

March 18, 2020

Dear Colleagues:

The Drake College of Pharmacy and Health Sciences would like to provide you with a summary of its scholarly activities for CY 2019. Highlights of the attached report include:

- 41 PEER-REVIEWED ARTICLES
- 41 PEER-REVIEWED PODIUM PRESENTATIONS
- 87 PEER-REVIEWED POSTERS
- 19 INVITED ARTICLES/COLUMNS
- 65 INVITED PODIUM PRESENTATIONS
- 29 INVITED POSTERS
- 9 BOOK CHAPTERS
- 96 UNDERGRADUATE/PROFESSIONAL STUDENT RESEARCH PROJECTS (MULTIPLE STUDENTS)
- 40 NEW GRANTS/CONTRACTS TOTALING **\$563,089** *

*Does not include multi-year funding with start dates prior to 2019.

This report does not include the many local, regional and national service accomplishments, practice advancements, or instructional work of the faculty.

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 2019

(COMPLETED WORK)

PEER REVIEWED ARTICLES: (41¹)

Allen AN, Wasserman E, Williams RM, Simon J, Dompier T, Kerr Z, Snyder Valier AR. Epidemiology of Secondary School Boys' and Girls' Basketball Injuries: National Athletic Treatment, Injury, and Outcomes Network. *Journal of Athletic Training* 2019;54(11):1179–1186 doi: 10.4085/1062-6050-330-18 2.

Benamer T, Osman A, Parray A, Ait Ali A, Munusamy S, Agouni A. Molecular Mechanisms Underpinning Microparticle-Mediated Cellular Injury in Cardiovascular Complications Associated with Diabetes. *Oxidative Medicine and Cellular Longevity*, vol. 2019, Article ID 6475187, 23 pages, 2019. <https://doi.org/10.1155/2019/6475187>

Bland CM, Bookstaver PB, Griffith NC, Heil EL, Jones BM, Ann Justo J, Staicu ML, Torney NP, Wall GC. A practical guide for pharmacists to successfully implement penicillin allergy skin testing. *Am J Health Syst Pharm*. 2019 Jan 25;76(3):136-147.

Branick K, Taylor MJ, Trump MW, Wall GC. Apparent interference with extracorporeal membrane oxygenation by liposomal amphotericin B in a patient with disseminated blastomycosis receiving continuous renal replacement therapy. *Am J Health Syst Pharm*. 2019 May 17;76(11):810-813. doi: 10.1093/ajhp/zxz054.

Bryant GA, Dy-Boarman EA, Kassel LE. Monitoring adherence to inhaled medications. *JAMA*. 2019;322(7):692-693.

Danielson J, Besinque K, Clarke C, Copeland D, Klinker DM, Maynor L, Newman K, et al. Essential Elements for Core Required Advanced Pharmacy Practice Experiences. *American Journal of Pharmaceutical Education*, 2019; 84 (4) Article 6865.

Diehl B, Dy-Boarman EA, Bottenberg MM, Mobley-Bukstein W, Patel A. Using a Design-Based Research Framework to Refine a Desirable Difficulties Activity for Sterile Compounding in a Skills-Based Laboratory Course. *Curr Pharm Teach Learn*. 2019; 19 Nov [epub ahead of print].

Draker N, DS Torry, RJ Torry. Placenta Growth Factor and sFlt-1 as Biomarkers in Ischemic Heart Disease and Heart Failure: A Review. *Biomarkers in Medicine*, Jun;13(9):785-799, 2019. doi: 10.2217/bmm-2018-0492.

Drettwan JJ, Kjos AL. An Ethical Analysis of Pharmacy Benefit Manager (PBM) Practices. *Pharmacy*. 2019; 7(2), Special Issue:65. <https://doi.org/10.3390/pharmacy7020065>

Gentry BG, Bogner E, Drach JC. Targeting the Terminase: An Important Step Forward in the Treatment and Prophylaxis of Human Cytomegalovirus Infections. *Antiviral Research* 161: 116-124 (Peer-Reviewed, Invited Article; Review Article).

Gnacinski, SL, Janes, M, & Newman, N. Factor structure and measurement invariance of the Intragroup Conflict Scale: Validation in athletic trainer and coach populations. *Meas Phys Educ Exerc Sci*. 2019;31:1-9.

Haack S, Mazar I, Carter EM, Addo-Atuah J, Ryan M, Salazar Preciado LL, Gonzalez Lucano LR, Barrera Ralda AL. Cultural Sensitivity and Global Pharmacy Engagement in Latin America: Argentina, Brazil, Ecuador, Guatemala, and Mexico. *American Journal of Pharmaceutical Education* 2019; 83 (4).

Haas, M, Haas, L, Knoke, K, Andreski, M, "Rural Physician-Pharmacist Collaborative Practice Agreements Managing Patients in Supportive Living and Assisted Living Memory Care Facilities", *Innovations in Pharmacy*; 2019 November;10(4) <https://doi.org/10.24926/iip.v10i4.1371>

Hess, C.W., Gnacinski, S.L., & Meyer, B.B. (2019). A review of the sport injury and rehabilitation literature: From abstraction to application. *The Sport Psychologist*, 33, 232-243.

Huang, C, Doucette, W, Andreski, M, Pudlo, A, "Patient Experiences at Enhanced -Service Pharmacies in Iowa", *Innovations in Pharmacy*; 2019 April;10(2) <https://doi.org/10.24926/iip.v10i2.1530>

Kassel LE, Hutton A, Zumach G, Rand J. Systematic Review of Perioperative Use of Immunosuppressive Agents in Patients Undergoing Bariatric Surgery. *Surg Obes Relat Dis* 2019; Oct 11. Epub ahead of print

Kassel LE, Jones C, Mengesha A. "Epinephrine Drug Degradation in Auto-Injector Products". *Journal of Allergy and Clinical Immunology (JACI): In Practice*. September/October 2019;7(7):2491-3.

Kassel LE, Jones C, Mengesha A. Evaluation of epinephrine's expiration date: A US Food and Drug Administration's perspective. Correspondence and Reply. *J Allergy Clin Immunol Pract* 2019; 7(8): 2948 – 2949. <https://doi.org/10.1016/j.jaip.2019.08.015>

Kjos AL, Bryant GA. Communication networks of medication management in an ambulatory care setting. *Res Social Adm Pharm*. 2019; 15(2):182-92.

Kjos AL, Schmidt G. Communication Networks of Medication Management in an Ambulatory Care Setting. *Research in Social and Administrative Pharmacy*. 2019; 15(2): 182-192. <https://doi.org/10.1016/j.sapharm.2018.04.010>

¹ **Student co-authors are underlined**

- Kjos AL, Vaughan AG, Bhargava A. Impact of a Mobile App on Medication Adherence and Adherence-related Beliefs in Patients with Type 2 Diabetes. *Journal of the American Pharmacists Association*. 2019; 59(2)
- Lacy MC, Bryant, GA, Herring MS, Koenigsfeld CF, Lehman NP, Smith HL. Implementation and evaluation of pharmacy-driven transition of care intervention for patients discharged from emergency department. *J Am Coll Clin Pharm* 2019;2:8-13.
- Leeson W, Resnick A, Alexander D, Rovers J. Natural language processing (NLP) in qualitative public health research: A proof of concept study. *Int J Qual Method*. 2019;18:1-8 DOI: 10.1177/1609406919887021
- Maamoun H, Benameur T, Pintus G, Munusamy S, Agouni A. Crosstalk Between Oxidative Stress and Endoplasmic Reticulum (ER) Stress in Endothelial Dysfunction and Aberrant Angiogenesis Associated with Diabetes: A Focus on the Protective Roles of Heme Oxygenase (HO)-1. *Frontiers in physiology*. 2019;10(70).
- Martin LG, Warholak TL, Hincapie AL, Gallo T, Kjos AL. Health Informatics Competencies for Pharmacists in Training. *American Journal of Pharmaceutical Education*. 2019; 83(2):180-188. doi.org/10.5688/ajpe6512
- McFadgen K, Jensen N, Mahajan PB. (2019) 'Application of pharmacogenomics for trauma and critical care patients: A case report' *Trauma Case Reports*, 24:100266. <https://doi.org/10.1016/j.tcr.2019.100266>.
- McNamara K, Witry M, Bryant G, Koenigsfeld C, Lehman N, Logeman C, Mormann M, Rueber A, Herring M, Hoehns, J. A prospective, multi-center cohort study: investigating the ability of warfarin-treated patients to predict their INR. *Clin Res Cardiol* 2019;108(2):212-217.
- Munusamy S, Osman A, Riaz S, Ali S, Mraiche F. The use of Socrative and Yammer online tools to promote interactive learning in pharmacy education. *Currents in Pharmacy Teaching and Learning*. 2019, 11(1):76-80.
- Parenky AC, Mulla NS, D'Souza MJ. Harnessing T-cell activity against prostate cancer: A therapeutic microparticulate oral cancer vaccine. *Vaccine*. 2019 Sep 24;37(41):6085-92.
- Pasha M, Sivaraman SK, Frantz R, Agouni A, Munusamy S. Metformin Induces Different Responses in Clear Cell Renal Cell Carcinoma Caki Cell Lines. *Biomolecules*. 2019; 9(3) 113.
- Pelaez CA, Spilman SK, Bell CT, Eastman DK, Sidwell RA. Not all head injured patients on antiplatelet drugs need platelets: Integrating platelet reactivity testing into platelet transfusion guidelines. *Injury* 2019;50:73-78.
- Plutschack, D., & Kuhl, N. (2019). Student Perceptions of Replacing Textbooks With a Mobile Application in the Classroom. *Archives of Physical Medicine and Rehabilitation*, 100(12). doi: 10.1016/j.apmr.2019.10.124
- Rathinam A, Pari L, Venkatesan M, Munusamy S. Myrtenal attenuates oxidative stress and inflammation in a rat model of streptozotocin-induced diabetes. *Archives of Physiology and Biochemistry*. 2019:1-9. (Published online: 28 Sep 2019)
- Ravindran S, Pasha M, Agouni A, Munusamy S. Microparticles as Potential Mediators of High Glucose-Induced Renal Cell Injury. *Biomolecules*. 2019; 9(8), 348.
- Rover, J, Andreski, M, Becker, M, Gray, J, "Short-term medical service trips: what is the cost of patient care and student training?", *International Health*, 2019, 00:1-4; <https://doi.org/10.1093/inthealth/ihz110>
- Ulrich, E.; Hurdelbrink, J.; Perepelkin, J.; Welter, K. "Financial Incentive Required for Pharmacy Students to Accept a Post-Graduation in Rural and Undesirable Pharmacy Settings." *Pharmacy* 2019, 7, 109.
- Vaidya B, Shukla SK, Kolluru S, Huen M, Mulla N, Mehra N, et al. Nintedanib-cyclodextrin complex to improve bio-activity and intestinal permeability. *Carbohydr Polym*. 2019 Jan 15;204:68-77.
- Vollmer KJ, Burns AC, Sauer HE, Williams JD, Komazin-Meredith G, Cardinale S, Butler M, Aron Z, Hussein I, Busch MG, Bowlin TL, Gentry BG. Activation of 6-Alkoxy-Substituted Methylenecyclopropane Nucleoside Analogs Requires Enzymatic Modification by Adenosine Deaminase-Like Protein 1. *Antimicrobial Agents and Chemotherapy*: 2019 Sep 23;63(10).
- Wall GC, Sharma V, Taylor MJ, Schneider R, Adams K, Gaspari L, Lukenbill JC. Retrospective Safety Evaluation of a Pharmacist-Assisted Total Dose Iron Sucrose Protocol in Hospital Inpatients With Iron Deficiency Anemia. *Journal of Pharmacy Practice*. <https://doi.org/10.1177/0897190019885239>
- Welty TE, Chapman KE, Faught RE Jr, Kotloski RJ. American epilepsy Society (AES): Writtent Comments to Normand E "Ned" Sharpless MD Acting Commissioner of Food and Drugs US Food and Drug Administration (FDA) Department of Health Human Services (HHS) on Docket ID# FDA-2019-N-1482 Scientific Data and Information about Products Containing Cannabis or Cannabis-Derived Compounds: Public Hearing Request for Comments Submitted on July 16 2019. *Epilepsy Curr* 2019;19(6):361-368.
- Williams RM, Welch Bacon CE, Kucera K, Valier AR. Athletic Trainers' Knowledge Of The Appropriate Care Of Spine Injured Athletes. *Athletic Training and Sports Healthcare*. 2019.;11(6):288-296.doi:10.3928/19425864-20190218-01

Allen-McHugh, R. D. The Intentional Relationship: Use of self in OT. Oral presentation. Presented at Iowa Occupational Therapy Association Conference, September, 27 2019, Waterloo, IA

Andreski M, Myers M, Gainer K, Pudlo A, The Iowa New Practice Model: Full Implementation of an Initiative to Enable Pharmacists to Provide More Patient Care Services. Poster presented at ESAS brief podium/talking poster session at the 165th Annual Meeting of the American Pharmacists Association, Seattle, WA, March 23, 2019

Caroline Jones, Lynn Kassel and Abebe Mengesha, Quantitative determination of epinephrine and its degradation products using high performance liquid chromatography after forced degradation and time. 16th Annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS), April 11, 2019. Des Moines, IA. (presented by Caroline Jones)

Clarke C. Development and Implementation of a Mentored Teaching Experience to Increase Preceptor Confidence When Providing Feedback, American Pharmacists Association 2019 Annual Meeting, Seattle, Washington, March 24, 2019.

Clarke C. Improving Preceptor Feedback Skills in 75 Minutes or Less. Schott K, Clarke C. American Association of Colleges of Pharmacy 2019 Annual Meeting, Chicago, Illinois, July 14, 2019.

Eiland L, Haack S, Malcom D, Marlowe K, Tran E, Hamilton L. Faculty to Faculty Mentoring - It is Not a "One Size Fits All". AACP Annual Meeting. Chicago, IL. July 2019.

Fornoff, A. "Incorporating a Community Engaged Learning Project into a LGBTQ Health Course." Midwest Campus Compact Conference. Minneapolis, Minnesota. May 2019.

Fornoff, A. "Medications Used for Depression, Anxiety, and Sleep." 7th Annual Gerontology Conference Mental Health Issues in the Older Adult. Des Moines, Iowa. October 2019.

Fornoff, A. Crowe, C. Sedlecheck, R. "A Scaffold Approach to Faculty and Staff Development: Using an Experiential Design to Build a Community of Practitioners for Community-Engaged Learning." Minneapolis, Minnesota. May 2019.

Gnacinski, S., Meyer, B., Nai, M., Wahl, C., & Brenner, V. (2019, October). A systems-based approach to recovery intervention in elite sport environments. Symposium delivered at the annual meeting of the Association for Applied Sport Psychology, Portland, OR, USA.

Grady, SE. Antipsychotic update: considering adverse effects, monitoring parameters, drug interactions, newer medications, and newer formulations to better manage unmet needs. Presented at: Iowa Psychiatric Society Fall Conference; October 11, 2019; Iowa City, Iowa.

Grady, SE. PSAP live: optimizing treatment with antidepressants and antipsychotics. Presented at: ACCP Annual Meeting; October 28 & 29, 2019; New York, New York.

Gutierrez, C. (2019, April). Designing curriculum and fostering collaborations to implement a lay patient advocate training in tribal communities. Presented at the Iowa Governor's Conference on Public Health in Des Moines, IA.

Gutierrez, C., Schwietz, K. & Wolff, B. (2019, March). Using photovoice with undergraduate public health and health sciences students to facilitate understanding of and dialogue about health disparities within communities. Presented at the Undergraduate Public Health and Global Health Education Summit in Arlington, VA.

Haack S, Kieran L. Introducing the PRELOAD Rubric: A Tool to Evaluate Syllabi for Elements of Service-Learning. Midwest Campus Compact Conference. Minneapolis, MN. May 2019.

James S, Gentry B, Drach J, Prichard M. Inhibition of DNA Viruses by Ribosylindole Nucleosides. Presented at: 32nd Annual International Conference on Antiviral Research; May 13, 2019; Baltimore, MD.

Johnston, S. P. (2019, November). Cultural Considerations Related to Mental Health Screenings in a Medically Underserved Community in Peru. Presented at the 11th annual Heartland Global Health Conference: Health Access, Rights, Risk, and Barriers. Mercy College of Health Sciences, Des Moines, Iowa.

Karch C, Frantz R, Carnevale K, Munusamy S. Renoprotective Effects of Metformin in a Mouse Model of Accelerated Diabetic Nephropathy. Des Moines University Research Symposium, Des Moines, Iowa, USA. (Student Researcher Oral Presentation)

Koenigsfeld, CF, Lewis J. "Exploring the Clinical Benefits of Antiviral Therapy in Decreasing Complications Associated with the Influenza Virus." American Pharmacist Association Annual meeting, Seattle, WA., March 2019.

Koenigsfeld, CF. "Examining the Economic Data Associated With Early Influenza Intervention With Antiviral Therapy." National Association of Specialty Pharmacy Annual meeting, Washington, DC, September 2019.

Lehman N. Guideline Update Series: 2019 American Diabetes Association (ADA) Standards of Medical Care in Diabetes Peer reviewed continuing education webinar. Available at: www.ceimpact.com. Developed June 2019

Lehman N. Implementation and Evaluation of a Pharmacy Driven Transitions of Care Program for Patients Discharged from the Emergency Department Peer reviewed PharmTalk session presented at APHA Annual Meeting; March 2019; Seattle, WA.

Mahajan, Pramod B. Essentials of Successful Study Abroad Courses at the Iowa International Education Conference held at the Des Moines University on April 25, 2019.

Mahajan, Pramod B. Pharmacogenomics: An Evidence Based Approach to Precision Medicine. A continuing education course at MercyOne, Des Moines, IA. February 25, 2019.

Mahajan, Pramod B. Pharmacogenomics: An Evidence Based Approach to Precision Medicine. A seminar for the Mercy Psychiatry residency Program, April, 2019.

Mahajan, Pramod B. Pharmacogenomics: An Evidence Based Approach to Precision Medicine. Brodlawns Medical Center, Des Moines IA August 1, 2019.

Mahajan, Pramod B. Pharmacogenomics: An Evidence Based Approach to Precision Medicine. Health Coaching Conference at MercyOne. Sept. 17, 2019.

Meyer, KS, Mobley-Bukstein, W. "Advances in Diabetes Management for Older Adults" ASCP Annual Meeting 2019, Grapevine, TX. November 9, 2019.

Miesner AR. Bad to the Bone: Oral versus IV Antibiotics for Bone and Joint Infection. Presented as a webinar live and on-demand for the CEI Login to Learn series. August 14, 2019; Des Moines, IA. 0.15 CEUs. ACPE # 0107-0000-19-265-L01-P.

Mobley-Bukstein, W. "Nutrient Depletion: A Clinical Review" McKesson IdeaShare 2019; Orlando, FL. June 26, 2019.

Mobley-Bukstein, W. "Treating Diabetes...Where Do I Start? Non-insulin medications for the treatment of T2DM" Iowa Physician Assistant Society Annual Meeting, Des Moines, IA April 15, 2019.

Plutschack, D. (September 27, 2019). Ergonomics and hand therapy: Incorporating health and wellness in outpatient occupational therapy practice. Iowa Occupational Therapy Association Conference 2018. Waterloo, IA.

Rovers J. Healthcare access in Latin America. Panel discussion at Heartland Global Health Conference, Mercy College of Health Sciences, Des Moines, IA, November 5, 2019.

Rovers J. Traditional and complementary medicines in the Global South: Is science making access worse? Invited presentation at Heartland Global Health Conference, Mercy College of Health Sciences, Des Moines, IA, November 15, 2019.

Shuger Fox, S., Haack, S., Johnston, S. P. & Rovers, J. (2019, November). Health Care Access in Latin America: Status and Challenges. Presented at the 11th annual Heartland Global Health Conference: Health Access, Rights, Risk, and Barriers. Mercy College of Health Sciences, Des Moines, Iowa.

Ulrich E, Jonathan Hurdelbrink, Jason Perepelkin and Kelli Welter. "Financial Incentive Required for Pharmacy Students to Practice Post-Graduation in Different Practice and Geographic Settings." Presented at the Midwest Economics Association Meetings, St. Louis, MO, Mar. 15 – 17, 2019.

Urish, C. - AOTA Children & Youth Specialty Conference – Youth Mental Health First Aid – Orlando, FL – 8 hour training - July 24, 2019

Urish, C., Christiansen, B., Schroeder, H., Bryan, J., Stephens, A., Neff, J., Steffens, A., Aspengren, G., Dubree, K., McCalley, A., Clavell, H.: - Occupation Station - AOTA/NBCOT Student Conclave – Chicago, IL – 1 hour presentation, November 2, 2019

Vollmer K, Burns A, Sauer H, Williams J, Komazin-Meredith G, Busch M, Bowlin T, Gentry B. Enzymatic Removal of a Butyl-Ether Moiety by Adenosine Deaminase-Like Protein 1, a Necessary Step in the Mechanism of Action of MBX-2168. Presented at: Iowa Space Grant Consortium Student Research Symposium; March 11, 2019; Drake University, Des Moines, IA.

Vollmer K, Burns A, Sauer H, Williams J, Komazin-Meredith G, Busch M, Bowlin T, Gentry B. Enzymatic Removal of a Butyl-Ether Moiety by Adenosine Deaminase-Like Protein 1, a Necessary Step in the Mechanism of Action of MBX-2168. Presented at: 16th Annual DUCURS; April 11, 2019; Drake University, Des Moines, IA.

Vollmer K, Hagen N, Sauer H, Nguyen M, Busch M, Bowlin T, Gentry B. The Role of Adenosine Deaminase-Like Protein 1 in the Activation of MBX-2168, an Experimental Broad-Spectrum Anti-Herpes Agents. Presented at: 10th Biennial All-Iowa Virology Symposium; March 9, 2019; University of Iowa, Iowa City, IA.

PEER REVIEWED POSTERS: (87)

Abraham S, Gossen K, Kassel LE, Hubble M. Assessment of MercyOne West Des Moines discharges before finalized cultures. Abstract 6-082. American Society of Health-Systems Pharmacists. Las Vegas, NV. December 2019.

Allen-McHugh, R. D. Active Yoga and Ergonomic Intervention in the Workplace: A pilot study. Poster presentation. Presented at Iowa Occupational Therapy Association Conference, September, 27 2019. Waterloo, IA

Allen-McHugh, R. D. and Weiland, C. Exploring Faculty Supervised Clinical Models: Supporting competence and competence in OTD students. Poster presentation. Presented at Iowa Occupational Therapy Association Conference, September, 27 2019. Waterloo, IA

Andreski M, Myers M, Gainer K, Pudlo A, The Iowa New Practice Model: Full Implementation of an Initiative to Enable Pharmacists to Provide More Patient Care Services. Poster presented at the Iowa Pharmacy Association 2019 Annual Meeting, Cedar Rapids, IA, June 20, 2019.

Andreski M, Myers M, Gainer K, Pudlo A, The Iowa New Practice Model: Full Implementation of an Initiative to Enable Pharmacists to Provide More Patient Care Services. Poster presented at the 165th Annual Meeting of the American Pharmacists Association, Seattle, WA, March 23, 2019

Anis, M., Schweinle, W., Wolff, B., & Gutierrez, C. (2019, June). Effectiveness of teaching patient safety and quality improvement to undergraduate health science students. Presented at the 3rd Annual Eastern South Dakota Research Symposium in Sioux Falls, SD.

Bottenberg M, Koenigsfeld C, Lehman N, Engbring E, Kukacka A. Identification of Top Drug Information Assessment within United States PharmD Curricula. Presented at AACP Annual Meeting. Chicago, Illinois. June 2019.

Brady MP, Gnacinski SL, Newman N, Melcher N (2019, June). Synthetic model knee and Lachman test accuracy: the role years of experience, profession, and given integrity fulfill. Poster presented at: 70th National Athletic Trainers Association Annual Meeting and Symposium; June 24-26, 2019; Las Vegas, NV.

Brown, C., Mock, E., Roe, M., Schulz, L., Hove, K., & Jones, J. Implementation of biofeedback interventions for treatment of adults with post-concussion syndrome. American Occupational Therapy Association 99th Annual Conference. Boston, MA. March 2020.

Bryant G, Dy-Boarman E, Herring S. Faculty preceptors' strategies for evaluating and teaching clinical reasoning skills in the advanced pharmacy practice experience (APPE) setting. (Encore) Presented at: American College of Clinical Pharmacy Annual Meeting. October 2019; New York, NY.

Bryant G, Dy-Boarman E, Herring S. Faculty preceptors' strategies for evaluating and teaching clinical reasoning skills in the advanced pharmacy practice experience (APPE) setting. Presented at: Iowa Pharmacy Association Annual Meeting. June 2019; Cedar Rapids, IA.

Bukstein, W and Schwarz, M. Creating a Validated Tool to Identify individuals for Medication Management Services; abstract submitted, accepted and presented October 27, 2019 at American College of Clinical Pharmacists Annual Meeting, New York, NY.

Clarke C. Residency Application Information Regarding Advanced Pharmacy Practice Experiences Considered Desirable or Necessary by Program Directors, American Association of Colleges of Pharmacy 2019 Annual Meeting, Chicago, Illinois, 2019.

Clarke C. Variation by PGY1 Residency Type in Desirability and Necessity of APPE-related Application Information. American Association of Colleges of Pharmacy 2019 Annual Meeting, Chicago, Illinois, 2019.

Cornell, D.J., Gnacinski, S.L., & Ebersole, K.T. (2019, January). Longitudinal changes in functional movement quality among firefighter recruits: An observational cohort study. Poster presented at the American Physical Therapy Association Combined Sections Meeting, Washington, DC, USA.

Cornell, D.J., Gnacinski, S.L., & Ebersole, K.T. (2019, May). Longitudinal changes in single-leg dynamic balance asymmetries among firefighter recruits: An observational cohort study. Poster presented at the annual meeting of the American College of Sports Medicine, Orlando, FL, USA.

Drapeaux, A, Carlson, K. The effect of manual therapy on joint kinematics during running: A case study. Poster presented at: Annual Conference for American Osteopathic Academy of Sports Medicine; May 1st, 2019; Austin, TX

Drapeaux, A, Gutierrez, C, Hurdlebrink, J. The effects of a 10 week exercise and nutritional program on quality of life measures. International Conference on Health, Wellness & Society. September 20th, 2019. Berkley, CA.

Edler, J, Viesselman C, Bottenberg MM, Ronnebaum J, Fiala M, Bush K "Interprofessional Education Collaborative: Creating IPE Opportunities Across Institutions." Presented at the NATA Athletic Training Educators' Conference, Grapevine, TX, February 2019.

Fischbach, J. and Allen-McHugh, R. Caring for the Caregiver of Individuals with ALS. Poster presentation. Presented at American Occupational Therapy 2019 Conference. April 6, 2019. New Orleans, LA

Fornoff, A. Haack, S. "Incorporating Community Engaged Learning in Pharmacy Elective Courses to Enhance Student Learning About Minoritized Populations," American Association of Colleges of Pharmacy Annual Meeting. Chicago, Illinois. July 2019.

Frantz R, Pasha M, Agouni A, Munusamy S. Differential Anticancer Effects of Metformin Against Renal Cell Carcinoma. 16th Annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS), Drake University, 2019, Des Moines, Iowa, USA.

Gnacinski, SL, Nai, M, Meyer, BB, Brady, MP, & Newman, N. Examining recovery experience predictors of National Collegiate Athletic Association athletic trainers' stress. Poster presented at: Association for Applied Sport Psychology Annual Conference; October, 2019; Portland OR.

Gutierrez, C. & Lancaster, H. (2019, April). Lessons learned from a community based participatory research project engaging faculty, students, and community members to assess, collaborate, and empower to improve water quality in rural Uganda. Presented at the Unite for Sight Annual Conference in New Haven, CT.

Gutierrez, C. & Lancaster, H. (2019, March). Lessons learned from a community based participatory research project engaging faculty, students, and community members to assess, collaborate, and empower to improve water quality in rural Uganda. Presented at the Undergraduate Public Health and Global Health Education Summit in Arlington, VA.

Gutierrez, C., Lancaster, H., Senteza, J., & Levi, P. (2019, April). Assessing, collaborating, and empowering to improve water quality in rural Uganda. Presented at the Iowa Governor's Conference on Public in Des Moines, IA.

Gutierrez, C., Rupe, E., Reed, C., & Wolff, B. (2019, May). Compression-Only CPR: Using mini training sessions to increase the knowledge and confidence of rural college students to administer care. Presented at the National Rural Health Association's 42nd Annual Conference in Atlanta, GA.

Gutierrez, C., Schwietz, K., & Johnston, S. (2019, March). Assessing the core public health competencies of undergraduate health sciences students. Presented at the 2019 Undergraduate Public Health and Global Health Education Summit in Arlington, VA.

Gutierrez, C., Schwietz, K., & Johnston, S. (2019, May). Fit for public health service: Assessing The core public health competencies of rural undergraduate health sciences students. Presented at the National Rural Health Association's 42nd Annual Conference in Atlanta, GA.

Gutierrez, C., Vogt, B., Memmott, J., & Giger, J. (2019, March). Lessons learned from designing curriculum and fostering collaborations to implement a lay patient advocate training in tribal communities. Presented at the 2019 Undergraduate Public Health and Global Health Education Summit in Arlington, VA.

Haack S. Global Health Elective: Application of International Strategic Objectives. School poster presentation at the AACP Annual Meeting. Chicago, IL. July 2019.

Haberman E, Harding H, Kassel LE, Hubble M. Perceptions of valuable applicant attributes by pharmacy residency preceptors of a single institution. Abstract 6-076. American Society of Health-Systems Pharmacists. Las Vegas, NV. December 2019.

Hagen NR, Sauer HE, Nguyen ML, Bowlin TL, Gentry BG, Pentostatin Antagonizes the Anti-Viral Activity of MBX-2168 by Inhibiting the Biosynthesis of Active Compound. 16th Annual DUCURS (2019).

Hagen NR, Sauer HE, Nguyen ML, Bowlin TL, Gentry BG, Pentostatin Antagonizes the Anti-Viral Activity of MBX-2168 by Inhibiting the Biosynthesis of Active Compound. 32nd Annual International Conference on Antiviral Research (2019).

Hove, K., Jones, J., Brown, C., Mock, E., Roe, M. & Schulz, L. Improving emotional regulation through biofeedback in post-concussion syndrome. American Congress of Rehabilitation Medicine 96th Annual Conference. Chicago, IL. November 2019.

Huey, KA, Newman, N. and Gnacinski, S. Interactive Activities to Learn About Muscle Power and Balance for 4th and 5th Graders, American Physiological Society Phun Week Poster Session, Experimental Biology Meeting, April 6-9 2019.

James SH, Hartline CB, Harden EA, Townsend LB, Drach JC, Gentry BG, Prichard MN, Inhibition of Human Cytomegalovirus by Ribosylindole Nucleosides. 7th International Congenital CMV Conference & 17th International CMV Workshop (2019).

Janke KK, Bechtol RA, Dy-Boarman E, Nelson MH. What differentiates exceptional new pharmacy practitioners? Presented at: American Association of Colleges of Pharmacy Annual Meeting. July 2019; Chicago, IL.

Karch C, Carnevale K, Munusamy S. Nephroprotective Effects of Metformin in a Mouse Model of Diabetic Nephropathy. Annual Meeting of the Central States Chapter of the Society of Toxicology (CSSOT), Drake University, 2019, Des Moines, Iowa, USA.

Knobbe K, Johnson A, Mueller E, Phillips C. Systematic Review of Electronic Nicotine Delivery System Use in COPD. 2019 IPA Annual Meeting Poster session; Iowa City, IA, June 2019.

Lacy MC, Bryant GA, Herring MS, Koenigsfeld CF, Lehman NP, Smith HL. Implementation and Evaluation of a Pharmacy Driven Transitions of Care Program for Patients Discharged from the Emergency Department. American Pharmacists Association Annual Meeting, Seattle, WA. March 2019.

Lin M, Haack S. Implementing Diabetes Group Visits and Text Messaging in a Community Health Center to Improve Diabetes Outcomes. Poster presentation at the Iowa Governor's Conference on Public Health. Des Moines, IA April 2019.

Marceau A, Blum L, Kassel LE, Hubble M. Brabeck L. Assessment of utilization of iron studies to provide intravenous iron supplementation. Mercy College of Health Sciences Research Symposium. March 2019.

McCormick A, Miesner AR, Dhillon S, Karpen R, Monzel C, Olson A. Relationship between undergraduate involvement in pharmacy organizations and pharmacy school admittance. Poster presentation at the American College of Clinical Pharmacy. October 26, 2019; New York, NY.

Mobley-Bukstein, W, Meyer KS; Conversion of Insulin Glargine to Insulin Detemir in Older Adults; abstract submitted, accepted and presented March 23, 2019 at American Pharmacists Association Annual Meeting, Seattle, WA.

Moore B, Sacco J. Identification and sequencing of the glutathione S-transferase gene P1 (GSTP1) in the domestic cat. Poster presented at the Annual Meeting of the Central States Chapter of the Society of Toxicology, Des Moines, IA, September 26th-27th, 2019. Winning poster in the undergraduate student category.

Mueller E, Torry R, Maki ED. Assessing Subject Awareness of Recent Changes to Hypertension Goals. Student Poster – ASHP Midyear Clinical Meeting. Las Vegas, NV 2019

Munusamy S, Pasha M, Frantz R, Agouni A. Differential Selectivity of Renal Clear Cell Carcinoma Cell Lines to the Antineoplastic Effects of Metformin. The FASEB Journal 2019; 33 (1 Supplement), 675.7. (Presented at the Experimental Biology Conference 2019, Orlando, Florida, USA).

Nai, M, Gnacinski, SL, Newman, N, & Meyer, BB. Examining recovery experience among NCAA coaches. Poster presented at Association for Applied Sport Psychology Annual Conference; October 2019; Portland OR.

Noteboom A, Grady SE. Stress perception in health professional students. Poster presented at: CPNP Annual Meeting; April 2019; Salt Lake City, Utah.

Peeters, MJ, Cor, KM, Maki ED. Providing Validation Evidence for a Clinical-Science Module: Improving Testing Reliability With Quizzes. AACP Annual Meeting, Chicago, IL 2019

Pitlick J, Hadsall K, Kassel LE, Daly M, Rand J, Smolik M. Predicting insulin dosing patterns after bariatric surgery. Poster. American College of Clinical Pharmacy. New York, NY. October 2019.

Pitlick JM, Bryant GA, Daly M, Koenigsfeld C, Lehman N, Brueggen K, McCormick A, Wellington K. Evaluation of dosing in patients undergoing conversion from insulin glargine (Lantus) to insulin glargine (Basaglar). Presented at the 2019 ACCP Annual Meeting. New York, NY. October 2019.

Plutschack, D. (April 5, 2019). Current best practices for treatment of lateral epicondylitis. Poster presentation. American Occupational Therapy 2019 Conference. New Orleans, LA

Plutschack, D. & Kuhl, N. (November 6, 2019). Student perceptions of replacing textbooks with a mobile application in the classroom. Poster presentation. American Congress of Rehabilitation Medicine 2019 Conference. Chicago, IL

Plutschack, D. & Kuhl, N. (September 27, 2019). Occupational therapy education for future generations: Integrating mobile applications within the classroom. Poster presentation. Iowa Occupational Therapy Association 2019 Conference. Waterloo, IA

Plutschack, D., Allen-McHugh, R. D., Botten, E., Lefler, R., Schankerman, S., Fletchall, H. (April 5, 2019). Active principles of health and wellness in the workplace: Literature review. Poster presentation. Presented at American Occupational Therapy 2019 Conference. April 5, 2019. New Orleans, LA

Pramod Mahajan, Michael Ohman, Amanda Hoerres and Allison Golbach. SoapyCilantro® AFLP Assay: A facile genomics education tool for students, STEM educators and health care professionals. 72nd Annual Meeting of the American Society of Human Genetics; October 14-19, 2019 Houston, Tx.

Reiter D, Ulrich E, Welter K. Pharmacy students' desired post-graduation job and lifestyle attributes and confidence choosing from potential job offers in the NABP/AACP District 5 Region. American Association of Colleges of Pharmacy Annual Meeting. July 13-16, 2019. Chicago, Illinois.

Reiter, D, McKay, D, Mahajan, P, Stelter, N, Mobley-Bukstein, W, Ross, N. Ayurvedic approaches for the treatment and management of pain. Iowa Pharmacy Association Annual Meeting. Cedar Rapids, IA. June 2019.

Resnick A, Leeson W, Alexander A, Rovers J. Natural Language Processing in Qualitative Public Health Research. Poster presented at: Iowa Governor's Public Health Conference, April 23, 2019. Des Moines, IA.

Sankaralingam S, Munusamy S, Ramanjaneya M, Cyprian F. Hesperetin Prevents Methylglyoxal-Induced Insulin Resistance in Cardiomyocytes Via Induction of Glyoxalase 1. Canadian Journal of Cardiology. 2019;35(10):S32. (Presented at the Canadian Cardiovascular Congress 2019, Montreal, Quebec, Canada).

Schott K, Clarke C. CPD for CPD: Lessons Learned in Implementing a Professional Development Course Series, American Association of Colleges of Pharmacy 2019 Annual Meeting, Chicago, Illinois, 2019.

Schott K, Clarke C. Utilizing a Mentored Teaching Experience to Improve Preceptor Feedback Skills, American Association of Colleges of Pharmacy 2019 Annual Meeting, Chicago, Illinois, 2019.

Schroeder R and Abebe Mengesha, Analysis of a Binary Blend Lipid Matrix System of Glyceryl Monostearate and Glyceryl Monooleate for Thermally Sensitive Drug Delivery System. 24th Annual Meeting of the Iowa Physiological Society (IPS), Nov. 1 – 2, 2019, Iowa City, IA.

Shtaynberg J, Skrabal M, Oswald C, Clarke C, Clauson A, Gilliam E, Jarrett J, et al. Assessment of APPE Grading Schemes: Implications for Residency Placement, American Society of Health-System Pharmacists National Pharmacy Preceptors Conference, Dallas, Texas, October 18, 2019.

Shtaynberg J, Skrabal M, Oswald C, Clarke C, Clauson A, Gilliam E, Jarrett J, et al. Assessment of APPE Grading Schemes Used by ACPE Accredited Pharmacy Schools and Colleges, American Association of Colleges of Pharmacy 2019 Annual Meeting, Chicago, Illinois, 2019.

Skrukpy LP, Dy-Boorman EA, Gurgle H, Isaacs A, McCreary EK, Nisly S, Paloucek F, Peterson DM, Smith A, Schramm G. Letters of reference for residency candidates: an ACCP education and training PRN survey of PGY1 residency program directors. Presented at: American College of Clinical Pharmacy Annual Meeting. October 2019; New York, NY.

Stelter N, Mobley-Bukstein W, Bottenberg MM, Meyer V, Welter K, Amundson L, Heitkamp T, Reiter D, Gannon E, Vollmer N, Spyrka K. An assessment of student pharmacist awareness, utilization, and satisfaction of university wellness resources. Iowa Pharmacy Association Annual Meeting. Cedar Rapids, IA. June 2019.

Stelter N, Mobley-Bukstein W, Bottenberg MM, Meyer V, Welter K, Amundson L, Heitkamp T, Reiter D, Gannon E, Vollmer N, Spyrka K. An evaluation of student pharmacist wellness and wellness services provided at a private university. American Pharmacists Association Annual Meeting. Seattle, WA. March 2019.

Stelter N, Mobley-Bukstein W, Bottenberg MM, Meyer V, Welter K, Amundson L, Heitkamp T, Reiter D, Gannon E, Modrell B. Employee perceptions of pharmacist faculty and student pharmacist-delivered medication management services. American Pharmacists Association Annual Meeting. Seattle, WA. March 2019.

Sulkowski, B.A., LeBlanc, H.R., Williamson, A.C., Rohr, B.V., Gentry, B.G., Wrenn, C.C. Social learning and social behavior of the triple-transgenic mouse model of Alzheimer's disease. Poster presented at Society for Neuroscience, October 2019, Chicago, IL.

Swanson P, Manlick M, Kassel LE, Hubble M, Smolik M. Assessment of MercyOne bariatric postoperative surgical site infection and perioperative antibiotic choices. Abstract 6-081. America Society of Health-Systems Pharmacists. Las Vegas, NV. December 2019.

Sykuta A, Kassel L, Ulrich E. A comparative analysis of stigma toward mental illness among pharmacists in the Midwest. College of Psychiatric & Neurologic Pharmacists Annual Meeting. April 7-10, 2019. Salt Lake City, Utah.

Temperly, M., Conroy, Z., and K.A. Huey. Effect of statins on muscular and cardiorespiratory adaptations to treadmill training in hypercholesterolemic mice. Experimental Biology Meeting, April 6-9 2019. FASEB J., 33:868.9

Urish C. Mindfulness & Zentangle – Science, Health & Happiness – poster presentation - AOTA Annual Conference – New Orleans, LA - April 2019

Urish, C., Barron, A., Hichwa, S., McDonald, L, Rowell, M., Riedel, M., Windsor, A. An exploration of mindfulness programming for emerging adults entering health professions - poster presentation - AOTA Annual Conference, New Orleans, LA - April 2019

Urish, C., Brantley, K., & Gilroy, V. A Survey of Education Professionals About Mindfulness Within the School Environment – poster presentation - AOTA Annual Conference – New Orleans, LA - April 2019

Vollmer K, Burns A, Sauer H, Williams J, Komazin-Meredith G, Busch M, Bowlin T, Gentry B, Enzymatic Removal of a Butyl-Ether Moiety by Adenosine Deaminase-Like Protein 1, a Necessary Step in the Mechanism of Action of MBX-2168. 32nd Annual International Conference on Antiviral Research (2019).

Wahl, C., Gnacinski, S., & Meyer, B. (2019, October). Examining differences in athletes' perceptions of perceived stress and recovery between NCAA divisions. Poster presented at the annual meeting for the Association for Applied Sport Psychology, Portland, OR, USA.

Wall C, Hillmer L, Bushman A, Eastman DK. Vaccination rates in patients with asplenia through integration of pharmacists for immunization assessment and selection. 2019 ASHP Clinical Midyear Meeting, Las Vegas, NV. December 2019.

Watson I, Ulrich E, Mahajan P. Case study in addressing leadership and innovator ACPE and CAPE Outcomes in an independent study. American Association of Colleges of Pharmacy Annual Meeting. July 13-16, 2019. Chicago, Illinois.

Welter KJ, Ulrich EE, Hurdelbrink J. Financial incentive required for student pharmacists in Iowa to practice in different settings post-graduation. Iowa Pharmacy Association Annual Meeting. June 20-21, 2019. Cedar Rapids, Iowa.

Welty TE, Niyongere J, Song JK. Global barriers to generic antiepileptic medication use. American Epilepsy Society. 2019:Abstract 2.355. https://www.aesnet.org/meetings_events/annual_meeting_abstracts/view/2421798

Wuebker M, Jeghers M, Winter S. Best Practices to Enhance Driver Readiness for Teens with Autism: A Scoping Review, University of Florida Professional Certificate of Driver Rehabilitation Therapy Training, Gainesville, Florida, November 25, 2019.

Yeo K, Mulla NS. Development and Characterization of Biodegradable Nanoparticles for Sustained Release of Insulin. Des Moines University research symposium 2019.

Yeo K, Mulla NS. Development and characterization of nanoparticulate dosage form to deliver anti-cancer drug- carmustine across the blood brain barrier. Drake University Summer research conference 2019.

BOOK CHAPTERS: (9)

Bell E. Medicacao de Crianças. 1st ed. 4Estacoes Editora, 2019 (This is my book Children's Medicines, published by a publishing company in Portugal)

Drettwan JJ, Kjos AL. An Ethical Analysis of Pharmacy Benefit Manager (PBM) Practices. Pg 109-121. In: Schommer JC, Olson A, eds. Pharmacists Services, MDPI Books; 2019. ISBN: 978-303921-754-0 <https://www.mdpi.com/books/pdfview/book/1767>

Gnacinski, S.L. (2019). Strategies for Recovery: Optimizing the Pursuit of Personal and Performance Excellence. In J. Taylor (Ed.), Comprehensive applied sport psychology. Routledge.

Johnston, S.P., & Tarvydas, V.T. (2019). Legal issues, ethics of practice, and counselor behaviors. In L. L. Levers & D. Hyatt-Burkhart, (Eds.), Clinical Mental Health Counseling. New York: Springer.

Koenigsfeld CF, Fornoff AS, Eastman DK. Headache. In: Sutton SS, ed. NAPLEX Review Guide. 3rd ed., McGraw-Hill, 2019.

Lohman, H.L. & Kobrin, A. (2019). Addressing Sexual Activity of Elders (**Plutschack, D.**, contributor). In Occupational Therapy with Elders: Strategies for the occupational therapy assistant (pp. 156-169). St. Louis: Elsevier/Mosby

Maki ED, Chapter 106 – Gout and Hyperuricemia. In: Schwinghammer TL et al, eds. Pharmacotherapy Casebook: A Patient-Focused Approach. 11th ed. New York: McGraw-Hill, 2020. (In preparation)

Peralta, A.M., Powell, S., & Byers-Connon, S. (2019). Working with Elders Who Have Pulmonary Conditions (**Plutschack, D.**, contributor). In Occupational Therapy with Elders: Strategies for the occupational therapy assistant (pp. 331-336). St. Louis: Elsevier/Mosby

Welty TE. Zonisamide. In Wyllie E ed. The Treatment of Epilepsy 4th and 5th ed. Lippincott Williams & Wilkins. Philadelphia, 2006, 2010, 2020.

NON-PEER REVIEWED ARTICLES: (5)

Clarke C. Magical Moments. The Journal of the Iowa Pharmacy Association. Published March 2019.

Clarke C. Sharpening Our Tools. The Journal of the Iowa Pharmacy Association. Published September 2018.

Clarke C. Stories, Authenticity, Family, Risk, Sand: Don't Miss It! The Journal of the Iowa Pharmacy Association. Published September 2019.

Clarke C. What Do You Stand For? The Journal of the Iowa Pharmacy Association. Published December 2018.

Pitlick JM. Sugar substitutes: Is one better or worse for diabetes? The Conversation. Online, June 2019. >2000 reads.

NON-PEER REVIEWED COLUMNS: (14)

- Bell EA.** Antihistamines for the common cold – where’s the evidence?. *Infectious Diseases in Children* 2019;32(9):21
- Bell EA.** Antihistamines Part II – long-term adverse effects? *Infectious Diseases in Children* 2019;32(11):25
- Bell EA.** Gene therapies – up and coming, and expensive. *Infectious Diseases in Children* 2019;32(7):15-16
- Bell EA.** Is your patient “allergic to penicillin?” Perhaps not. *Infectious Diseases in Children* 2019;32(5):18
- Bell EA.** Pediatric implications of Xofluza – a new antiviral drug for influenza.. *Infectious Diseases in Children* 2019;32(3):11
- Bell EA.** Use of supplements in pediatrics. *Infectious Diseases in Children* 2019;32(1):14
- Butler J, Johnson C, Newsom L,** TBL as more than another pedagogy, *Pulses*, July 30, 2019, <https://cptlpulses.com/2019/07/30/tbl-as-more-than-another-technology/> *This work was done through Peer-Coaching in the place of peer-review
- Chesnut RJ.** Continuing to Thrive. *Iowa Pharmacy Association Journal*. Jan - March 2019.
- Huey, K.A.** Phun Week Blog, LifeSciTRC (<https://blog.lifescitrc.org/phunweek/2019/08/06/interactive-exercises-to-learn-about-our-muscles-and-heart-for-4th-and-5th-graders/>) August 6, 2019
- Huey, K.A.** Spotlight on the: Muscular System, iSpy Physiology, (<https://ispyphysiology.com/2019/05/29/spotlight-on-the-muscular-system/>) May 29, 2019
- Huey, K.A.** Spotlight on the: Skeletal System, iSpy Physiology, (<https://ispyphysiology.com/2019/08/01/spotlight-on-the-skeletal-system/>) August 1, 2019
- Newsom L, Johnson C, **Butler J,** TBL: Pre-class preparation is not just for students, *Pulses*, Dec 10, 2019. <https://cptlpulses.com/2019/12/10/pre-class-prep/>
- Smith CB, Petite SE eds. **Miesner AR** – Message from the Chair. *American College of Clinical Pharmacy Adult Medicine PRN Fall Newsletter*. 2019;14(2):1.
- Smith CB, Petite SE eds. **Miesner AR** – Message from the Chair. *American College of Clinical Pharmacy Adult Medicine PRN Spring Newsletter*. 2019;14(1):1.

INVITED/NON-PEER REVIEWED PODIUM PRESENTATIONS: (65)

- Andreski, M,** “Health Insurance Landscape/PBMs: A hidden cause of medication cost increases”, Presented to The Ray Society (Drake University), Des Moines, IA on November 14, 2019
- Arvinen-Barrow, M., Visek, A., **Gnacinski, S.**, Scheadler, T., Johnson, C., Cawthra, J., & Hess, C. (2019, October). The path to publishing your work: Understanding academic publication procedures. Workshop presented at the annual meeting for the Association for Applied Sport Psychology, Portland, OR, USA.
- Brady MP,** The Lachman Test. Invited speaker at Rock Valley Physical Therapy Monthly Meeting, May 7, 2019: Des Moines, IA.
- Butler JJ,** Perioperative Medication Management: A Focus on Anticoagulation, February 2019, Midwest Pharmacy Expo
- Diehl B,** Kavanaugh R, Matulewicz A. “Thinking outside the lecture: evaluating critical thinking skills in laboratory courses.” Webinar: Laboratory Instructors SIG. American Association of Colleges of Pharmacy. 22 Jan 2019.
- Fornoff, A.** “Strategies to Assess and Promote Student Wellness and Self-Care.” Drake Learning Symposium–Drake Tomorrow: Why We Change, How We Change. Des Moines, Iowa. August 2019.
- Fornoff, A.** “Strategies to Assess and Promote Student Wellness and Self-Care.” Drake FYS Faculty Training Workshop. Des Moines, Iowa. August 2019.
- Fornoff, A.** “Advising Strategies to Assess and Promote Student Wellness and Self-Care.” Iowa Academic Advising Network. Ankeny, Iowa. March 2019.
- Gnacinski, S.,** & Meyer, B. (2019, May). The role of sport psychology within support services. Presentation delivered to Olympic coaches and Winter Sports National Performance Support Network staff at the H3 Summit, an annual meeting hosted by the Olympic Winter Institute of Australia.
- Gnacinski, S.L.,** & Meyer, B. (2019, May). Integrated approaches to sports injury rehabilitation. Presentation delivered at the Iowa Athletic Trainers’ Society Summer Symposium. Des Moines, IA, USA.
- Grady SE.** Antidepressants - part I. Presented at BMC psychiatry resident lecture series, October 24, 2019.
- Grady SE.** Antidepressants - part II. Presented at BMC psychiatry resident lecture series, November 21, 2019.
- Grady SE.** Antidepressants - part III. Presented at BMC psychiatry resident lecture series, December 19, 2019.

Grady SE. Antidepressants. Presented at BMC family practice resident lecture series, November 6, 2019.

Grady SE. Antidepressants. Presented at BMC family practice resident lecture series, October 2, 2019.

Grady SE. Anxiolytics. Presented at BMC family practice resident lecture series, December 4, 2019.

Grady SE. Medications used in child psychiatry. Presented at BMC psychiatry resident lecture series, December 12, 2019.

Grady, SE. Antidepressants. Presented at BMC family practice resident lecture series, September 4, 2019.

Grady, SE. Antidepressants. Presented at BMC psychiatry resident lecture series, July 3, 2019.

Grady, SE. Introduction to psychopharmacology. Presented at BMC psychiatry resident lecture series, July 11, 2019.

Grady, SE. Substance use disorders - part I. Presented at BMC psychiatry resident lecture series, August 22, 2019.

Grady, SE. Substance use disorders - part II. Presented at BMC psychiatry resident lecture series, November 7, 2019.

Hess, C.W., **Gnacinski, S.L.**, & Meyer, B.B. (2019, July). Translating theories of injury rehabilitation into practice: The need for team-based work in sport. Symposium presented at the 15th European Congress of Sport & Exercise Psychology hosted by the European Federation for Sport Psychology (FEPSAC), Münster, Germany.

Hoehns J, Danielson A, **Bryant G.** Iowa Pharmacy Association Webinar: Review of the 2019 Proposed Policy Statements. May 2019.

Hove, K. & Wuebker, M. Serving Customers with Complex Needs. Invited speaker at Iowa Department of Transportation Fall Conference, October 2nd, 2019. Des Moines, IA.

Hove, K. & Wuebker, M. Strategies for Behavioral and Learning Disabilities on the Road. Invited speaker at Iowa Department of Transportation Spring Conference, April 13th, 2019. Ames, IA.

Hove, K. Brain Injury Fundamentals Training. Provided portions of this training at the Brain Injury Alliance of Iowa 26th Annual Conference. March, 2019. West Des Moines, IA.

Hove, K. Living life to the fullest. Invited to speak at the Grandview University Kinesiology class. September 23rd, 2019. Des Moines, IA.

Janke KK, **Dy-Boorman E**, Wilby K, Zavod R. Strategies for the Academic Writing Journey. Presented for: Fall 2019 #RXWritingChallenge. October 2019; online.

Janke KK, **Dy-Boorman E.** Enjoyment in Academic Writing: Is It Possible? Presented for: Spring 2019 #RXWritingChallenge. April 2019; online.

Kassel LE. Invited Presentation: Drug Shortages in Caring for Patients: is it ethical to stockpile or ration? Pharmacy and Health Sciences Day, Drake University College of Pharmacy & Health Sciences. Des Moines, IA. February 2019

Kassel LE. Medication adjustment for patients on a weight loss journey. MercyOne Managing Obesity: A Growing Epidemic conference. Des Moines, IA. February 2019.

Kassel LE. RACE-ing to conversion: Timeliness of cardioversion in patients presenting with atrial fibrillation. CEI Login to Learn journal club webinar. June 2019.

Koenigsfeld, C. Presented APhA Immunization Certificate program in 2019 (1).

Koenigsfeld, C. Presented APhA Immunization Certificate program in 2019 (2).

Koenigsfeld, C.. Presented APhA Diabetes Certificate program in 2019 (1).

Koenigsfeld, C.. Presented APhA Diabetes Certificate program in 2019 (2).

Mahajan Pramod B. Invited Speaker at the Pravara Institute of Medical Sciences, Loni, India. 'Genome Modification: An Overview of Technologies & Applications'. January 16, 2019.

Mahajan, Pramod B. Invited Speaker at the DMPSD Teacher's Summer Workshop, Des Moines, IA. Soapy Cilantro as a Teaching Tool. July 9, 2019.

Mahajan, Pramod B. Invited Speaker at the St Theresa School, Des Moines, IA Soapy Cilantro as a Teaching Tool. November 13, 2019.

Mahajan, Pramod B. Invited Speaker at the Ray Society, Drake University, Des Moines IA. Genome Editing: Technology, Applications and ELSI A-3-Lecture Series delivered during May 1-30, 2019.

Mahajan, Pramod B. Invited Speaker at the SC STEM Regional Board Meeting, Montezuma, IA. Soapy Cilantro as a Teaching Tool June 10, 2019.

Mazar I, **Haack S.** Incorporating Service-Learning in Language Courses. 2019 Iowa World Language Association Conference. Iowa City, IA. October 4, 2019.

Meyer, B., & **Gnacinski, S.** (2019, May). Supporting your superstar. Presentation delivered to members of Olympic athletes' support networks at the H3 Summit, an annual meeting hosted by the Olympic Winter Institute of Australia.

Meyer, KS. Advancements in Diabetes Management for Older Adults.” Podium presentation approved for BCGP Continuing Education Credit (with **Wendy Mobley-Bukstein**), ASCP Annual Meeting, Grapevine, Texas, November 2019.

Newman, N & Brady, M. (2019, March). Practical tips for mental health concerns. Presented at Iowa High School Athletic Directors’ Association Annual Meeting; March, 2019; Coralville, IA.

Phillips, C. CPHS New Faculty Orientation program: Evaluating student learning: The IDEA center evaluations-interpretation; faculty development of teaching:

Phillips, C. CPHS New Faculty Orientation program: Promotion and Tenure Process: CPHS

Pitlick JM, Langel C. Treating Obesity in the Setting of Diabetes. Iowa Diabetes and Wellness Summit. November 14, 2019.

Plutschack, D., Wong, M., Syms, J. (March 20, 2019). Invited speaker for PhysioU.com. Apps and deep learning in OT education [webinar].

Rovers, J. Traditional and complementary medicines. Can we put square pegs into round holes? Drake University, Pharmacy and Health Sciences Day. Des Moines, IA. February 21, 2019.

Rovers, J. Understanding the potential impact of integrating traditional healers into national healthcare and the mental health role they play in communities. Centra Technology Inc. (on behalf of a US Federal Government Agency). Alexandria, VA. January 18, 2019.

Ulrich E. Panelist for The Harkin Institute and Drake CPHS American Pharmacists Association Student Chapter. Policy on Tap, “Trends and the future of the pharmacy profession.” March 2019. Des Moines, Iowa.

Urish, C. August 1, 2019 – Mental Health First Aid for Higher Education – CPHS at Drake – Des Moines, IA – 8 hour training

Urish, C. July 22, 2019 – Mental Health First Aid for Higher Education – CPHS at Drake University- Des Moines, IA – 8 hour training

Urish, C. March 2019 –Mindfulness & Zentangle – Drake University - Honors Program – Random Night Dinner – Des Moines, IA

Urish, C. March 9,– Zentangle for Mindfulness and Self Care – NAMI Greater Des Moines – Des Moines, IA – 3 hour workshop –

Urish, C. April 14, 2019 – Zentangle for Mindfulness and Self Care – NAMI Greater Des Moines – Des Moines, IA – 3 hour workshop

Urish, C. November 2019 – Youth Mental Health First Aid – Pi Theta Epsilon Fundraiser – Drake University, Des Moines, IA – 8 hour presentation

Urish, C. October 12, 2019 – Aromatherapy and You – NAMI Greater Des Moines, IA – 3 hour presentation

Vogl CS, Spilman SK, **Eastman DK**, Monzel C, Capella JM, Sidwell RA, Pelaez CA. An early intervention to manage pain for patients with rib fractures. Presentation at the annual meeting of the American College of Surgeons Committee on Trauma, Region 7, Kansas City, MO. November 2019.

Welty TE. Epilepsy a global public health imperative. Iowa Epilepsy Foundation. Epilepsy Symposium. Des Moines IA. October 2019.

Wilson, F, **Williams RM**, Lynall R, Ripee M, Chandran A. Primary and Secondary Injury prevention. International Congress on Athlete Brain Health. Park City, UT: October 2020 Williams RM. Secondary Injury Prevention

Wrenn CC. “Opioids: Basic Pharmacology and Guidelines,” Summer Meeting and Clinical Symposium, Iowa Athletic Trainers Society, West Des Moines, IA, May 31, 2019.

Wrenn CC. Basic Pharmacology of Dopamine and Serotonin,” Psychiatry Residency Program, Broadlawns Medical Center, Des Moines, IA, January 10, 2019.

INVITED/NON-PEER REVIEWED POSTERS: (29)

Alanis B, Brady MP (2019, April). Evaluating the effectiveness of certified vision screeners of non-profit organizations in the Greater Des Moines Metro Area. HS Poster Presentation Day, Des Moines, IA.

Barth N, Hrabe B, Stone E, Wuebker M. Ramping Up Quality of Life - The Impact of Home Modifications in Low Socioeconomic Populations on Aging in Place: A Qualitative Study, Iowa Occupational Therapy Conference, Waterloo, Iowa, September 27, 2019.

Berei J, Butler J, Evaluating the accuracy and clinical impact of incorporating direct patient interviews into the pharmacy admission medication reconciliation process, ASHP Midyear Annual Meeting, Dec. 2019

Bischel T, Brady MP (2019, April). Hospitalized patients' perspectives on shared decision-making and treatment satisfaction. HS Poster Presentation Day, Des Moines, IA.

Brown, C., Mock, E., Roe, M., Schulz, L., Hove, K., & Jones, J. Biofeedback interventions for treatment of post-concussion syndrome in adults. Iowa Occupational Therapy Association Annual Conference. Waterloo, IA. October 2019.

Christensen, B., Gnacinski, S. (mentor), & Jedlicka, R. (2019, April). The relationships among stress, recovery, health, and burnout among occupational therapists in the Midwest. Poster presented at The 16th annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS). Des Moines, IA, USA.

Clavell H, Brady MP (2019, April). Physical activity of individuals with intellectual and developmental disabilities: a literature review. HS Poster Presentation Day, Des Moines, IA.

Edward Mueller, Ronald Torry (Mentor), Erik Maki (Mentor). Assessing subject awareness of recent changes to hypertension goals. Presented at Conference on Undergraduate Research in the Sciences (DUCURS), Drake University, April 11, 2019.

Erin O'Keefe, Mikayla Soelster, Dr. Pramod Mahajan (Mentor), and Dr. Nihal Mulla (Mentor) Impact of health education on HIV epidemic in High-Risk Populations: Case Study of Pravara Rural Hospital, India. Drake Undergraduate Research Symposium

Erin O'Keefe, Mikayla Soelster, Dr. Pramod Mahajan (Mentor), and Dr. Nihal Mulla (Mentor) Impact of health education on HIV epidemic in High-Risk Populations: Case Study of Pravara Rural Hospital, India. Heartland Global Health Consortium Annual Meeting, Des Moines, IA.

Fox R, Brady MP (2019, April). ChildServe Pet Ambassador Facility Dog Program. HS Poster Presentation Day, Des Moines, IA.

Ginn B, Brady MP (2019, April). The implementation of sensory modulation therapy in the dementia unit. HS Poster Presentation Day, Des Moines, IA.

Hove, K., Wersal, J., & Classen, S. Interventions to Improve Fitness to Drive in Young Adults with Acquired Brain Injury, University of Florida Professional Certificate of Driver Rehabilitation Therapy Training, Gainesville, Florida, November 25, 2019.

Ian Watson and Dr. Pramod Mahajan, PhD (Mentor) Status of pharmacogenomic knowledge and its applications : A survey of professionals at Mercy Medical Center in Des Moines, IA. Drake Undergraduate Research Symposium, Des Moines, IA.

JaNiese Jensen, Andrew Kosharek, Erin Steffenson, Dr. Pramod Mahajan (mentor) and Dr. V. B. Bangal* (mentor) A cross sectional study of incidence of risk factors and management of postpartum hemorrhage at a tertiary care hospital in rural India. Drake Undergraduate Research Symposium.

JaNiese Jensen, Andrew Kosharek, Erin Steffenson, Dr. Pramod Mahajan (mentor) and Dr. V. B. Bangal* (mentor) A cross sectional study of incidence of risk factors and management of postpartum hemorrhage at a tertiary care hospital in rural India. Heartland Global Health Consortium Annual Meeting, Des Moines, IA.

Jedlicka, R., Gnacinski, S. (mentor), & Christensen, B. (2019, April). An examination of stress, recovery, health, and burnout among pharmacists in the Midwest. Poster presented at The 16th annual Drake University Conference on Undergraduate Research in the Sciences (DUCURS). Des Moines, IA, USA.

Kenneth Echevarria, Kimberly Huey, McKenzie Temperly, Zachary Conroy, and Rudy J. Valentine. Effects of Angiotensin II Receptor Blockade on Overload-Induced Muscle Growth in Mice. Iowa Physiological Society Meeting, November 2, 2019

Kenzie Temperly, Zachary Conroy and Kimberly Huey. Effects of Vitamin D Supplementation on Overload-induced Muscle Growth and Function in Mice. Iowa Space Grant Undergraduate Conference, March 11, 2019

Kenzie Temperly, Zachary Conroy and Kimberly Huey. Effects of Vitamin D Supplementation on Overload-induced Muscle Growth and Function in Mice. Drake Undergraduate Research Symposium, April 11, 2019

Kenzie Temperly, Zachary Conroy, and Kimberly Huey. Effect of statins on muscular and cardiorespiratory adaptations to treadmill training in hypercholesterolemic mice. Drake Undergraduate Research Symposium, April 11, 2019

Miesner AR, Owens R, Smith CB. History of the Adult Medicine Practice and Research Network. Poster presentation at the American College of Clinical Pharmacy. October 26, 2019; New York, NY

Pitlick JM, Kassel L, Hadsall K, Daly M, Rand J, Smolik M. Predicting insulin dosing patterns after bariatric surgery. Drake Undergraduate Research Symposium poster

Schulty F, Bothwell M, Schimek M, Speth E, Wuebker M. Having the courage to play: A look at an adaptive sports and recreation program on health changes for individuals with disabilities, Iowa Occupational Therapy Conference, Waterloo, Iowa, September 27, 2019.

Tyree A, Brady MP (2019, April). An investigation into the preparedness of DSM ED Providers in the treatment of football injuries. HS Poster Presentation Day, Des Moines, IA.

Wall C, Hilmer L, Bushman A, Eastman DK. Vaccination rates in patients with asplenia through integration of pharmacists for immunization assessment and selection. 2019 Drake University Conference on Undergraduate Research in the Sciences (DUCURS), Des Moines, Iowa. April 2019.

Williamson B, Miesner AR. Survey of antibiogram methodologies among Des Moines area health care institutions. Poster presentation at the Iowa Governor's Conference on Public Health. April 24, 2019; Des Moines, IA.

YiFan Zhou and Dr. Pramod Mahajan (Mentor) Pricing Precision Medicine. Drake Undergraduate Research Symposium, Des Moines, IA. Drake Undergraduate Research Symposium, Des Moines, IA.

Zachary Conroy, Ellie Jacoby, Taylor Bischel, and Kimberly Huey, Sex-Dependent Differences in Voluntary Exercise Volume and Cardiorespiratory Adaptations in Young and Aged Mice, DUCURS April 11, 2019

TECHNICAL OR CONSULTANT REPORTS: (4)

Plutschack, D. & Wong, M. (2019). SplintingPro. Physio U. [Mobile application software].

Abshire, D. & Gutierrez, C. (2019). Rural obesity (Policy brief). National Rural Health Association.

Drapeaux A. Sports Medicine Committee: Budget and Strategic Plan

Wong, M., LeMoine, M., LeMoine, A., Yung, E. (2019). Physio U. [Mobile application software]. PhysioU.com Accepted an invitation to contribute to the web application. Contributions in progress

JOURNAL REVIEWING ACTIVITIES: (70 journals)

American Journal of Health Sciences: **Gutierrez**
American Journal of Health-System Pharmacy: **Andreski, Wall**
American Journal of Managed Care, **Wall**
American Journal of Pharmaceutical Education, **Bottenberg, Phillips**
American Journal of Physiology-Heart and Circulatory Physiology, **Torry**
American Journal of Physiology, **Huey,**
Annals of Pharmacotherapy, **Bell, Dy-Boarman, Wall, Welty**
Antibiotics, **Wall**
Antimicrobial Agents and Chemotherapy: **Gentry**
Antiviral Research: **Gentry**
Athletic Training and Sports Healthcare, **Williams**
Biomedicine and Pharmacotherapy, **Munusamy**
British Journal of Pharmacology, **Munusamy**
Canadian Journal of Physiology and Pharmacology , **Munusamy**
Clinical and Experimental Allergy, **Wall**
Clinical Journal of Sports Medicine, **Williams**
Current Medicinal Chemistry, **Mahajan**
Current Pharmaceutical Biotechnology, **Munusamy**
Current Pharmaceutical Design, **Munusamy**
Currents in Pharmacy Teaching and Learning, **Bottenberg, Dy-Boarman, Haack, Kassel, Munusamy, Nelson**
Epilepsia, **Welty**
Epilepsy and Behavior, **Welty**
Frontiers in Pharmacology, **Munusamy**
Frontiers in Physiology, **Huey**
INNOVATIONS in Pharmacy: **Nelson**
International Journal of Clinical Practice, **Wall**
International Journal of Health Sciences Education, **Gutierrez, Hurdelbrink**
International Journal of Molecular Sciences, **Munusamy**
International Journal of Pharmaceutics, **Mulla**
Iowa Pharmacy Association Journal, **Andreski**
Journal of Adolescent Health, **Williams**
Journal of American Pharmacist Association, **Mahajan,**
Journal of Applied Pharmaceutical Sciences, **Mengesha**
Journal of Applied Physiology, **Huey**
Journal of Athletic Training: **Newman, Williams**
Journal of Cancer, **Munusamy**
Journal of Clinical Medicine, **Munusamy**
Journal of International Medical Research, **Munusamy**
Journal of Pediatric Pharmacology and Therapeutics, **Bell**
Journal of Pediatric Infectious Diseases, **Bell**
Journal of Pharmaceutical Sciences, **Mengesha**
Journal of Pharmacy Practice, **Lehman, Miesner, Wall**
Journal of Sports Rehabilitation, **Brady**
Journal of Strength and Conditioning Research, **Gnacinski**
Journal of Vocational Rehabilitation, **Johnston**
Life Sciences, **Munusamy**
Measurement in Physical Education and Exercise Science, **Newman**
Medical Sciences, **Rovers**
Medicina, **Munusamy**
Molecular Biology Reports, **Sacco**
Molecular and Cellular Endocrinology, **Munusamy**
Molecular Medicine Reports, **Munusamy**
Molecules, **Munusamy**
Nutrients, **Munusamy**
Nutrition and Cancer, **Mengesha**
Nutrition and Metabolism, **Munusamy**
Occupational Therapy in Mental Health Journal, **Urish**
Occupational Therapy Journal of Research, **Urish**
Open Journal of Occupational Therapy, **Griffiths**
Oxidative Medicine and Cellular Longevity, **Munusamy**
PharmacotherapyFirst, **Eastman**
Pharmacy Times, **Koenigsfeld**

PLoS One, **Mahajan, Rovers (academic editor)**
Public Health Nursing, **Rovers**
Physical Therapy in Sport, **Williams**
Research in Social and Administrative Pharmacy, **Andreski, Phillips, Rovers, Ulrich**
Scientific Reports, **Munusamy**
TSAC Report, **Gnacinski**
Veterinary Sciences, **Sacco**
World Journal of Gastroenterology, **Wall**

REVIEWERS FOR PODIUM or POSTER SESSIONS: (xx individuals)

AACP Annual Meeting, **CLARKE, HAACK, DY-BOARMAN (multiple sections)**
AAPS PharmSci 360 Poster Abstracts, and Late breaking Poster Abstracts, **MENGESHA**
ACCP Abstract/poster Reviewer, **DY-BOARMAN, WELTY, MIESNER (also best poster judge)**
American Public Health Association: Alcohol, Tobacco, and other Drugs Division, **JOHNSTON**
American Society for Microbiology, Council for Undergraduate Educators, posters, **GENTRY**
AOTA Annual Conference review, **GRIFFITHS, URISH, WUEBKER**
AOTA Board and Specialty Certification Portfolios, **URISH**
AOTA Children and Youth Specialty Conference, **ALLEN-MCHUGH**
AOTA Education Summit review, **URISH**
AOTA General, Research, and Technology Section Podium reviewer, **JOHNSTON**
AOTA Mental Health Specialty Conference review, **URISH, ALLEN-MCHUGH**
AOTA Occupation Stations, **URISH**
APhA poster abstracts/ Judges, **MOBLEY-BUKSTEIN, CLARKE**
APhA Annual Meeting Contributed Papers Review, **LEHMAN**
ASCP Annual Meeting, **MEYER**
Association for Applied Sport Psychology Annual Conference – **G GNACINSKI**
Central States Chapter of the Society of Toxicology Annual Meeting, moderator, **TORRY**
Des Moines University Research Symposium, **MUNUSAMY**
DUCURS presentations judge, **MUNUSAMY, SACCO, TORRY**
Health Sciences Senior Capstone Posters, Drake University, **ROVERS, MUNUSAMY**
International Conference on Antiviral Research, poster & podium, **GENTRY**
Iowa Academy of Science meeting, **TORRY**
Midwest Chapter of American College of Sports Medicine Conference – Podium and Posters, **GNACINSKI**
Pharmacy Times CE podium presentation review, **LEHMAN**
SLDS Posters, Health Professions Day, **PHILLIPS**
Team-Based Learning Collaborative poster reviews, **NELSON**
Urbandale HS Biology Research Fair Judge; abstract reviewer, **TORRY**

REVIEWERS FOR GRANTS/AWARDS: (x individuals)

AACP New Investigator Award (NIA): **MUNUSAMY**
AACP SoTL Grant: **MUNUSAMY**
APhA Foundation Incentive Grants, **CLARKE**
Iowa Science Foundation Grant: **MENGESHA**
Iowa Space Grant Consortium, Merit Scholarship and UG Research Grant, **HUEY, SACCO**
Research Foundation- Flanders (FWO), Bilateral Scientific Cooperation, **GENTRY**

RESEARCH GRANTS AND CONTRACTS: (xx NEW)

EXTRAMURAL: (12 grants totaling \$484,357)

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

Sponsor: Iowa Department of Public Health

Start date/completion date: 2019

Direct Costs: \$2,000

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

Title: Medication Management Accelerator Program – Partnership between Des Moines University Family Medicine Clinic and Drake University College of Pharmacy and Health Sciences

Sponsor: COMPASS Practice Transformation Network

Start date/completion date: 6-1-2019 to 8-31-2019

Direct Costs: \$15,000

Role: Co-investigator Johnson M, **Bottenberg MM**

Title: Drug Development Consulting

Sponsor: Vanadro

Start date/completion date: July 1, 2019 - June 30, 2020

Direct Costs: \$100,000

Role: **R. Chesnut**, Principal Investigator

Title: Metabolic Activation of MBX-2168 by Adenosine Deaminase Like Protein-1 and its Inhibition by Pentostatin

Sponsor: American Foundation for Pharmaceutical Education Gateway to Research Award

Start date/completion date: June 2019-June 2020

Direct Costs: \$5,000

Role: **B. Gentry**, Mentor

Title: Elucidating the Molecular Mechanism of Action of Letemovir: An Examination of How Letemovir Works and the Clinical Implications Associated with its Mechanism of Action

Sponsor: Merck Investigator Studies Program

Start date/completion date: Aug 2019-Aug 2022

Direct Costs: \$291,947

Role: **B. Gentry**, Co-Principle Investigator

Title: Use of Continuous Glucose Monitors to Assist with medication adherence in patients with Hemoglobin A1C > 9%

Sponsor: Compass Practice Transformation Network Grant (IHC/IPA)

Start date/completion date: June 1, 2019-September 1, 2019

Direct Costs: \$14,585

Role: **S. Haack, S (PI) and Mobley-Bukstein, W.** (Co-I)

Title: Using the Lt Labstation Human Physiology Program in an Undergraduate Human Physiology Laboratory Course

Iowa Space Curriculum Development Grant

Start date/completion date: August 2019 -May 2020

Direct Costs: \$10,000

Role: **K. Huey**, Principal Investigator

Title: Effects of Vitamin D Supplementation on Cardiorespiratory and Muscular Adaptations to Endurance Training in Mice

Sponsor: Iowa Space Grant Undergraduate Research Fellowship

Start date/completion date: August 2019-May 2020

Direct Costs: \$7,000 to student, \$2,000 to faculty mentor

Role: **K. Huey**, Faculty Mentor for Zachary Conroy

Title: Effects of Vitamin D Supplementation on Cardiorespiratory and Muscular Adaptations to Concurrent Training in Mice

Sponsor: Iowa Space Grant Undergraduate Research Fellowship

Start date/completion date: August 2019-May 2020

Direct Costs: \$7,000 to student, \$2,000 to faculty mentor

Role: **K. Huey**, Faculty Mentor for Kenzie Temperly

Title: NABP/AACP District 5 Grant Study Personnel: Kassel LE, (Sykuta A), Ulrich E

Sponsor: NABP/AACP District 5

Start date/completion date: August 2019 – July 2020

Direct Costs: \$840

Role: **L. Kassel**, Primary Investigator

Title: Athletic Training Lab Enhancement

Sponsor: Prairie Meadows Community Betterment Grant

Start date/completion date: 7-1-2019 to 12-31-2019

Direct Costs: \$9,985

Role: Co-Investigator, **Newman, N.** & Bainter, T.

Title: CPESN USA - Flip the Pharmacy

Sponsor: Community Pharmacy Federation

Start date/completion date: October 2019 - October 2021

Direct Costs: \$17,000

Role: **E. Ulrich**, Practice Transformation Coach

Internal (28 grants totaling \$78,732.43):

Title: Telehealth and Occupational Therapy in Early Intervention

Sponsor: Drake Research Grant

Start date/completion date: 7-1-2019 to 5-31-2020

Direct Costs: \$1,247.56

Role: **R. Allen-McHugh**, Principle Investigator

Title: Academic Leadership Fellows Program, American Association of Colleges of Pharmacy

Sponsor: Office of the Provost, Drake University

Start date/completion date: August 2019

Direct Costs: \$1500

Role: Principle investigator **Bottenberg MM**

Title: Evaluation of the Impact of Simulation to Train Pharmacy Students in Point-of-Care Testing

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

Start date/completion date: September 2019

Direct Costs: \$10,375

Role: Co-investigator **Bryant G, Bottenberg MM**, Smith H

Title: Enzymatic activation of T-705 and T-1105, novel anti-viral drugs with broad-spectrum activity against RNA viruses

Sponsor: CPHS Harris Research Endowment

Start date/completion date: Aug 2019-June 2020 Direct

Direct Costs: \$3,300

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

Title: Examining the effects of psychological recovery on measures of health and fitness among tactical populations.

Sponsor: Drake University, Associate Provost's Office

Start date/completion date: February 8, 2019

Direct Costs: \$2,812

Role: **S. Gnacinski**, PI

Title: Rural Health Fellowship

Sponsor: Drake Faculty Development and Enrichment Grant

Start date/completion date: February 2019

Direct Costs: \$1180

Role: **C. Gutierrez**, PI

Title: Assessing the Reliability of the PRELOAD Rubric

Sponsor: Harris Research Grant

Start date/completion date: September 2019 - August 2020

Direct Costs: \$2681

Role: **PI - Haack S, Fornoff A, Mazar I, Gnacinski S**

Title: Site visit to Tec de Monterrey (Drake faculty) and to Drake (Tec faculty)

Sponsor: Drake International Partnership Award

Start date/completion date: November 2019 - June 2020

Direct Costs: \$3470

Role: **S. Haack, PI**

Title: Site visit to Drake (Dr. Selene Huerta)

Sponsor: Drake International Grant

Start date/completion date: June 2019

Direct Costs: \$1750

Role: **S. Haack, PI**

Title: Effects of Angiotensin II Receptor Blockade on Overload-Induced Muscle Growth and Function in Mice with Hypercholesterolemia

Sponsor: Drake University Research Grant

Start date/completion date: July 2019-June 2020

Direct Costs: \$2,932

Role: **K. Huey**, Principal Investigator

Title: Institute for Teaching and Learning Conference

Sponsor: Drake Faculty Development Grant

Start date/completion date: November 2019-June 2020

Direct Costs: \$1,500

Role: **K. Huey**, Principal Investigator

Title: Drake Faculty Development and Enrichment Grant

Sponsor: Drake Office of Associate Provost for Faculty Success

Start date/completion date: 9-14-19 to 10-11-19

Direct Costs: \$118.63

Role: **N. Kuhl**, Primary Participant in Webinar

Title: Jorndt Faculty Development Grant

Sponsor: Drake College of Pharmacy and Health Sciences

Start date/completion date: 8-15-19 to 9-13-19

Direct Costs: \$732

Role: **N. Kuhl**, Primary Participant

Title: "How Learning Works – Department Book Club"

Sponsor: Drake University Faculty Development Grant Program

Start date/completion date: Fall 2019/Spring 2020

Direct Costs: \$806

Role: **E. Maki**, Principle Investigator

Title: 3D printing of rectal rockets for personalized hemorrhoid treatment.

Sponsor: Kresge fund, CPHS

Start date/completion date: Nov. 2019

Direct Costs: \$5,210.00

Role: **A. Mengesha**, Principal Investigator

Title: Epinephrine drug degradation in auto-injector products.

Sponsor: Drake Research Grant

Start date/completion date: July 2019 – May 2020

Direct Costs: \$3,000.00

Role: Co-investigator **A. Mengesha, (Co-PI: Lynn Kassel)**

Title: Liposome-Based Combination Therapy for Breast Cancer

Sponsor- DUSCI

Start date/completion date: Summer

Direct Costs: \$950.00

Role: **N. Mulla**, PI

Title: "Investigating the Nephroprotective Effects of Metformin in a Mouse Model of Diabetic Nephropathy"

Sponsor: 2019 Summer Undergraduate Research Fellowship Program, Drake University

Start date/completion date: May - Jul. 2019

Direct Costs: Award to the Student Christopher Karch (P2 student): \$3,000

Role: **S. Munusamy**, Research Mentor

Title: Opioid use and The Comfort Scale in an occupational health center

Sponsor: Drake University Harris Research Endowment Grant

Start date/completion date: 2019 (discontinued), funds reallocated

Direct Costs: \$400

Role: **D. Plutschack**, principal investigator

Title: Improved Health Messaging in Toledo District, Belize

Sponsor: Drake University, CPHS Harris Grant

Start date/completion date: July 2019-July 2020

Direct Costs: \$13,852

Role: **J. Rovers**, Principal Investigator with Assistance from S. Johnston, R. McHugh + L. Cruz, K. Zemke, J. Johnson, D. Stanek, P. Woolridge, B. Krogman

Title: Development and field testing of a novel Glutathione S-transferase P1 enzyme assay in dogs

Sponsor: Drake University CPHS, Harris Research Endowment

Start date/completion date: 4-16-2019 to 6-30-2019

Direct Costs: \$1,157

Role: **J. Sacco**, PI

Title: Identification and sequencing of Glutathione S-transferase genes and transcripts in the cat (*Felis catus*)
Sponsor: Drake University CPHS, Harris Research Endowment
Start date/completion date: 2-18-2019 to 6-30-2019
Direct Costs: \$1,064
Role: **J. Sacco**, PI

Title: Kidney expression of sFlt-1 during renal dysfunction
Sponsor: Harris Endowment Research Grant
Start date/completion date: July 1, 2019 - date
Direct costs: \$1,545 (extension of original grant)
Role: **R. Torry**, Co-investigator (with **S. Munusamy**)

Title: Mindfulness & Zentangle
Sponsor: Harris Grant
Start date/completion date: October 2019 - April 2020
Direct Costs: \$700.00
Role: **Christine Urish**, PI

Title: Are social impairments in 3xTg-AD mice an expression of anxiety-like behavior?
Sponsor: Harris Research Endowment
Start date/completion date: September 2019 to June 2020
Direct Costs: \$5,476
Role: **C. Wrenn**, Principal Investigator

Title: Faculty Development Presentation at AOTA Conference
Sponsor: Jorndt Faculty Development Fund Start Date/Completion
Start date/completion date: FY 2019-2020
Direct Costs: \$1,268.00
Role: **M. Wuebker**, Principal Investigator

Title: Best Practices to Enhance Driver Readiness Among Teens with Autism
Sponsor: Harris Research Endowment
Start Date/Completion Date: FY 2019-2020
Direct Costs: \$4,293.24
Role: **M. Wuebker**, Principal Investigator

Title: Fieldwork Educators' Perceptions and Use of Occupation Based Practice in a Fieldwork Setting
Sponsor: Harris Research Endowment
Start Date/Completion Date: FY 2018-2019
Direct Costs: \$2,413
Role: **M. Wuebker**, Principal Investigator

UNDERGRADUATE RESEARCH PROJECTS: (96 projects, with multiple students)

Student name and major: Emily Botten, Reid Lefler, Sara Schankerman, Hannah Fletchall, Occupational Therapy
Project title: Active principles of health and wellness in the workplace: Literature review.
Product(s): Poster presentation. (April 5, 2019). American Occupational Therapy 2019 Conference. New Orleans, LA
Mentor: **Rachel Allen-McHugh**

Student name and major: Miranda Gelhaus, Cheyanne Laux, Jessica Reynolds, Richie Serrano, Katelyn Smith; Occupational Therapy
Project title: Occupational Therapy for Children with Food Refusal Using the PEOB Model
Product(s): in process
Mentor: **Rachel Allen-McHugh**

Student name and major: Laura Brady, Lizette Cruz, Corinne Frei, Haylee Huedepohl, Keli Zemke; Occupational Therapy
Project title: Beery VMI and Print Tool Via Telehealth
Product(s): in process
Mentor: **Rachel Allen-McHugh**

Student name and major: Shannon Flaherty, Sam Maki, Kendra Schleg, Ashley Stephens, Anita Tyree; Occupational Therapy
Project title: Implementation of Telehealth in Rural Pediatric Occupational Therapy Settings
Product(s): Products in process
Mentor: **Rachel Allen-McHugh**

Student name and major: Bayah Alanis - Health Sciences
Project title: Evaluating the effectiveness of certified vision screeners of non-profit organizations in the Greater Des Moines Metro Area.
Product(s): Drake HS Poster Presentation Day
Mentor: **Megan Brady**

Student name and major: Taylor Bischel - Health Sciences
Project title: Hospitalized patients' perspectives on shared decision-making and treatment satisfaction.
Product(s): Drake HS Poster Presentation Day
Mentor: **Megan Brady**

Student name and major: Hannah Clavell - Health Sciences
Project title: Physical activity of individuals with intellectual and developmental disabilities: a literature review.
Product(s): Drake HS Poster Presentation Day
Mentor: **Megan Brady**

Student name and major: Riley Fox - Health Sciences
Project title: ChildServe Pet Ambassador Facility Dog Program
Product(s): Drake HS Poster Presentation Day
Mentor: **Megan Brady**

Student name and major: Brooks Ginn - Health Sciences
Project title: The implementation of sensory modulation therapy in the dementia unit
Product(s): Drake HS Poster Presentation Day
Mentor: **Megan Brady**

Student name and major: Anita Tyree - Health Sciences
Project title: An investigation into the preparedness of DSM ED Providers in the treatment of football injuries
Product(s): Drake HS Poster Presentation Day
Mentor: **Megan Brady**

Student name and major: Deni Cokovic, Dylan Sarocco
Project title: Nutrition research project
Product(s): Flyers/handouts regarding different nutrition topics for the Iowa High School Athletic Association (IAHSAA) and Iowa Girls High School Athletic Union (IGHSAU).
Mentor: **Megan Brady**

Student name (and major); Brueggen K, McCormick A, Wellington K (Pharmacy)
Project title: Real-world evaluation of dosing in patients converted from insulin glargine (Lantus) to insulin glargine (Basaglar).
Product(s): Poster Presentation: American College of Clinical Pharmacy: Annual Meeting. October 2019; New York; Manuscript: Ann Pharmacother. [Submitted November 2019]
Mentor: **Ginelle Bryant**

Student name and major: Hannah Frisch, BS Health Science

Project title: Impact of a clinical decision support strategy involving advanced pharmacy practice experience students on cardiovascular disease risk assessment and statin treatment

Product(s): Poster (June 2019); Iowa Pharmacy Association Annual Meeting, Cedar Rapids, IA

Mentor: **Michael Daly**

Student name and major: Anna Paar- CPHS Clinical and Applied Sciences

Project title: The Efficacy of Muscle Energy Techniques and Neuromuscular Educational exercises for Mechanical Low Back Pain in Athletes

Product(s): Pending poster and manuscript

Mentor: **Alisa Drapeaux**

Student name and major: Sam Maki, HSCI

Project title: Comparing outcomes of CIMT therapy with traditional therapy techniques

Product(s): Senior Poster Session

Mentor: **Alisa Drapeaux**

Student name and major: Ellen Judd, HSCI

Project title: Evidence based practice for pediatric occupational therapy home-based exercises

Product(s): Senior Poster Session

Mentor: **Alisa Drapeaux**

Student name and major: Melissa Schlotzhauer, HSCI

Project title: Effectiveness of dorsaVi index and single leg hop test in assessing return to sports in ACL reconstruction patients

Product(s): Senior Poster Session

Mentor: **Alisa Drapeaux**

Student name and major: Taylor Weetman, HSCI

Project title: Enhancing communication skills through implementing Presentation Opportunities into the programs at Courage League

Product(s): Senior Poster Session

Mentor: **Alisa Drapeaux**

Student name and major: Tawny Carroll, HSCI

Project title: Effects of a vibrating device/vest on kids with sensor processing disorder (hyposensitivity).

Product(s): Senior Poster Session

Mentor: **Alisa Drapeaux**

Student name and major: Isabel Trujillo, HSCI

Project title: Impact of PT after Knee Replacement on Levels of Knee Flexion, Satisfaction, & Overall Recovery

Product(s): Senior Poster Session

Mentor: **Alisa Drapeaux**

Student name and major: Claire Monzel, PharmD

Project title: Pain management for patients with rib fractures

Product(s): DMU Research Symposium poster (December 2019)

Mentor: **Darla Eastman**

Student name and major: Natalie Hagen, BCMB Class of 2019

Project title: Pentostatin Antagonizes the Anti-Viral Activity of MBX-2168 by Inhibiting the Biosynthesis of Active Compound

Product(s): DUCURS poster (April 2019), ICAR Poster (May 2019), Peer-Reviewer Manuscript (in preparation)

Mentor: **B. Gentry**

Student name and major: Kathryn Vollmer, PharmD Class of 2021

Project title: Enzymatic Removal of a Butyl-Ether Moiety by Adenosine Deaminase-Like Protein 1, a Necessary Step in the Mechanism of Action of MBX-2168

Products: Iowa Space Grant Consortium Podium Presentation (March 2019), DUCURS Podium Presentation (April 2019), Peer-Reviewed Manuscript (AAC 2019)

Mentor: **B. Gentry**

Student name and major: Olivia Kannas, BCMB Class of 2022

Project title: Enzymatic activation of T-705 and T-1105, novel anti-viral drugs with broad-spectrum activity against RNA viruses

Product(s): NA

Mentor: **B. Gentry**

Student name and major: James Lefevre, PhamD Class of 2023

Project title: Determining the extent of cross-resistance between letermovir, other terminase inhibitors, and currently approved drugs for the treatment of CMV

Product(s): NA

Mentor: **B. Gentry**

Student name: Rob Jedlicka Major: Pharmacy & Health Sciences

Project Title: An examination of stress, recovery, health, and burnout among pharmacists in the Midwest.

Product(s): Poster presentation delivered at the 16th annual (2019) Drake University Conference on Undergraduate Research in the Sciences (DUCURS). Des Moines, IA, USA.

Mentor: **Stacy Gnacinski**

Student name: Branden Christensen Major: Health Sciences

Project Title: The relationships among stress, recovery, health, and burnout among occupational therapists in the Midwest.

Product(s): Poster presentation delivered at the 16th annual (2019) Drake University Conference on Undergraduate Research in the Sciences (DUCURS). Des Moines, IA, USA.

Mentor: **Stacy Gnacinski**

Grier Aspengren, Jamie Bryan, Whitney Christiansen, Emily Cuddy, and Kate Hagenbucher

Title: A Study of the Occupational Therapy Doctorate Capstone Dissemination Processes]

Product(s): dissemination of the capstone experience and scholarly project.

Mentor: **Yolanda Griffiths**

Angelica Gacek, Jessica Hickman, Jessi Jacobs, Rachel Rose, Whitney Valasek,

Project title: A Historical Inquiry of the Occupational Therapy Doctorate at Drake University

Product(s): Presenting a poster at the AOTA Annual Conference 2020 in Boston MA (March 2020).

Mentor: **Yolanda Griffiths**

Lauren Folde, Emily Hawkins, Elizabeth Reveille, Renee Socarras

Project title: Examining Workplace Incivility in the occupational therapy academic setting

Product(s): Submitted proposal to the AOTA Education Summit fall 2019 in Las Vegas, NV but was not accepted.

Mentor: **Yolanda Griffiths**

Student name and major: Peyton Farmer, HSCI, 2019

Project title: The Effectiveness of Dale Carnegie Leadership training in Regards to Patient Care and Employee Engagement

Product(s): HSCI Senior Research Poster Session

Mentor: **C. Gutierrez**

Student name and major: Grace Gaugert, HSCI P

Project title: Effect of Wellness Coaching on Attitudes Toward Exercise, Body Composition, and Fitness Assessments during a Six Week Group Exercise Program

Product(s): HSCI Senior Research Poster Session

Mentor: **C. Gutierrez**

Student name and major: Talia Hertz, HSCI

Project Title: The Potential Barriers to Obtaining Health Coaching Clients

Product(s): HSCI Senior Research Poster Session

Mentor: **C. Gutierrez**

Tori Meier, HSCI

Project Title: Assessing Type 2 Diabetes Risk for College Students in Polk County

Product(s): HSCI Senior Research Poster Session

Mentor: **C. Gutierrez**

Student name and major: Alex Peake, HSCI

Project Title: The Effects of Art as Therapy Paired with Group Therapy on Individuals who have or have had Cancer

Product(s): HSCI Senior Research Poster Session

Mentor: **C. Gutierrez**

Student name and major: Christina Teufert, HSCI

Project Title: Internal Assessment of Existing Resources at Polk County Health Department to Achieve Health Equity

Product(s): HSCI Senior Research Poster Session

Mentor: **C. Gutierrez**

Student name and major: Hannah Lancaster, BCMB

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

Product(s): Unite for Sight Annual International Health Conference poster (April 2019);

Iowa Governor's Conference on Public Health poster (April 2019);

Undergraduate Public Health and Global Health Education Summit poster (March 2019)

Mentor: **C. Gutierrez**

Student name and major: Kristi Schwietz, PharmD

Project Title: Assessing the Core Public Health Competencies of Rural Undergraduate Health Sciences Students

Product(s): National Rural Health Association 42nd Annual Conference poster (May 2019);

Undergraduate Public Health and Global Health Education Summit poster (March 2019)

Mentor: **C. Gutierrez**

Student name and major: Noteboom A,

Project title: Stress perception in health professional students.

Product(s): Presented at the CPNP Annual Meeting, April 2019, Salt Lake City, Utah.

Mentor: **S. Grady**

Student name and major: Michelle Lin, Pharmacy

Project title: Implementing Diabetes Group Visits and Text Messaging in a Community Health Center to Improve Diabetes Outcomes.

Product(s): Iowa Governor's Conference on Public Health (April 2019)

Mentor: **Sally Haack**

Student name and major: Callie Brown, Emily Mock, Mariah Roe, Lindsey Schulz. All OTD students.

Project title: Implementation of biofeedback interventions for treatment of adults with post-concussion syndrome.

Product(s): Poster at IOTA (October 2019); Poster at ACRM (November 2019)

Mentor: **Kelsee Hove**

Student name and major: Kaitlyn Goss, Sarah Gronau, Regan Odegard, Lacie Sleezer & Paige Wooldridge. All OTD students.

Project title: An Evaluation of Telehealth Support Groups for Individuals with Acquired Brain Injuries

Product(s): In progress

Mentor: **Kelsee Hove**

Student name and major: Kenzie Temperly, HSCI - Zachary Conroy, BCMB

Project title: Effect of Statins on Muscular and Cardiorespiratory Adaptations to Treadmill Training in Hypercholesterolemia Mice

Product(s): National Experimental Biology Meeting poster (April 2019), DUCURS poster (April 2019)

Mentor: **Kim Huey**

Student name and major: Kenzie Temperly, HSCI

Project title: Effects of Vitamin D Supplementation on Overload-Induced Muscle Growth and Function in Mice

Product(s): Iowa Space Grant meeting poster (March 2019) and DUCURS poster (April 2019)

Mentor: **Kim Huey**

Student name and major: Kenzie Temperly, HSCI

Project title: Effects of Vitamin D Supplementation on Muscular and Cardiorespiratory Adaptations to Concurrent Training in Mice

Product(s): Iowa Space Grant meeting poster (planned March 2020) and DUCURS poster (planned April 2020)

Mentor: **Kim Huey**

Student name and major: Kenzie Temperly, HSCI- Zachary Conroy, BCMB

Project title: Effects of Angiotensin Receptor Blockade on Overload-Induced Muscle Growth and Function in Mice

Product(s): Iowa Physiological Meeting Poster (November 2019), DUCURS poster (planned April 2020), ACSM poster (planned June 2020)

Mentor: **Kim Huey**

Student name and major: Kenzie Temperly, HSCI - Zachary Conroy, BCMB

Project title: Effect of Statins on Muscular and Cardiorespiratory Adaptations to Treadmill Training in Mice

Product(s): National Experimental Biology Meeting poster (planned April 2020)

Mentor: **Kim Huey**

Student name and major: Zachary Conroy, BCMB - Ellie Jacoby, HSCI - Taylor Bischel, HSCI

Project title: Sex-Dependent Differences in Voluntary Exercise Volume and Cardiorespiratory Adaptations in Young and Aged Mice.

Product(s): DUCURS poster (April 2019)

Mentor: **Kim Huey**

Student name and major: Zachary Conroy, BCMB

Project title: Effects of Vitamin D Supplementation on Muscular and Cardiorespiratory Adaptations to Running Wheel Training in Mice

Product(s): Iowa Space Grant meeting poster (planned March 2020) and DUCURS poster (planned April 2020)

Mentor: **Kim Huey**

Student name and major: Jensen Bloomfield, Health Sciences

Project title: "The Effect Staff Satisfaction Has on Retention within the Long-Term Care Industry"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Molly Fuelberth, Health Sciences

Project title: "The Effect of Purposeful Hourly Rounding on Call Light Usage in Long-Term Care"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Kate Hagenbucher, Health Sciences

Project title: "Caring for Iowa: Assessing the Quality of Care in Assisted Living Facilities across Urban and Rural Populations"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Kual Jiel, Health Sciences

Project title: "Analysis of Doctor of Osteopathic Medicine & Medical Doctor Institutions Approach to Research Focuses"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Gabrielle Jonas, Health Sciences

Project title: "The Patient Care Facilitator Role and the Effect of Patient Satisfaction on Readmission Rates"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Kaylee Olson, Health Sciences

Project title: "Iowa Adolescent and Teenage Suicide: A 17 Year Retrospective Review and Mortality Trend Analysis"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Najma Salah, Health Sciences

Project title: "The Effect of Architecture Design, Interior Design, and Light Exposure on the Health and Well-Being of Dementia Residents in Memory Support Homes"

Product(s): Final Manuscript and Poster (May 2019)

Mentor: **Jonathan Hurdelbrink**

Student name and major: Janna Johnson (OTD), Chelsea Steffans (OTD), Baylee Stoll (OTD), Brooke Krogman (OTD), Ewa Pawelko (OTD).

Project title: A comparison of the Influences of Tobacco Products In College Students.

Product(s): Preparation for Spring 2020 CPHS Poster Presentation.

Mentor: **S. Johnston**

Student name and major: Emily Lammers (PH 19), Heather Vasquez (PH 19)

Project title: Efficacy of the Current electrolyte replacement protocol at Mercy

Product(s): Poster for sharing internally at Mercy

Mentor: **Lynn Kassel**

Student name and major: Anna Marceau (PH 19), Lauren Blum (PH 19)

Project title: Assessment of the utilization of iron studies to provide intravenous iron supplementation

Product(s): Poster at Mercy College of Health Sciences research symposium 2019

Mentor: **Lynn Kassel**

Student name and major: Erin Haberman (PH 20), Hallie Hardin (PH 20)

Project title: Assessment of objective data for residency candidates

Product(s): Internal sharing with institution

Mentor: **Lynn Kassel**

Student name and major: Erin Haberman (PH 20), Hallie Hardin (PH 20)
Project title: Pharmacy residency preceptor perceptions of candidate profiles leading to interview
Product(s): ASHP 2019 poster
Mentor: **Lynn Kassel**

Student name and major: Paige Schwoebel (PH 20), Michelle Lin (PH 20)
Project title: MercyOne adherence to Sugammadex indications for use per P&T protocol
Product(s): Internal poster
Mentor: **Lynn Kassel**

Student name and major: Piper Swanson (PH 20), Michael Manlick (PH 20)
Project title: Assessment of MercyOne bariatric postoperative surgical site infection and preoperative antibiotic choices
Product(s): ASHP 2019 poster
Mentor: **Lynn Kassel**

Student name and major: Sharon Abraham (PH 20), Kara Gossen (PH 20)
Project title: Assessment of MercyOne West Des Moines discharges before finalized cultures
Product(s): ASHP 2019 Poster
Mentor: **Lynn Kassel**

Student name and major: Caroline Jones (PH 22)
Project title: "Reply to Dr. Jennifer Lan, et al".
Product(s): Journal of Allergy and Clinical Immunology (JACI): In Practice. 2019 November/December;7(8):2948-9.
Mentor: **Lynn Kassel (and Abe Mengesha)**

Student name and major: Anastasia Hutton (PH 19)
Project title: Systematic Review of Perioperative Use of Immunosuppressive Agents in Patients Undergoing Bariatric Surgery.
Product(s): Surg Obes Relat Dis 2019;Oct 11. Epub ahead of print
Mentor: **Lynn Kassel**

Student name and major: Alex King, Brittany Bieber, Rober Boarman, Kendyl Struve, Jessica Haggerty
Project title: Occupational Therapists' Perceptions of Job Satisfaction in an inpatient rehabilitation facility
Product(s): Literature Review (December 2019)
Mentor: **Nicole Kuhl**

Student name and major: Reiter, D, McKay, D, W, Ross, N.
Project title: Ayurvedic approaches for the treatment and management of pain.
Product(s): Iowa Pharmacy Association Annual Meeting. Cedar Rapids, IA. June 2019.
Mentor: **Mahajan, P, Stelter, N, Mobley-Bukstein**

Student name and major: Breanna Moore, Health Sciences
Project title: Hospitalized Patients' Perspective on Shared Decision Making and Treatment Satisfaction
Product(s): Poster at Health Science Senior Poster Session
Mentor: **Erik Maki**

Student name and major: Robert Schroeder (PharmD and B.A. Chemistry)
Project title: Design evaluation of monoolein-monostearin lipid-based triggerable drug delivery systems in a simulated physiological environment.
Product(s): DUSCI Summer Fellowship (2019); Iowa Physiological Society (November, 2019),
Mentor: **Abebe Mengesha**

Student name and major: Caroline Jones (PharmD)
Project title: Epinephrine Drug Degradation in Auto-Injector Products
Product(s): Journal of Allergy and Clinical Immunology (JACI): In Practice. September/October 2019;7(7):2491-3.; 2018 DUSCI Summer Fellowship; Oral presentations: DUCURS (2018 and 2019); Poster presentations: ACCP (2018), AACP (2018), and DMU Research Symposium (2018).
Mentor: **Abebe Mengesha and Lynn Kassel**

Student name and major: Danielle Strelecki, PharmD Candidate 2020
Project title: Appropriateness of Direct Oral Anticoagulant (DOAC) Therapy in Older Adults residing in a Long Term Care Facility
Product(s): Anticipated Poster at IPA Annual Meeting 2020
Mentor: **Kristin S. Meyer**

Student name and major: McCormick A, Dhillon S, Karpen R, Monzel C, Olson A; PharmD candidates
Project title: Relationship between undergraduate involvement in pharmacy organizations and pharmacy school admittance.
Product(s): Poster presentation at the American College of Clinical Pharmacy. October 26, 2019; New York, NY.
Mentor: **Miesner AR**

Student name and major: Williamson B; BS-HS candidate
Project title: Survey of antibiogram methodologies among Des Moines area health care institutions.
Product(s): Poster presentation at the Iowa Governor's Conference on Public Health. April 24, 2019; Des Moines, IA.
Mentor: **Miesner AR**

Student name and major: Masterson O; BS-HS candidate
Project title: An Inpatient Probiotic Protocol to Prevent C. Difficile and Antibiotic-Associated Diarrhea.
Product(s): results pending
Mentor: **Miesner AR**

Student name and major: Madison Schwarz, Pharmacy
Project title: Creating a Validated Tool to Identify individuals for Medication Management Services
Product(s): ACCP Poster (October 2019)
Mentor: **Wendy Mobley-Bukstein**

Student name and Major: Ronald Frantz, PharmD program
Project title: "Investigating the Nephroprotective Effects of Metformin in a Mouse Model of Diabetic Nephropathy"
Product(s): ASPET-Experimental Biology Conference Poster (April 2019) - Des Moines University podium (December 2019)
Mentor: **Shankar Munusamy**

Student name and Major: Christopher Karch, PharmD program
Project title: "Investigating the Nephroprotective Effects of Metformin in a Mouse Model of Diabetic Nephropathy"
Product(s): DUCURS Student Presentation (August 2019) - Central States Chapter-Society of Toxicology Meeting Poster (September 2019) - Des Moines University podium (December 2019)
Mentor: **Shankar Munusamy**

Student name and major: Knobbe K, Johnson A, Mueller E,
Project title: Systematic Review of Electronic Nicotine Delivery System Use in COPD.
Product(s): 2019 IPA Annual Meeting Poster session; Iowa City, IA, June 2019.
Mentor: **Phillips, CR**

Student name and major: Katherine Hadsall, Health Sciences
Project title: Predicting consistent decreases in the amount of insulin a patient uses after bariatric surgery
Product(s): Drake Undergraduate Research Symposium Poster, Poster at American College of Clinical Pharmacy Annual Meeting
Mentor: **Jamie Pitlick**

Student name and major: Kelsey Huss, Andrew Galvez, Sabrina DeHerrera, Taylor Pirillo
Project title: Active principles: Yoga and ergonomic interventions with graduate students
Product(s):
Mentor: **David Plutschack, Rachel Allen-McHugh**

Student name and major: Madeline Bazan, Kirstan Dubree, Kelli Kramer, Cassidy McCumber, Jacqueline Widmer
Project title: Hand therapists' perception of patient cannabinoid use for management of upper extremity dysfunction
Product(s):
Mentor: **David Plutschack**

Student name and major: Brooks Ginn, Karagan Fisher, Talia Hertz, Liliana Roman, Holly Schroeder
Project title: Upper extremity injury among walker and cane users o Primary investigator: Sara Johnston
Product(s):
Mentor: **David Plutschack**

Student name and major: Resnick A, Leeson W, Alexander A,
Project title: Natural Language Processing in Qualitative Public Health Research.
Product(s): Poster presented at: Iowa Governor's Public Health Conference, April 23, 2019. Des Moines, IA.
Int J Qual Method. 2019;18:1-8 DOI: 10.1177/1609406919887021
Mentor: **Rovers J.**

Student name and major: Rachel Dietz, Katarina Hockey, (PharmD)

Project title: Development and field testing of a novel Glutathione S-transferase P1 enzyme assay in dogs
Product(s): None
Mentor: **James Sacco**

Student name and major: Breanna Moore, (PharmD)
Project title: Identification and sequencing of the glutathione S-transferase gene P1 (GSTP1) in the domestic cat.
Product(s): CSSOT Poster (September 2019). Winning poster in the undergraduate student category.
Mentor: **James Sacco**

Student: Nicole Draker (P4 and alumni)
Project title: The Clinical Role of Placenta Growth Factor and sFlt-1 In Ischemic Heart Disease and Heart Failure.
Products: Manuscript published in Biomarkers in Medicine, Spring, 2019.
Mentor: **RJ Torry**

Student: Edward Mueller
Project title: Assessing Subject Awareness of Recent Changes to Hypertension Goals.
Products: Abstract and poster for DUCURS, 4/2019; ASHP Midyear meeting, 12/2019
Mentors: **RJ Torry, E. Maki**

Student name and major: Meyer V, Welter K, Amundson L, Heitkamp T, Reiter D, Gannon E, Vollmer N, Spyrka K.
Project title: An assessment of student pharmacist awareness, utilization, and satisfaction of university wellness resources.
Product(s): Iowa Pharmacy Association Annual Meeting. Cedar Rapids, IA. June 2019.
Mentor: **Stelter N, Mobley-Bukstein W, Bottenberg MM**

Student name and major: Meyer V, Welter K, Amundson L, Heitkamp T, Reiter D, Gannon E, Vollmer N, Spyrka K.
Project title: An evaluation of student pharmacist wellness and wellness services provided at a private university.
Product(s): American Pharmacists Association Annual Meeting. Seattle, WA. March 2019.
Mentor: **Stelter N, Mobley-Bukstein W, Bottenberg MM**

Student name and major: Meyer V, Welter K, Amundson L, Heitkamp T, Reiter D, Gannon E, Modrell B.
Project title: Employee perceptions of pharmacist faculty and student pharmacist-delivered medication management services.
Product(s): American Pharmacists Association Annual Meeting. Seattle, WA. March 2019.
Mentor: **Stelter N, Mobley-Bukstein W, Bottenberg MM, Clarke C.**

Student name and major: Mady Nave
Project title: Cognitive Assessment and Occupation Based Intervention
Product(s): IRB Approved, Data Collected, Data Analyzed; Product in process
Mentor: **Christine Urish**

Student name and major: Maranda Metz, Lindsey Gidel, Cassidy Mullins, Audrey Baker, Lauren Whyllie (OT)
Project title: Aromatherapy and Koru Mindfulness
Product(s): IRB approved, data collected, Analysis at present
Mentor: **Christine Urish**

Student name and major: Mary Grace Wachal, Brianna Mazzei, Taylor Weetman, Kelly Wilhelmi (OT)
Project title: Aromatherapy and Zentangle
Product(s): IRB forthcoming
Mentor: **Christine Urish**

Student name and major: Jenna Niyongere P4 student
Project title: Global barriers to generic antiepileptic medication use
Product(s): Poster at American Epilepsy Society Annual Meeting (December 2019); Manuscript under development
Mentor: **Tim Welty**

Student name and major: Megan Johnson- Psychology Major and Neuroscience and Biology minor
Project title: Concussion knowledge of Drake Athletes
Product(s): will be submitted to the International Concussion Conference (October 2020)
Mentor: **Richelle Williams**

CURRENT PROFESSIONAL MEMBERSHIPS: (74 organizations)

Allen Cognitive Network
Alliance of International Aromatherapists
American Association for Advancement of Science (AAAS)
American Association of Colleges of Pharmacy (AACP)
American Association of Pharmaceutical Scientists (AAPS)
American College of Clinical Pharmacy (ACCP)
American College of Sports Medicine (ACSM),
American Congress of Rehabilitative Medicine Neuro-developmental Treatment Association
American Counseling Association (ACA)
American Diabetes Association
American Economic Association (AEA)
American Epilepsy Society
American Heart Association (AHA)
American Institute of the History of Pharmacy
American Interprofessional Health Collaborative
American Occupational Therapy Association (AOTA)
American Occupational Therapy Association Leaders and Legacy Society
American Pharmacist Association (APhA)
American Physical Therapy Association
American Physiological Society
American Public Health Association (APHA)
American Society for Biochemistry and Molecular Biology
American Society for Human Genetics
American Society for Microbiology
American Society for Pharmacology and Experimental Therapeutics
American Society of Consultant Pharmacists (ASCP)
American Society of Hand Therapists (ASHT)
American Society of Health System Pharmacists (ASHP)
American Sociological Association (ASA)
Association for Applied Sport Psychology (AASP),
Association of Diabetes Care and Education Specialists
Association of Occupational Therapists- Ireland
BASC
Central Iowa Pharmacy Association (CIPA)
College of Psychiatric and Neurologic Pharmacists
Council on Basic Cardiovascular Science
Council for Occupational Therapist for the European Countries
Eastern Economic Association (EEA)
HOSA: Future Health Professionals
International League Against Epilepsy
International Society for Antiviral Research
International Society for the Study of Xenobiotics
Iowa Academy of Science (IAS)
Iowa Association of Diabetes Care and Education Specialists
Iowa Athletic Trainers' Society
Iowa Brain Injury Association
Iowa Occupational Therapy Association (IOTA)
Iowa Pharmacy Association (IPA)
Iowa Physical Therapy Association
Iowa Physiological Society
Iowa Public Health Association
Iowa Rural Health Association,
Kappa Psi Pharmacy Fraternity
Mid-American Athletic Trainers' Association
Midwest Chapter of the American College of Sports Medicine (MWACSM),
Midwestern Economic Association (MEA)
National Athletic Trainers' Association
National Rehabilitation Association (NRA)
National Rural Health Association
National Strength and Conditioning Association (NSCA)
Patient Medication Education Group (PMEG) community

Pediatric Pharmacy Advocacy Group (PPAG)
Phi Delta Chi Pharmacy Fraternity
Phi Lambda Sigma National Leadership Society
Rehabilitation Counselors and Educators Association (RCEA)
Rho Chi Pharmaceutical Honor Society,
SHAPE America: Society of Health and Physical Educators
Society for Neuroscience
Society of Public Health Educators (SOPHE)
Society of Toxicology
Southern Economic Association (SEA)
Team-Based Learning Collaborative
Vestibular Disorders Association (VEDA)
World Federation of Occupational Therapists (WFOT)