017.

Padilla, R. & **Griffiths, Y.** (2017). A Professional Legacy (4th Ed.) Bethesda, MD. American Occupational Therapy Association Inc.

NON-PEER REVIEWED ARTICLES: (6)

Bell C, Spilman SK, **Eastman DK**, Sidwell RA, Sherrill JE, Pelaez CA. Do all head injured patients on antiplatelet drugs really need platelets? Podium presentation at the Annual Meeting of the Iowa Committee on Trauma, Iowa City, IA. November 10, 2017.

Bowen, S., & Fischbach, J. (2017). Instilling advocacy skills through experience. *OT Practice*, 22(18), 22-23.

Bowen, S. (2017). Working at skilled nursing facilities: Interviewing your future employer. *OT Practice* 2017

Chesnut, R., Atcha, I., Do, D., Harrell, K., Holland, A., Miller, M., Shields, K., Sousa, K., Van Den Broek, R., Zeeman, J., Nohria, R., Adams, J. Report of the 2016-2017 Student Affairs Standing Committee. *American Journal of Pharmaceutical Education* Volume 81, Issue 8, 2017 <http://www.ajpe.org/doi/full/10.5688/ajpeS12>

Defino CE, Wall GC. Atopic Dermatitis. *Pharmacy Times*. Pharmacy Times. July 2017 Dermatology Supplement

Schlichting J, Wall GC. Contact Dermatitis. *Pharmacy Times*. July 2017 Dermatology Supplement.

NON-PEER REVIEWED COLUMNS: (9)

Bell E. Update on Probiotics - Infectious Diseases in Children, *Pharmacology Consult*. February 2017

Bell E. Head Lice: Resistance Trends and Clinical Implications - Infectious Diseases in Children, *Pharmacology Consult*. March 2017

Bell E. Pediatric Implications of the Opioid Crisis - Infectious Diseases in Children, *Pharmacology Consult*. May 2017

Bell E. Epinephrine Auto-Injectors: Life-saving and Expensive - Infectious Diseases in Children, *Pharmacology Consult*. June 2017

Bell E. Emergency Contraception: Pharmacotherapy Update - Infectious Diseases in Children, *Pharmacology Consult*. September 2017

Bell E. Why Your Child Needs Vaccines, Even If You May Not Know Someone with the Disease, *The Conversation*, online website: April 19, 2017

Miesner AR and Resman-Targoff B eds. *American College of Clinical Pharmacy Adult Medicine PRN Spring Newsletter*. 2017;12(1):1-14.

Miesner AR and Resman-Targoff B eds. *American College of Clinical Pharmacy Adult Medicine PRN Fall Newsletter*. 2017;12(2):1-16.

Miesner AR. *American College of Clinical Pharmacy Adult Medicine PRN Fall 2017 Newsletter Podcast Extra*. Available at: <https://soundcloud.com/andrew-miesner/2017-fall-newsletter-podcast-extra>

INVITED/NON-REVIEWED PODIUM PRESENTATIONS (49)

Baird, S., Bean, E., Butters Wooding, C., Cranney, A., Horn, M.J., & **Gnacinski, S.L.** (2017, October). Tactical environment: 5 slides in 5 minutes. Invited 60-minute panel presentation at the annual meeting of the Association for Applied Sport Psychology, Orlando, FL, USA.

Bither C, **Eastman DK**, Hanna M, Tate BC. Managing hyperkalemia in the inpatient setting: Evolving strategies to ensure optimal patient outcomes. Video roundtable discussion for ASim CE programming, Boulder, CO. June 3, 2017.

Brady MP, New Preceptor Webinar. Drake University Health Sciences Experiential Education. August 2017.

Brady MP, Returning Preceptor Webinar. Drake University Health Sciences Experiential Education. August 2017

Chesnut, R., Atcha, I., Do, D., Harrell, K., Holland, A., Miller, M., Shields, K., Sousa, K., Van Den Broek, R., Zeeman, J., Nohria, R., Adams, J. Report of the 2016-2017 Student Affairs Standing Committee. Presented at the American Association of Colleges of Pharmacy, Nashville, TN; July 2017.

Eastman DK. Extended Treatment of Venous Thromboembolism: Rivaroxaban or Aspirin (or Nothing?) CEI Log in to Learn. August 2017.

Eastman DK. Perioperative Management or Emergent Reversal of Anticoagulation Therapy. Iowa Methodist Medical Center Pharmacy Grand Rounds. Des Moines, IA. March 22, 2017.

Eastman DK. Perioperative Management or Emergent Reversal of Anticoagulation Therapy. Iowa Methodist Medical Center Surgery Grand Rounds. Des Moines, IA. March 16, 2017.

Fischbach, J. (2017). Oh, the places you'll go: Telehealth in OT. Indian Hills Occupational Therapy Assistant Program, July 2017. Oskaloosa, IA, via On-line Lecture.

Fischbach, J. (2017). Sensory Processing Disorder: Updating practice. Blank Children's Hospital, July 2017. Des Moines, IA.

Fischbach, J. (2017). The CVI Range assessment and application to practice. Creighton Pediatric Resident Training, March 2017. Omaha, NE via synchronous distance learning.

Fischbach, J. (2017). Cortical Visual Impairment and Intervention. Creighton Pediatric Resident Training, March 2017. Omaha, NE via pre-recorded lecture.

Fischbach, J. (2017). Single-Subject Research: Multi-baseline Studies. Heartland AEA In-Service. January 2017. Des Moines, IA

Gutierrez, C., Newman, N., Fischbach, J., & Fenner, S. (2017, November). Health sciences academic breakout session at Pharmacy and Health Sciences Day in Des Moines, IA.

Gutierrez, C. (2017, October). Overview of health sciences at Drake. Panel Presentation at Central Campus Health Sciences College Overview Day in Des Moines, IA

Gutierrez, C. (2017, July). Careers in Healthcare. Presentation at D-PREP at Drake University in Des Moines, IA.

Gutierrez, C. (2017, April). Health sciences academic presentation at Drake University Admitted Student Day in Des Moines, IA.

Gutierrez, C. (2017, March). Health sciences academic presentation at Drake University Admitted Student Day in Des Moines, IA.

Gutierrez, C., Brady, M., & Fenner, S. (2017, February). Bachelor of Science in Health Sciences at Pharmacy and Health Sciences Day in Des Moines, IA.

Griffiths, Y. (October 20, 2017). Caring for the Caregiver. Presentation for the ALS Society. Drake University. Des Moines, IA.

Haack S, Mazar I, Mahajan P. Building Local and Global Communities through Global and Comparative Public Health Courses. Drake University Learning Symposium. West Des Moines, IA, August 2017.

Haack S. Preparing Students to Use Interpreters in Caring for LEP patients. AACP Health Disparities and Cultural Competence SIG Webinar. March 3, 2017.

Hurdelbrink JR. The Effects of the Deficit Reduction Act of 2005 on Transfers and Long-Term Care Utilization. Presented at the Midwest Economic Association Meeting, Cincinnati, OH. March 31, 2017.

Hurdelbrink JR. The Effects of the Deficit Reduction Act of 2005 on Transfers and Long-Term Care Utilization. Presented at the Drake University Economics Brown Bag Seminar. Des Moines, IA. September 1, 2017.

Kassel LE. Invited Presentation: Gearing Up for a Career in Academia. American College of Clinical Pharmacy (ACCP) Webinar. July 2017.

Kassel LE. A 3-Dimensional View of New and Emerging Treatment Options for Primary Headache Disorders: Implications for Managed Care. The Med Learning Group Webinar. June 2017.

Kassel LE, Silberstein S. A 3-Dimensional View of New and Emerging Treatment Options for Primary Headache Disorders: Implications for Managed Care. Asembia Meeting, Las Vegas, NV. May 2017.

Koenigsfeld C. Presented APhA Immunization Certificate program at Texas A&M in November 2018.

Koenigsfeld C. Presented APhA Diabetes Certificate program twice in October 2017.

Mahajan P. Biotechnology for Public Health at the Center for Social Medicine, Pravara Institute of Medical Sciences, Loni, Maharashtra, India, on January 18, 2017.

McKinney R, **Maki ED.** Geriatric Pharmacology and De-Prescribing Overview National PACE Association Summer Conference, Omaha, NE. June 2017.

Meyer, KS. Improving Falls Care Coordination with Pharmacists. Iowa Area Agency on Aging 2017 Falls Symposium, Ankeny, Iowa, July 2017.

Mobley-Bukstein W. Vitamin Deficiencies in Diabetes American Diabetes Association Clinical Conference May 2017, Orlando, FL.

Munusamy S. Novel Therapeutic Approaches to Treat Diabetic Kidney Disease. Pharmacy and Health Sciences Day; November 19, 2017; Drake University, Des Moines, IA

Nelson M. Team-Based Learning in Pharmacy Education: An Introductory Workshop. Workshop presentation to faculty members at Concordia University School of Pharmacy, Mequon, Wisconsin. May 2017.

Nelson M. "Introduction to Team-Based Learning." Workshop presentation to faculty members at Medical College of Wisconsin Pharmacy School, Milwaukee, Wisconsin. December 2017.

Percival KM. Antibiotic Review. Internal Medicine Noon Conference Series. Mercy Medical Center, Des Moines, IA. February 2017

Percival KM. Antifungal and Antiviral Review. Internal Medicine Noon Conference Series. Mercy Medical Center, Des Moines, IA. February 2017

Percival, KM. AmpC Beta-Lactamases. Internal Medicine Noon Conference Series. Mercy Medical Center, Des Moines, IA. September 2017

Percival KM. "Infectious Disease Pharmacists as a career". LKS Nu Chapter professional development session. Drake University, Des Moines, IA. April 2017

Percival KM. "Careers in Academia-Clinical Faculty". CAPS III Course. Drake University. Des Moines, IA. Nov 2017.

Phillips CR, Ray M. What do the 2016 ACPE Accreditation Standards Mean for Pharmacy Practice and Colleges/Schools of Pharmacy? NABP District V Annual Meeting. West Des Moines, IA. August 5, 2017.

Pudlo A, **Bryant G**. World Cafe on Diabetes Prevention and Interventions: Diabetes Pharmaceuticals Round Table Discussion Leader. 2017 Iowa Diabetes Summit: Changing the Landscape of Prevention and Management. Ankeny, IA. November 2017.

Rovers, J. Serving Responsibly on Your Medical Mission/Service Trip. 2017 Pharmacy and Health Sciences Day. November 9, 2017.

Seybert AL, Armbruster AL, Crannage AJ, **Maki ED**, McFalls M, Aungst TD. Technology in Pharmacy Education and Learning SIG: Case Studies and Application of Emerging Technologies American Association of Colleges of Pharmacy Annual Meeting, Nashville, TN. July 2017

Welty TE. Update on generic substitution of drugs: focus on within-patient variability. Asian Conference on Clinical Pharmacy, Yogyakarta, Indonesia, July 2017.

Welty TE. Update on neurology pharmacotherapy. Pharmacotherapy Board Certification Prep Course, American College of Clinical Pharmacy, Jacksonville, FL, February 2017.

Wrenn C, Haack S. Opioid Crisis. Invited speaker at National Association of Social Workers in Iowa. Des Moines, IA. December 6, 2017.

Wrenn C, Haack S. Opioid Crisis. Invited speaker at Let's DU Lunch Presentation for Drake Alumni. Des Moines, IA. November 1, 2017.

INVITED/NON-REVIEWED POSTER (21)

Brask A, Eid K, Godwin K, and Kimberly Huey (Mentor). A Comparison of Strength and Cardiorespiratory Adaptations to Running Wheel or Disc Exercise in Aged Mice. Drake Undergraduate Research Symposium, April 13, 2017.

Corry J, Edmondson C, Envall L, Campbell B, Tracy M, Wuebker MW. Effects of Play on Social Participation and Self-Stimulatory Behaviors in Children with Autistic Tendencies, Iowa Occupational Therapy Conference, Des Moines, Iowa, October 7, 2017.

Gnacinski, S. (2017, September & October). Integrated aspects of police officer health and performance. Oral presentation delivered at the West Des Moines Police Department. West Des Moines, IA, USA.

Godwin, K and Kimberly Huey. Effects of Glutamine Supplementation on Overload-Induced Muscle Growth and Function in Mice. Iowa Space Grant Undergraduate Student Celebration, March 24, 2017.

Godwin, K and Kimberly Huey. Exercise capacity and muscular adaptations to treadmill training are not reduced by AICAR treatment in mice. Drake Undergraduate Research Symposium, April 13, 2017.

Godwin, K and Kimberly Huey. Effects of Glutamine Supplementation on Overload-Induced Muscle Growth and Function in Mice. Drake Undergraduate Research Symposium, April 13, 2017.

Hoerres A and Mahajan P (2017) Understanding the Role of Matrix Metalloproteinase-2 and -9 in DNA repair at the DUCURS Research Conference, Drake University, Des Moines, IA on April 13, 2017 [First Award winning poster]

LeBlanc, H.R., Williamson, A.C., Wrenn, C.C. Study of Daily Genistein Ingestion on Spatial Memory and Olfaction in Triple Transgenic Alzheimer's Mice. American Society for Pharmacology and Experimental Therapeutics, Annual Meeting, April 2017.

Makowiecki M, Stratton V and **Mahajan P** (2017) A Pharmacogenomic Analysis of the Prevalence of CYP2C19 Genotypes in a Des Moines Subpopulation and the Possible Effects of Genotypic Variation on Patient Response to Clopidogrel Therapy poster presented at the Annual Meeting of the Iowa Pharmacy Association at Coralville, IA on June 16-17, 2017.

Montgomery, J.C., Williamson, A.C., O'Brien, E.F., **Wrenn, C.C.** Sociability and social recognition in B6/129 hybrid mice: A pilot study. Iowa State Neuroscience Day, September 2017.

Munusamy S, Ravindran S, Al-Rawi S, Shaar S, Agouni A. Investigation of the Pro-Fibrotic Effects of Microparticles on Renal Proximal Tubular Cells In Vitro, College of Pharmacy Annual Research Forum; May 26, 2017; Qatar University, Doha, Qatar

Munusamy S, Abunada A, Elshami S, Agouni A. In Vitro Investigation of Autocrine Effects of Microparticles Shed by Renal Tubular Cells in Response to High Glucose Stress, College of Pharmacy Annual Research Forum; May 26, 2017; Qatar University, Doha, Qatar

Nadolny E, **Wuebker MW**. The Effects of Sensory Processing/Integration Disorder on Teenagers with Autism While Engaging in Driving, Iowa Occupational Therapy Conference, Des Moines, Iowa, October 7, 2017.

Ohman M and **Mahajan P** (2017) Understanding role of DNA methylation and methyltransferases in DNA repair presented at the Iowa Space Grant Consortium Research Conference at Iowa State University, Ames, IA, March 21, 2017 [Bronze Award winning poster]

Phillips, C. and Chesnut, R, Domain 4: Assessing Professionalism, Entrepreneurship, & Leadership Development. (2017). Poster session, American Association of Colleges of Pharmacy Annual Meeting, 2017: Nashville, TN (college poster).

Rush C and **Kimberly Huey**. Effects of Different Modes of Exercise on Muscle Strength in Males and Females. Drake Undergraduate Research Symposium, April 13, 2017.

Steinbronn C, Stratton V and **Mahajan P** (2017) Application of Pharmacogenomic Analysis of CYP2D6 for Pharmacotherapy: A Retrospective Analysis of a Des Moines Metro Area Population poster presented at the Annual Meeting of the Iowa Pharmacy Association at Coralville, IA on June 16-17, 2017.

Thommi M, **Kassel LE**, Hubble M, Brabeck L. Health Sciences Capstone Poster. Evaluation of the Impact of Pre-Operative Joint Camp Attending on Post-Operative Complications in the Orthopedic Population. Health Sciences Capstone Posters. Des Moines, IA. May 2017.

Wealther R, Donovan S, Cowan A, Johannsson C, **Mahajan P**, Bangal V (2017) Study of Incidence and Socio-Biological Factors Associated with Low Birth Weight Infants Born at Pravara Rural Hospital, Ahmednagar District of Maharashtra, India at the DUCURS Research Conference, Drake University, Des Moines, IA April 2017

Wensing S, Hubble M, **Kassel LE**. Accepted Student Abstract/Poster Presentation: Evaluation of Safety of the Insulin Drip Protocol for Patients with Hyperglycemia. Iowa Pharmacy Association Meeting. Iowa City, IA. June 2017.

Williamson, A.C., LeBlanc, H.R., **Wrenn, C.C.** Study of daily oral genistein on spatial and olfactory memory in wild type and transgenic mice that model Alzheimers disease. Iowa State Neuroscience Day, September 2017.

TECHNICAL OR CONSULTANT REPORTS: (7)

Andreski, M Baseline Characteristics of the Iowa CPESN Pharmacies; Presented at the IPA Expo, CPESN Meeting, Des Moines, IA Feb 17, 2017

Andreski M, Doucette W, Pudlo A. Evaluating a Value-Based Pharmacy Program. Presented to the Wellmark Value Based Pharmacy Summit, Des Moines, IA on April 21, 2017

Andreski, M, A Revised Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy: A Demonstration Project to Study the Effects of Implementing Tech-Check-Tech Programs in Community Practice to Engage Community Pharmacists in Clinical Pharmacy Services in Iowa Phase III-IV Quarterly Report. Presented to Iowa Board of Pharmacy on Mar 8, 2017. Sponsored by Iowa Pharmacy Association.

Andreski, M, A Revised Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy: A Demonstration Project to Study the Effects of Implementing Tech-Check-Tech Programs in Community Practice to Engage Community Pharmacists in Clinical Pharmacy Services in Iowa Phase III-IV Quarterly Report. Presented to Iowa Board of Pharmacy on May 9, 2017. Sponsored by Iowa Pharmacy Association.

Andreski, M, A Revised Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy: A Demonstration Project to Study the Effects of Implementing Tech-Check-Tech Programs in Community Practice to Engage Community Pharmacists in Clinical Pharmacy Services in Iowa Phase III-IV Quarterly Report. Presented to Iowa Board of Pharmacy on Aug 30, 2017 Sponsored by Iowa Pharmacy Association.

Andreski, M, A Revised Pharmacy Pilot or Demonstration Research Project for a New Practice Model for Community Pharmacy: A Demonstration Project to Study the Effects of Implementing Tech-Check-Tech Programs in Community Practice to Engage Community Pharmacists in Clinical Pharmacy Services in Iowa Phase III-IV Quarterly Report. Presented to Iowa Board of Pharmacy on Nov 1, 2017. Sponsored by Iowa Pharmacy Association.

Rovers, J. A Men's Health Needs Assessment in the Toledo District of Southern Belize. December 21, 2017.

RESEARCH GRANTS AND CONTRACTS: (27 NEW)

Extramural (10)

Title: Assessment of Readiness of Iowa Pharmacies to Provide ACA Supported Patient Care Initiatives

Sponsor: Iowa Department of Public Health,

Start Date: Jan 2017- June 2017

Direct Costs: \$2,000 allocation, no direct costs

Role: **M. Andreski**, Research Consultant/ Co-investigator with Iowa Pharmacy Foundation

Title: Travel expenses attending the Pen to Paper writing conference in Rochester, NY.

Sponsor: 2017-2018 Iowa Campus Compact Engaged Scholar Research Fellows program

Start Date: 2017

Direct Costs: \$1056 to cover

Role: **Haack, S.** (PI)

Title: Epigenetic effects of DNA damaging agents

Sponsor: Iowa Space Grant Consortium, Iowa State University, Ames, Iowa;

Start Date: August 2017- May 2018.

Direct Costs: \$7,000; \$5,000 scholarship to student (PI); \$2,000 project funds to faculty

Role: **P. Mahajan** (Co-PI).

Title: Role of proteases in DNA repair

Sponsor: Iowa Space Grant Consortium, Iowa State University, Ames, Iowa;

Start Date: August 2017- May 2018.

Direct Costs: \$7,000; \$5,000 scholarship to student (PI); \$2,000 project funds to faculty

Role: **P. Mahajan** (Co-PI).

Title: Regulation of methyltransferases in DNA repair

Sponsor: Iowa Space Grant Consortium, Iowa State University, Ames, Iowa;

Start Date: August 2017- May 2018.

Direct Costs: \$7,000; \$5,000 scholarship to student (PI); \$2,000 project funds to faculty

Role: **P. Mahajan** (Co-PI).

Title: Introduction to Precision Medicine: An Experiential Course for Iowa's STEM Teachers

Sponsor: Iowa Space Grant Consortium, Iowa State University, Ames, Iowa;

Start Date: August 2017- May 2018.

Direct Costs \$10,000 direct costs

Role: **Mahajan, P** (PI)

Title: Development of nanoparticulate drug delivery tools using microfluidic devices

Sponsor: Neofluidic LLC

Start Date: 2017

Direct Costs: 5000.00

Role- **N. Mulla**, Co-investigator, Advisor

Title: Investigating the anticancer potential of metformin in renal cell carcinoma

Sponsor: The NASA-Iowa Space Research Consortium

Start date/completion date: 1/1/2018 to 6/21/2018

Direct Costs: \$7,000

Role: **S. Munusamy**, Principal Investigator

Title: Employer's Perceptions of Key Variables in New Practitioners' Success When Entering the Pharmacy Workforce.

Sponsor: NABP/AACP District Five Individual Study Grant Proposal

Start Date: 2017

Direct Costs: \$1363

Role: Kristin Janke (PI), **Michael Nelson (Co-I)**, **Eliza Dy-Boarman (Co-I)**, and Robert Bechtol (Co-I).

Title: Determining Student Preferences of and Required Financial Incentives to Work in a Rural and Medically Underserved Area in NABP/AACP District Five.

Sponsor: NABP/AACP District 5

Start/completion date: June 2017-June 2018

Amount Awarded: \$3,000

Role: **E. Ulrich**, (PI)

Intramural: (17)

Title: Enzymatic Conversion of MBX-2168-MP to Synguanol-MP by Adenosine Deaminase Like Protein-1, a Necessary Step in the Conversion of this Prodrug into an Active Antiviral Compound

Sponsor: Drake University College of Pharmacy and Health Sciences Harris Research Endowment

Start Date: Dec 2017

Direct Costs: 2,500

Role: **B. Gentry**, (PI)

Title: Measuring Outcomes of a Medication Adherence Intervention at a Mexican Hospital. Sponsor: Harris Research Endowment.

Start Date: December 2017

Direct Costs: \$3950

Role: **Haack, S.** (PI)

Title: Tec de Monterrey Partnership Planning.
Sponsor: Olson Global Service-Learning Fellow Grant.
Start Date: June 2017.
Direct Costs: \$4345.
Role: **Haack, S.** (PI)

Title: American College of Sports Medicine Meeting Presentation
Sponsor: Jorndt Award
Start Date: January 2017-May 2017
Direct Costs: \$750
Role: **K. Huey**, PI

Title: Muscular and Cardiorespiratory Adaptations to Concurrent Training in Mice
Sponsor: Drake University Research Grant
Start Date: July 2017-June 2018,
Direct Costs: \$2,900
Role: **K. Huey**, PI

Title: Ronald Troyer Research Fellowship
Sponsor: Drake University
Start Date: July 2017-June 2018
Direct Costs: \$5,000
Role: **K. Huey**, PI

Title: National Case Study Conference
Sponsor: Drake Faculty Development Grant
Start Date: September 2017
Direct Costs: \$1,500
Role: **K. Huey**, PI

Title: Identification of Top Drug Information Assessment Within United States PharmD Curricula
Sponsor: CPHS Hartig Professional Development
Start Date: Nov. 2017
Direct Cost: \$2500.
Role: **Koenigsfeld C, Lehman N, Bottenberg MM.** (Co-PIs)

Title: Preliminary Exploration: Clinical Doctorates in America
Sponsor: Harris Research Endowment, Drake University CPHS
Start date: Sept 2017- ongoing
Direct Costs: 360.00
Role: **A. Kjos**, Principal Investigator

Title: Genetic basis for soapy cilantro tester status of Drake University Students, Faculty and Staff
Sponsor: Kresge Foundation Funds, CPHS
Start Date: May-June 2017.
Diret Costs: \$3,655
Role: **Mahajan, P.** (PI)

Title: Epinephrine Drug Degradation in Auto-Injector Products
Sponsor: CPHS, Harris Research Endowment
Start date: September 2017
Direct Costs: \$2,436
Role: **A. Mengesha, Lynn Kassel** (Co-PIs)

Title: Funding to purchase a 3D printer with a semi-solid extrusion tool-head

Sponsor: Kresge fund
Start date: March 2017
Direct costs: \$826.54
Role: **A. Mengesha, (PI)**

Title: Designing the ideal drug delivery system: Evaluating potential polymers for the development of 3D printed suppositories

Sponsor: Harris Research Endowment, CPHS
Start date/Completion date: Oct. 2017 to June 2018
Direct Costs: \$930.00
Role: **A. Mengesha, (PI)**

Title: A Smartphone Application for Antimicrobial Stewardship.

Sponsor: Harris Research Endowment
Start Date: 11-1-2017
Direct Costs: \$975
Role: **A Miesner, (Mentor and Co-investigator)**

Title: Harris Research Endowment:

Sponsor: CPHS Harris Research Endowment:
Start: 2017
Direct Costs: \$2928.00
Role: **N. Mulla (PI)**

Title: Molecular and pharmacological studies of chronic kidney disease

Sponsor: Kresge Endowment Fund - College of Pharmacy & Health Sciences, Drake University
Start date/completion date: 8/14/2017 to 6/30/2020
Direct Costs: \$10,000
Role: **S. Munusamy, Principal Investigator**

Title: Drake University's presence in the Toledo District of Southern Belize: Maximizing our impact while minimizing our footprint.

Sponsor: Roland and Mary Nelson Institute for Diplomacy and International Affairs Pressing Issues Grant
Start Date: January 1, 2017 - December 31, 2018
Direct Costs: \$30,000
Role: **J. Rovers, Principal investigator**

UNDERGRADUATE RESEARCH PROJECTS: (66 projects, multiple students)

Nicole Draker and Brandon Boelts

Mentor: E. Bell

Project title: Dangers of Codeine Use in Children for Analgesia and Cough Relief: Implications for the Pharmacist
Product(s): Article co-written by 2 P3 students and submitted to IPA journal

Anna Bruns, Alyssa Jameson, Molly McDonough, Madelyn Nave, Caleb Prevo - OT

Mentor: S. Bowen

Project Title: What are the factors that influence occupational engagement of residents in long-term care
Product(s): Poster presentation (October 2017)

Molly Obermark (Pharmacy)

Mentor: G. Bryant

Project title: Retrospective Evaluation of ASCVD Risk and Statin Therapy Need in Non-Diabetic patients based on the 2013 ACC/AHA Cholesterol Guidelines.

Product(s): Koenigsfeld C, Saylor M, Smith H, Meyer K, Lehman N, Logemann C, Bottenberg M, Bryant G, Obermark M. Retrospective evaluation of ASCVD risk and statin therapy need in nondiabetic patients based on the 2013 ACC/AHA Cholesterol Guidelines. J Pharm Pract. 2017;30(3):300-305.

Hannah Sauer (Pharmacy)

Mentor: G. Bryant

Project title: Second-year pharmacy students' self-reflection of aseptic technique skills and the impact of video review on metacognition and performance

Product(s): Dy-Boarman E, Diehl B, Mobley-Bukstein W, Bottenberg M, Bryant G, Sauer H. Comparison of faculty and student self-assessment scores of aseptic technique skills and the impact of video review on self-awareness for second-year pharmacy students. Curr Pharm Teach Learn [in press, available online November 2017].

Emily Nadolny, Derek Mehrl, Taylor Crane, Maddeline Eggleston, Kaylie Hills

Mentor: J. Fischbach

Project Title: Effectiveness of CIMT on improving UE function in children
Products: On-going

Regan Longtin, Natalie Stalsberg, Caroline McCleary, Michail Peterson, and Julie Girard

Mentor: J. Fischbach

Project Title: Effectiveness of primitive reflex integration on function in children:
Products: On-going

Gloria Frolek Clark, Morgan Buzzel, Kaile Damm, Stephanie Dizon, and Sarah Loffredo

Mentor: J. Fischbach

Project Title: Improving feeding and eating in children with food selectivity:
Products: On-going

Abigail Whillock, Carrie Behrends, Rachel Robertson, and Danielle Retallick

Mentor: J. Fischbach

Project Title: Efficacy of the MFUN and GOAL assessments delivered via telehealth:
Products: On-going

Alex Maciejewski, Pharmacy

Mentor: A. Fornoff

Project title: Leadership Development Through Service-Learning: My Drake Experience.

Product(s): International Undergraduate Journal for Service-Learning, Leadership, and Social Justice. 6 (2) Spring 2017. First Drake student to have a publication in an International Service-Learning Journal.

Maxx Enzman (P3) & Drake Reiter (P2)

Mentor: S. Grady

Project title: Decreasing the stigma surrounding alcohol use disorder

Product(s): A university wide symposium on alcohol in October 2017. They have recently submitted an abstract to present at a national meeting (CPNP April 2018).

Emily Anderson, AN; Hannah Lancaster, AS; Autumn Larsen, AS; Joe Sienkiewicz, BN

Mentor: C. Gutierrez

Project Title: Assessing, Collaborating, and Empowering to Improve Water Quality in Rural Uganda

Product: Presentation at 9th Annual Heartland Global Health Consortium Conference (October 2017)

Karli Kisch, BCMB; Hayley LeBlanc, BCMB; Megan Lindmark, Environmental Science; Augusta Weide, Business, 2015-2017

Mentor: C. Gutierrez

Project Title: Assessing, Collaborating, and Empowering to Improve Water Quality in Rural Uganda

Product: Presentation at the Nelson Institute Conference (April 2017)

Colby Crawford, HSCI, 2017

Mentor: C. Gutierrez

Project Title: Potential Barriers to Interprofessional Education

Product: HSCI Poster Session (May 2017)

Abigail Cowan, HSCI, 2017

Mentor: C. Gutierrez

Project Title: An Infographic on Antibiotic Resistant Gonorrhea at Polk County Health Department

Product: HSCI Poster Session (May 2017)

Sydney Kletter, HSCI, 2017

Mentor: C. Gutierrez

Project Title: Surveying the Safe Sex Knowledge and Practices of Drake Undergraduate Students

Product: HSCI Poster Session (May 2017)

Madison Maring, HSCI, 2017

Mentor: C. Gutierrez

Project Title: Healthy Vision: A Snapshot of Attitudes Toward Vision Screenings

Product: HSCI Poster Session (May 2017)

Reid Giovanine, HSCI, 2017

Mentor: C. Gutierrez

Project Title: Policies and Procedures in the Dietary Department in a Skilled Nursing Facility

Product: HSCI Poster Session (May 2017)

Elizabeth Nortman, HSCI, 2017

Mentor: C. Gutierrez

Project: Evaluating the Effectiveness of a National Diabetes Exercise Program

Product: HSCI Poster Session (May 2017)

Katherine North, HSCI, 2017

Mentor: C. Gutierrez

Project Title: Improving Patient Satisfaction in the Emergency Department

Product: HSCI Poster Session (May 2017)

Callie Brown, Mariah Peterson, Lindsay Schultz, and Emily Mock

Mentor: K. Hove

Project Title: Biofeedback Self-Regulation Study

Products: Students have started the beginning phases of this study which will continue through next year.

Kyle Godwin, HS

Mentor: K. Huey

Project Title: Exercise capacity and muscular adaptations to treadmill training are not reduced by AICAR treatment in mice

Product: DUCURS poster (April 2017), Experimental Biology poster (April 2017), American Physiological Society Undergraduate Abstract Award (April 2017)

Allison Brask, PharmD; Kara Eid, PharmD; Kyle Godwin, HS;

Mentor: K. Huey

Project Title: A Comparison of Strength and Cardiorespiratory Adaptations to Running Wheel or Disc Exercise in Aged Mice

Product: DUCURS poster (April 2017)

Kyle Godwin, HS

Mentor: K. Huey

Project Title: Effects of Glutamine Supplementation on Overload-Induced Muscle Growth and Function in Mice

Product: DUCURS poster (April 2017), Iowa Space Grant Undergraduate Meeting (March 2017)

Cortni Rush, HS

Mentor: K. Huey

Project Title: Effects of Different Modes of Exercise on Muscle Strength in Males and Females

Product: DUCURS poster (April 2017), Capstone Presentation (May 2017)

Ellie Jacoby, HS; Taylor Bischel, HS

Mentor: K. Huey

Project Title: A Comparison of Strength and Cardiorespiratory Adaptations to Running Wheel or Disc Exercise

Product: DUCURS poster (April 2018)

Odessa Cody, HS

Mentor: K. Huey

Project Title: Effects of Statin Treatment on Muscle Growth in Mice with Hypercholesterolemia

Product: DUCURS (April 2018), Capstone Presentation (May 2018)

Stephanie Wensing, Pharmacy

Mentor: L. Kassell

Project title: Evaluation of Safety of the Insulin Drip Protocol for Patients with Hyperglycemia

Product(s): Poster at IPA Meeting, June 2017.

Michelle Thommi, Health Sciences; Hannah Mortland, Pharmacy

Mentor: L. Kassell

Project title: Evaluation of the Impact of Pre-Operative Joint Camp Attending on Post-Operative Complications in the Orthopedic Population

Product(s): Poster at the Health Sciences Capstone Posters Session, May 2017. A poster will be submitted to IPA and possibly converted into a manuscript for the orthopedic literature.

Delaney Walsh, Health Sciences

Mentor: L. Kassell

Project title: Pharmacist Involvement in Medication Assessment in the Pre-Operative Phase of Bariatric Surgery

Product(s): This project is in data analysis currently. A poster will be developed for the Health Sciences Capstone Posters session, and a manuscript will be drafted for submission to a bariatric journal.

Catherine DeFino, Pharmacy

Mentor: L. Kassell

Project title: Pharmacy Students' Expectations of Teaching Assistants

Product(s): In Progress

Caroline Jones, Pre-Pharmacy

Mentor: L. Kassell

Project title: Epinephrine Drug Degradation in Auto-Injector Products

Product(s): This project is currently assessing the drug degradation of epinephrine, via HPLC. The goal is to have at least one poster from each section of this project as well as contribute to the literature for drug degradation

Nicholas Bianchina (BCMB)

Mentor: A. Kjos

Project title: The Opioid Epidemic: A Case Study of Consumer Behavior in Medical Patients

Product: Manuscript, Oral Presentation, Poster Presentation; Successful Attainment of University Honors

Paul Strey (HIST, LPS, ECON)

Mentor: A. Kjos

Title: Just a Symptom: Pharmacy Benefit Managers in an Era of Rising Drug Prices

Product: Manuscript, Oral presentation, Poster Presentation-forthcoming in 2018 Honors

Marta Lemesh (HSCI)

Mentor: A. Kjos

Project Title: Literature Review of Contemporary Nursing Practice and Education in America

Product: Literature review manuscript, in progress

Amy Kukacka- Pharm D candidate May 2018

Mentor: C. Koenigsfeld with Nic Lehman and Michelle Bottenberg

Project Title: Top Drug Information Assessment within United States Pharma Curricula

Product: In progress

Catherine Defino- Pharm D candidate May 2018

Mentor: C. Koenigsfeld with Therapeutics faculty and teaching assistants

Project title: Pharmacy Students' Expectations of Teaching Assistants

Product: In progress

Amanda Hoerres, PharmD (P2) student;

Mentor: P. Mahajan

Project title: 'Role of metalloproteases in DNA repair'

Product: Poster presented at DUCURS [1st Prize]

Michael Ohman, Pharma (P2) student;

Mentor: P. Mahajan

Project title: 'Understanding role of DNA methylation and methyltransferases in DNA repair'

Product: Poster presented at the NASA/ISGC Research Conference at Iowa State University, Ames, IA on March 16, 2017

Monika Makowiecki PharmD (P3) student;

Mentor: P. Mahajan

Project title: Pharmacogenomic analysis of CYP2C19 in Des Moines sub-population'

Product: Poster presented at the Annual Meeting of the Iowa Pharmacy Association at Coralville, IA on June 16-17, 2017.

Claire Steinbronn, PharmD (P3) student;

Mentor: P. Mahajan

Project title: Pharmacogenomic analysis of CY2D6 in Des Moines sub-population'

Product: Poster presented at the Annual Meeting of the Iowa Pharmacy Association at Coralville, IA on June 16-17, 2017.

Seadler JL and Boelt B

Mentor: E. Maki

Project Title: An evaluation of discharge antimicrobial documentation during transitions of care.

Product(s): Student Poster ASHP Midyear Clinical Meeting, Orlando, FL December 2017

Kyle Godwin

Mentor: E. Maki

Project Title: Hospitalized Patients' Perspective on Shared Decision Making and Treatment Satisfaction

Product(s): Poster at Health Science Senior Poster Session

Andre Do (Pharm)

Mentor: A. Mengesha

Project title: Evaluating potential polymers and software in 3D printing of medicine.

Product(s): 2017 DUSCI Summer Fellowship; Poster and abstract at DMU Research Symposium (2017).

Caroline Jones (Pharm)

Mentor: A. Mengesha

Project title: Development and validation of HPLC method for determination of epinephrine and its degradation products in auto-injector products. (Dr. Lynn Kassel, Co-Mentor)

Jessica Satterfield; BS-HS (2017)

Mentor: A. Miesner

Project title: The Role for Education in Antimicrobial Stewardship: A Review.

Product(s): Health Sciences Poster; manuscript submitted to AJHP and rejected, currently re-drafting for another journal

Marta Lemesh; BS-HS

Mentor: A. Miesner

Project title: A Smartphone Application for Antimicrobial Stewardship

Product(s): in progress

Tori Adams, Katie Serbin, Trevor Bridge, Jake Powers, Lauren Holmes, Ryan Hannan

Mentor: W. Mobley-Bukstein

Project title: University Employee Perceptions of Student Pharmacist-Provided Influenza Immunizations: A Pilot Study

Product(s): APhA Annual Meeting Poster March 2017

Tori Adams, Alexa DeVita, Mackenzie Leal, Jake Powers, Kelley Nyugen

Mentor: W. Mobley-Bukstein

Project Title: Implementation of Student-Led Health Screenings Focused on Patient Follow-Up

Product: APhA Annual Meeting Poster March 2017

Safa Al-Rawi, Shaad Saar - BS Pharmacy Program

Mentor: S. Munusamy

Project title: Investigation of the pro-fibrotic effects of microparticles on renal proximal tubular cells

Product(s): Qatar University College of Pharmacy Research Day Poster (May 2017)

Sanjidha Akhtar - BS Pharmacy Program

Mentor: S. Munusamy

Project title: Effect of Methylglyoxal Scavengers on Methylglyoxal- Induced Impairment in Vitamin D Signaling in Renal Tubular Cells

Product(s): Qatar University College of Pharmacy Research Day Poster (May 2017)

Jessica Seadler (PharmD), Brandon Boelts (PharmD)

Mentor: K. Percival

Project title: Antibiotic prescribing patterns and medication reconciliation at hospital discharge

Product(s): Seadler JL*, Percival KM, Boelts BC, Maki ED. An Evaluation of Discharge Antimicrobial Documentation During Transitions of Care. ASHP-Midyear Clinical Meeting, Orlando, FL. December 2017

Matt Kent, Pharmacy

Mentor: C. Phillips

Project Title: Literature review on stress in pharmacy students and faculty and other health care professionals

Product: Draft introduction for manuscript

Whitney Baker, Sydney Moor, Allison Kellen, Bre Walton, Kate Crane, Shannon Wyatt

Mentor: D. Plutschack

Project Title: The effectiveness of Kinesio Taping for pain and edema with distal radius and metacarpal fractures

Products: currently collecting data.

Name: Skylar Davis (Des Moines High School Student- junior)

Mentor: C. Redman

Project Title: Natural Trap Cave Fossils: From Ground to Collection

Products: Poster presentation at the Iowa Junior Academy of Science (April, 2017) & The State Science & Technology Fair (March, 2017)

Michelle Mages P4

Mentor: J. Rovers

Project title: A drug supply model for ambulatory care in rural and remote Australia.

Product(s): BMC Health Serv Res. 2017;17:677

Michelle Mages P4

Mentor: J. Rovers

Project title: Effect of participation on a short term medical service trip on cultural competence in health care professional students.

Product(s): Abstract presented to 2017 ASHP Midyear Clinical Meeting, Orlando, FL. December 2017

Adam Resnick (SO Data Analytics) Will Leeson (SR Data Analytics)

Mentor: J. Rovers

Project title: Comparing machine learning versus traditional qualitative methods on transcripts for men's health project

Product: Project is still underway

Anastasia Yablochkin PharmD; Claire Steinbronn PharmD

Mentor: J. Sacco

Project Title: Genetic Variation and Comparative Genomics of the Canine TMF-1 Regulated Protein (TRNP1) Gene.

Product: DUCURS Poster (April 2017)

Anastasia Yablochkin PharmD; Sarah Mann BA (BCMB)

Mentor: J. Sacco

Project Title: Single nucleotide polymorphisms and microsatellites in the canine GSTP1 promoter.

Product: Central States Chapter of the Society of Toxicology (September 2017). Winning poster in the undergraduate student category.

Sarah Mann BA (BCMB)

Mentor: J. Sacco

Project Title: Prevalence of genetic polymorphisms in the GSTP1 promoter in dogs.

Product: DUCURS Poster (April 2017); ISGC Poster (March 2017) Award winner

Bald E, Martin N, Adams T, Bridge T, Hannan R, Holmes L, Powers J, Serbin K. (all pharmacy students)

Mentor: N. Stelter

Project Title: University employee perceptions of student pharmacist-provided influenza immunizations.

Product: Poster at Iowa Pharmacists Association Annual Meeting. Coralville, IA. June 2017. Poster at American Pharmacists Association Annual Meeting. San Francisco, CA. March 2017.

Student representatives (12) from Phi Delta Chi

Mentor: R. Torry

Project title: Developing patient education drug flyers for Unity Point Health Cardiopulmonary Rehabilitation Labs
Product(s): Developed educational material for common classes of cardiovascular (14) and pulmonary medications. Used as informational and teaching purposes by staff in the Clinical Cardiopulmonary Rehabilitation Labs at Lutheran Hospital downtown and Methodist West Clinic in WDSM. Drs Lynn Kassell (pulmonary) and Erik Maki (CV) helped coordinate and oversee the clinical accuracy of the flyers.

Alyssa Sykuta

Mentor: T. Welty

Project Title: Inpatient Variability in the Equigen Trial

Product: Project is ongoing

Alyson Williamson; Hayley LeBlanc

Mentor: C. Wrenn

Project title: Study of Daily Genistein Ingestion on Spatial Memory and Olfaction in Triple Transgenic Alzheimer's Mice

Product: American Society of Experimental Therapeutics Poster, Iowa State Neuroscience Day Poster, DMU Research Day Poster, DUCURS Poster

Alyson Williamson, Josephine Montgomery; Hayley LeBlanc

Mentor: C. Wrenn

Project title: Sociability and social recognition in B6/129 hybrid mice: A pilot study

Product: Iowa State Neuroscience Day Poster

John Kasra, Ben Rohr, Brittany Sulkowski

Mentor: C. Wrenn

Project title: Sociability and social recognition in 3xTg-AD mice

Product: No product in 2017

JOURNAL REVIEWING ACTIVITIES: (49 journals)

American Journal of Health-System Pharmacy, **M. Andreski, G. Wall**
American Journal of Pharmacy Education, **A. Miesner, E. Dy-Boarman, M. Bottenberg**
American Journal of Physiology, **K. Huey**
Annals of Allergy, Asthma, and Immunology, **G. Wall**
Annals of Pharmacotherapy, **A. Miesner, E. Bell, E. Dy-Boarman, T. Welty**
Antimicrobial Agents and Chemotherapy, **B. Gentry**
Antiviral Research, **B. Gentry**
British Medical Journal Open, **J. Rovers**
Canadian Journal of Pharmacy and Pharmacology, **S. Munusamy**
Cellular Biochemistry and Biophysics, **S. Munusamy**
Clinical and Experimental Allergy, **G. Wall**
Current Drug Targets, **S. Munusamy**
Currents in Pharmacy Teaching and Learning, **M. Bottenberg, S. Grady, A. Kjos, A. Miesner, W. Mobley-Bukstein, M. Nelson, J. Rovers**
Drug Design, Development, and Therapy, **N. Lehman, S. Munusamy**
Epilepsia, **T Welty**
Epilepsy and Behavior, **T Welty**
Ergonomics, **S. Gnacinski**
European Journal of Sport Science, **M. Brady**
Exercise and Sport Science Reviews, **K. Huey**
Experimental Physiology, **K. Huey**
Frontiers in Physiology, **K. Huey (editor)**
Health Education, **C. Gutierrez**
Innovations in Pharmacy, **E. Dy-Boarman, M Nelson**
International Health, **J. Rovers**
International Journal of Pharmaceutical Compounding, **A. Mengesha**
International Journal of Clinical Practice, **G. Wall**
International Journal of Pharmacy Practice, **G. Wall**
International Journal of Nanomedicine, **S. Munusamy**
Journal of the American Pharmacist Association, **M. Andreski, C Clarke, A. Kjos, C. Koenigsfeld, W. Mobley-Bukstein**
Journal of Applied Physiology, **K. Huey**
Journal of Pediatric Pharmacology and Therapeutics, **E. Bell**
Journal of Pharmaceutical Sciences (J. Pham. Sci) **A. Mengesha**
Journal of Pharmacy Practice, **A. Miesner, N. Lehman, K. Percival,**
Journal of Sport Rehabilitation, **M Brady**
Journal of Strength and Conditioning Research, **S Gnacinski**
Neuropharmacology, **C. Wrenn**
Nutrition and Cancer: An International Journal, **A. Mengesha**
Open Journal of Occupational Therapy, **Y. Griffiths**
Pedigogy in Health Promotion, **C. Gutierrez**
Pharmacotherapy, **G. Wall,**
Pharmacotherapy Principles and Practice Chapter, **K. Percival**
Pharmacy Times, **K. Koenigsfeld**
PLOS One, **J. Rovers, C. Wrenn**
Psychology of Sport and Exercise, **S. Gnacinski**
Research in Social & Administrative Pharmacy, **A. Kjos, E. Ulrich**
Scientific Reports, **S. Munusamy**
Team-Based Learning Collaborative module reviewer, **E Bell**
Therapeutics and Clinical Risk Management, **G. Bryant**
U.S. Pharmacist, **L. Kassel**

REVIEWERS FOR PODIUM or POSTER SESSIONS:

AACP Annual Meeting Abstract Reviewer, **E. Bell, M. Bottenberg, S. Haack, A. Mengesha, C. Phillips**
ACCP Annual Meeting, **T. Welty**
APhA Annual Meeting Contributed Papers Reviewer, **N. Lehman**
APhA Annual Meeting Poster Judge, **N. Lehman,**
APhA Annual Meeting Abstract Reviewer, **N. Lehman, C. Clarke, W. Mobley-Bukstein, N Stelter,**
ASCP Annual Meeting Poster Reviewer, **K. Meyer**
Am Society for Microbiology Conference for Undergraduate Educators poster reviewer, **B. Gentry**
Assoc. for Applied Sport Psycholgy Annual Conference, **S. Gnacinski**
DUCURS Poster Judge, **R. Torry**
International Conference for Antiviral Research, Poster and podium reviewer, **B. Gentry**
International Social Pharmacy Workshop, **E. Ulrich**
Iowa Physiological Society Annual meeting Presentation grader, **R. Torry**
Iowa Physiological Society Annual meeting Abstract grader, **R. Torry**

REVIEWERS FOR GRANTS/AWARDS:

AACP New Investigator Award, **G. Bryant, S. Munusamy**
APhA Foundation Incentive Grants, **C. Clarke**
Iowa Science Foundation (ISF), Grants, **A. Mengesha**
Undergraduate Iowa Space Grant Awards, **K. Huey**
University Research Grant, Am Univ of Beirut College of Medicine, **S. Munusamy**

CURRENT PROFESSIONAL MEMBERSHIPS: (72 organizations)

Academy of Certified Brain Injury Specialists
Adult Medicine PRN
Allen's Cognitive Network
American Association for Advancement of Science
American Association of Biochemistry and Molecular Biology
American Association of Colleges of Pharmacy (AACP)
American Association of Diabetes Educators
American Association of Pharmaceutical Scientists (AAPS)
American College of Clinical Pharmacy (ACCP)
American College of Sports Medicine
American Economic Association (AEA)
American Epilepsy Society
American Heart Association
American Institute on the History of Pharmacy (AIHP)
American Interprofessional Health Collaborative
American Occupational Therapy Association (AOTA)
American Pharmacists Association (APhA)
American Psychological Association
American Physiological Society
American Society for Microbiology
American Society for Pharmacology and Experimental Therapeutics
American Society of Consultant Pharmacists (ASCP)
American Society of Hand Therapists
American Society of Health Economists
American Society of Health Systems Pharmacists (ASHP)
American Society of Human Genetics
American Society of Microbiology
American Sociological Association (ASA)
Association for Applied Sport Psychology (AASP)
Board of Pharmaceutical Specialties (BPS)
Christian Pharmacists Fellowship International
College of Psychiatric and Neurologic Pharmacists
Eastern Economic Association
Electronic Health Information Advisory Council
HOSA International Organization
International League Against Epilepsy
International Society for Animal Genetics (ISAG)
International Society for Antiviral Research
International Society for the Study of Xenobiotics (ISSX)
Iowa Athletic Trainers' Association
Iowa Academy of Science (IAS)
Iowa HOSA
Iowa Occupational Therapy Association (IOTA)
Iowa Pharmacy Association (IPA)
Iowa Physiological Society
Iowa Public Health Association
Iowa Rural Health Association
Kappa Psi Professional Pharmacy Fraternity
Lambda Kappa Sigma
Midwest Chapter of the American College of Sports Medicine (MWACSM)
Midwest Economic Association
National Athletic Trainers' Association
National Academy of Sports Medicine (NASM)
National Strength and Conditioning Association (NSCA)
Nebraska Occupational Therapy Association (NOTA)
Pediatric Pharmacy Advocacy Group (PPAG)

Phi Delta Chi Professional Pharmacy Fraternity
Phi Lambda Sigma National Leadership Society
Rehabilitation Engineering and Assistive Technology Society of North America
Rho Chi Pharmaceutical Honor Society
Society of Critical Care Medicine (SCCM)
Society of Environmental Toxicology and Chemistry (SETAC)
Society for Healthcare Epidemiology of America (SHEA)
Society for Neuroscience
Society of Infectious Diseases Pharmacists
Society of Public Health Education
Society of Toxicology (SOT)
STAR Research Center
Team-Based Learning Collaborative
Vestibular Disorders Association
World Federation of Occupational Therapy
Young Professionals Connection