



Interoffice Memorandum
College of Pharmacy
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TO: All College of Pharmacy and FSU Community Members and Alumni
FROM: Thomas Dowling, Assistant Dean, Professional Development and Research
DATE: August 18, 2017
RE: FY17 College of Pharmacy Scholarly Activity Report (July 1, 2016 - June 30, 2017)

1.0 GRANTS AND CONTRACTS (Externally Funded)

PHARMACEUTICAL SCIENCES DEPARTMENT

<u>Faculty</u>	<u>Sponsor and Award Details</u>
Bright, David	Sponsor: Western Michigan University (WMED) Title: "Evaluation of the Clinical Utility of Pharmacogenomic Testing in Community Mental Health Patients" Status: Continuation (2016-2017) Total Award: \$15,238 (Subcontract, Year 2)
Lamberts, Jennifer	Sponsor: AACP New Investigator Award Title: "Biological stress and Parkinson's disease: Role of purinergic signaling" Status: New (2017-2018) Total Award: \$10,000

PHARMACY PRACTICE DEPARTMENT

DeVuyst-Miller, Susan	Sponsor: MDCH Chronic Disease Networks (CDC 1422)
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Title: "Implementing Public Health Prevention Strategies for Obesity, Diabetes, Heart Disease and Stroke through Chronic Disease Coordinating Networks"

Status: Continuation: 2015-2018

Total Award: \$53,916 (Subcontract, Year 3)

Klepser, Michael

Sponsor: Gilead Sciences

Title: "Linkage to HCV Confirmatory Testing & Follow-Up Care"

Status: Continuation: 2016-2017

Total Award: \$31,244 (Subcontract, Year 2)

2.0 PUBLICATIONS (Peer Reviewed Journal Articles and Books)

Amissah, Felix

Ofori-Amoah, J., Koffuor, G., Amissah, F., Owusu, G., Antwi, A., Orish, V. (2016). Effects of a Hydro-ethanolic Extract of *Scoparia dulcis* on Systemic Inflammation and Cachexia in an Allergic Asthma Model. *Journal of Advances in Medical and Pharmaceutical Sciences*, 10(2), 1-10.

Ntantie, E., Fletcher, J., Amissah, F., Salako, O. O., Nkembo, A. T., Poku, R. A., Ikpatt, F. O., Lamango, N. S. (2017). Polyisoprenylated cysteinyl amide inhibitors disrupt actin cytoskeleton organization, induce cell rounding and block migration of non-small cell lung cancer. *Oncotarget*, 8(19), 31726-31744.

Nkembo, A. T., Salako, O., Poku, R. A., Amissah, F., Ntantie, E., Flores-Rozas, H., Lamango, N. S. (2016). Disruption of actin filaments and suppression of pancreatic cancer cell viability and migration following treatment with polyisoprenylated cysteinyl amides. *American Journal of Cancer Research*, 6(11), 2532-2546.

Nkembo, A. T., Ntantie, E., Salako, O. O., Amissah, F., Poku, R. A., Latinwo, L. M., Lamango, N. S. (2016). The antiangiogenic effects of polyisoprenylated cysteinyl amide inhibitors in HUVEC, chick embryo and zebrafish is dependent on the polyisoprenyl moiety. *Oncotarget*, 7(42), 68194-68205.

Bailey, Teresa M.

Smith, A. L., Garwood, C. L., Bailey, T. M., DeCator, D., Elder, J. L., Green, A., Kostoff, D., Lucarotti, R. L., MacDonald, N. C., Malburg, D., Ottney, A. R., Remington, T. L., Shuster, J. (2016). State affiliate initiative to advance ambulatory care practice. *Am J Health Syst Pharm*, 73(23), 1909-1914.

Bright, David R.

DiPietro Mager, N., Bright, D. R., Markus, D., Hartzell, D., Batz, L., Gartner, J. (2017). Use of targeted medication reviews to deliver preconception care: a demonstration project. *Journal of the American Pharmacists Association*, 57(1), 90-94.

Kisor, D., Manion, C., Bright, D. R., Smith, T. (2016). Pharmacogenomics: Overview of applications and relation to infusion therapy. *Journal of Infusion Nursing*, 39(3), 139-48.

Kelling, S., Angela, R.-B., Natalie, D. M., Bethany, M., Bright, D. R. (2016). Provision of clinical preventive services by community pharmacists. *Preventing Chronic Disease*, 13 (E149).

DiPietro Mager, N. A., Bright, D. R., Markus, D., Weis, L., Hartzell, D. M., Gartner, J. (2017). Use of targeted medication reviews to deliver preconception care: A demonstration project. *Journal of the American Pharmacists Association : JAPhA*, 57(1), 90-94.e1.

de Voest, Margaret

Bambini, D., Emery, M., de Voest, M., Meny, L. M., Shoemaker, M. (2016). Replicable Interprofessional Competency Outcomes from high-Volume, Inter-Institutional, Interprofessional Simulation. *Pharmacy (Basel)*, 4(4):34.

Devuyst-Miller, Susan A.

Doellner, J. F., Dettloff, R. W., Devuyst-Miller, S. A., Wenstrom, K. L. (2017). Prescriber acceptance rate of pharmacists' recommendations. *Journal of the American Pharmacists Association : JAPhA*, 57(3S), S197-S202.

Devuyst-Miller, S. A., Jalloul, F. M., Stankey, R. C. (2017). *Prescription Opioid Overdose and Naloxone Education: An Educational Resource for Healthcare Professionals on Opioid Overdose Treatments and Best Practices that Save Patient Lives* (pp. 72). Lansing, Michigan: Pharmacy Services Inc. and Michigan Pharmacist Association.

Ding, Qian

Hutton, K., Ding, Q., Wellman, G. S. (2017). The Effects of Bar-coding Technology on Medication Errors. *Journal of Patient Safety* (available online Feb. 24, 2017).

Steuber, T. D., Shiltz, D., Cairns, A. C., Ding, Q., Binger, K. J., Courtney, J. R. (2017). A Multicenter Retrospective Analysis of Factors Associated With Apixaban-Related Bleeding in Hospitalized Patients With End-Stage Renal Disease on Hemodialysis. *Annals of Pharmacotherapy*, 51(11), 954-960.

Dowling Thomas C.

Mindikoglu, A. L., Opekun, A. R., Putluri, N., Devaraj, S., Sheikh-Hamad, D., Vierling, J., Goss, J., Rana, A., Sood, G., Jalal, P., Inker, L. A., Mahoney, R. P., Tighiouart, H., Christenson, R. H., Dowling, T. C., Weir, M. R., Seliger, S., Hutson, W. R., Howell, C. D., Raufman, J. P., Magder, L. S., Coarfa, C. (2017). A Unique Metabolomic Signature Associated with Hepatorenal Dysfunction and Mortality in Cirrhosis. *Translational Research*, 195, 25-47.

Martinez, M. N., Mistry, B., Lukacova, V., Lentz, K. A., Polli, J. E., Hoag, S. W., Dowling, T. C., Kona, R., Fahmy, R. M. (2017). Exploring Canine-Human Differences in Product Performance. Part II: Use of Modeling and Simulation to

Explore the Impact of Formulation on Ciprofloxacin In Vivo Absorption and Dissolution in Dogs. *The AAPS Journal*, 19(3), 712-726.

Vanloo, D. A., Dowling, T. C. (2017). Renal Drug Dosing Concepts. In J. E. Murphy (Ed.), *Clinical Pharmacokinetics* (6th Edition). Bethesda, MD: ASHP.

Dowling, T. C. (2016). Evaluation of Kidney Function. In J. DiPiro (Ed.), *Pharmacotherapy: A Pathophysiologic Approach* (10th Edition). McGraw-Hill.

Dowling, T. C. (2016). Predicting kidney failure risk using a 4-variable estimation equation. *Pharmacotherapy - Access Pharmacy Update 2017*.

Eid, Deeb

Genord, C., Frost, T., Eid, D. (2017). Opioid exit plan: A pharmacist's role in managing acute postoperative pain. *Journal of the American Pharmacists Association : JAPhA*, 57(2S), S92-S98.

Elder, Jodie L.

Smith, A. L., Garwood, C. L., Bailey, T. M., DeCator, D., Elder, J. L., Green, A., Kostoff, D., Lucarotti, R. L., MacDonald, N. C., Malburg, D., Ottney, A. R., Remington, T. L., Shuster, J. (2016). State affiliate initiative to advance ambulatory care practice. *Am J Health Syst Pharm*, 73(23), 1909-1914.

Girand, Heather L.

Girand, H. L. (2016). Influenza. *Pharmacotherapy Principles and Practice Study Guide: A Case-Based Care Plan Approach* (Fourth Edition ed., pp. 301-304). New York, NY: McGraw-Hill Education.

Girand, H. L. (2016). Upper Respiratory Tract Infection. *Pharmacotherapy Principles and Practice Study Guide: A Case-Based Care Plan Approach* (Fourth Edition ed., pp. 305-308). New York, NY: McGraw-Hill Education.

Girand, H. L. (2016). Antibiotic Lock Therapy for Treatment of Catheter-Related Bloodstream Infections. *UpToDate*. Waltham, MA: UpToDate.

Girand, H. L. (2016). Croup. *PPAG University: Pediatric Preparatory Advanced Guide*. Memphis, TN: Pediatric Pharmacy Advocacy Group.

Girand, H. L. (2016). Pulmonary Development and Bronchiolitis. *PPAG University: Pediatric Preparatory Advanced Guide*. Memphis, TN: Pediatric Pharmacy Advocacy Group.

Klepser, Michael E.

Adams, A. J., Klepser, M. E., Klepser, D. (2016). An update on community pharmacies as CLIA-waived facilities. *Research in Social and Administrative Pharmacy*, 12(4), 666-667.

Bacci, J. L., Klepser, D., Tilley, H., Smith, J. K., Klepser, M. E. (2017). Community pharmacy-based point-of-care testing: A case study of pharmacist-physician collaborative working relationships. *Research in Social & Administrative Pharmacy : RSAP*, 14(1):112-115.

- Corn, C. E., Klepser, D. G., Dering-Anderson, A. M., Brown, T. G., Klepser, M. E., Smith, J. K. (2017). Observation of a Pharmacist-Conducted Group A Streptococcal Pharyngitis Point-of-Care Test: A Time and Motion Study. *Journal of Pharmacy Practice*, 31(3):284-291.
- Dobson, E. L., Klepser, M. E., Pogue, J. M., Labreche, M. J., Adams, A. J., Gauthier, T. P., Turner, R. B., Su, C. P., Jacobs, D. M., Suda, K. J. (2017). Outpatient antibiotic stewardship: Interventions and opportunities. *Journal of the American Pharmacists Association : JAPhA*, 57(4), 464-473.
- Goza, M., Kulwicki, B., Akers, J. M., Klepser, M. E. (2017). Syphilis Screening. *Journal of Pharmacy Technology*, 33(2), 53-59.
- Klepser, D. G., Klepser, M. E., Smith, J. K., Dering-Anderson, A. M., Nelson, M., Pohren, L. E. (2017). Utilization of influenza and streptococcal pharyngitis point-of-care testing in the community pharmacy practice setting. *Research in Social & Administrative Pharmacy : RSAP*, 14(4):356-359.
- Klepser, M. E. (2016). Community Based Antimicrobial Stewardship. *ACSAP 2016 Book 3 (Infection Primary Care)*.
- Klepser, M. E., Dobson, E. L., Pogue, J. M., Labreche, M. J., Adams, A. J., Gauthier, T. P., Turner, R. B., Su, C. P., Jacobs, D. M., Suda, K. J. (2017). A call to action for outpatient antibiotic stewardship. *Journal of the American Pharmacists Association : JAPhA*, 57(4), 457-463.
- Klepser, M. E., Morse, J. (2016). Pharmacy-Bases POC Testing and Reimbursement. *PSAP, American College of Clinical Pharmacy*. Lanexa, KS.
- Klepser, M. E., Pattin, A. (2016). POC Testing in Gastroenterology and Hepatology. *PSAP. American College of Clinical Pharmacy*. Lanexa, KS
- Klepser, M., Adams, A. J., Klepser, D. (2016). Clinical service implementation in the face of initial regulatory uncertainty. *Journal of the American Pharmacists Association*, 56(5), 492.
- Koski, R. R., Klepser, M. E. (2017). A systematic review of rapid diagnostic tests for influenza: considerations for the community pharmacist. *Journal of the American Pharmacists Association : JAPhA*, 57(1), 13-19.
- Martin, K., Klepser, M. E. (2016). Laboratory Testing Considerations. *Critical Care Pharmacotherapy*. American College of Clinical Pharmacy. Lanexa, KS.

Koski, Renee R.

- Saunders, J., Maki, K., Koski, R. R., Nybo, E. (2017). Tavaborole, Efinaconazole, and Luliconazole: Three new antimycotic agents for treatment of dermatophytic fungi. *Journal of Pharmacy Practice*, 30(6), 621-30.

Koski, R. R., Kennedy, K. (2017). Treatment with Omalizumab or Cyclosporine for Chronic Spontaneous Urticaria. *Annals of Allergy, Asthma, and Immunology*, 119(5), 397-401.

Koski, R. R., Klepser, M. E. (2017). A systematic review of rapid diagnostic tests for influenza: considerations for the community pharmacist. *Journal of the American Pharmacists Association : JAPhA*, 57(1), 13-19.

Lamberts, Jennifer

Zwart, C. R., Lamberts, J. (2016). Not all dopamine neurons are created equal: Functional heterogeneity of midbrain dopamine axons. *Movement disorders : official journal of the Movement Disorder Society*, 31(10), 1481.

Meny, Lisa M.

Bambini, D., Emery, M., de Voest, M., Meny, L. M., Shoemaker, M. (2016). Replicable Interprofessional Competency Outcomes from high-Volume, Inter-Institutional, Interprofessional Simulation. *Pharmacy (Basel)*, 4(34), Oct 25.

Mersfelder, Tracey L.

VanGalder, K., Mersfelder, T. L., VanLangen, K. M. (2017). Pharmacists' Knowledge of the Cost of Laboratory Testing. *Hospital Pharmacy*, 52(5), 357-360.

Nybo, Eric

Saunders, J., Maki, K., Koski, R. R., Nybo, E. (2017). Tavaborole, Efinaconazole, and Luliconazole: Three new antimycotic agents for treatment of dermatophytic fungi. *Journal of Pharmacy Practice*, 30(6), 621-30.

Nybo, E., J. S., McCormick, S. (2017). Metabolic Engineering of Valerena-1,10-diene in *Escherichia coli*. *Journal of Biotechnology*(262), 60-66.

Kumar, S., Kempinski, C., Zhuang, X., Norris, A., Mafu, S., Zi, J., Bell, S. A., Nybo, S. E., Kinison, S. E., Jiang, Z., Goklany, S., Linscott, K. B., Chen, X., Jia, Q., Brown, S. D., Bowman, J. L., Babbitt, P. C., Peters, R. J., Chen, F., Chappell, J. (2016). Molecular Diversity of Terpene Synthases in the Liverwort *Marchantia polymorpha*. *Plant Cell*, 28(10):2632-2650

Ottney, Anne R.

Smith, A. L., Garwood, C. L., Bailey, T. M., DeCator, D., Elder, J. L., Green, A., Kostoff, D., Lucarotti, R. L., MacDonald, N. C., Malburg, D., Ottney, A. R., Remington, T. L., Shuster, J. (2016). State affiliate initiative to advance ambulatory care practice. *Am J Health Syst Pharm*, 73(23), 1909-1914.

Salvati, Lisa A.

Griffin, D. P., Matte, M. C., Clements, J. M., Palmer, E. A., Bahlke, L., Gardon Rose, J. J., Salvati, L. A. (2016). From Introduction to Integration: Providing Community-Engaged Structure for Interprofessional Education. *Journal of Medical Education and Curricular Development*, 2016(3), 139-148.

Shiltz, Dane

Steuber, T. D., Shiltz, D., Cairns, A. C., Ding, Q., Binger, K. J., Courtney, J. R. (2017). A Multicenter Retrospective Analysis of Factors Associated With

Apixaban-Related Bleeding in Hospitalized Patients With End-Stage Renal Disease on Hemodialysis. *Annals of Pharmacotherapy*, 51(11), 954-960.

Steuber, T., Shiltz, D. (2016). Single-Center Retrospective Evaluation of Inhaled Corticosteroid Use for Chronic Obstructive Pulmonary Disease Exacerbation Patients Receiving Systemic Corticosteroids. *Hospital Pharmacy*, 51(10), 841-846.

Ansara, A. J., Shiltz, D., TuTran, N. (2016). Ischemic Heart Disease: Chronic Stable Angina. *Pharmacotherapy Casebook: A Patient-Focused Approach* (10th ed.).

Smith, Curtis L.

Stein, G. E., Smith, C. L., Scharmen, A. E., Havlichek, D. H. (2016). Evaluation of Ceftaroline and Levofloxacin against Staphylococci Using Serum from Patients with Community-Acquired Pneumonia. *Clinical Microbiology and Infectious Diseases*, 1(2), 33-37.

Smith, C. L. (2017). Antimicrobial prophylaxis for surgery. In T. L. Schwinghammer, J. M. Koehler, J. S. Borchet, D. Slain, & S. K. Park (Eds.), *Pharmacotherapy Casebook: A Patient-Focused Approach* (pp. 368-369). New York, NY: McGraw-Hill.

Straley, Craig

Carr, C., Straley, C., Baugh, T. B. Allopurinol for the treatment of refractory aggression: A case series. *Pharmacotherapy*, 37(6), 748-754.

VanLangen, Kali M.

VanGalder, K., Mersfelder, T. L., VanLangen, K. M. (2017). Pharmacists' Knowledge of the Cost of Laboratory Testing. *Hospital Pharmacy*, 52(5), 357-360.

Vanloo, Dean A.

Vanloo, D. A., Dowling, T. C. (2017). Renal Drug Dosing Concepts. In J. E. Murphy (Ed.), *Clinical Pharmacokinetics* (6th Edition ed.). ASHP. Bethesda, MD

Wellman, Gregory S.

Hutton, K., Ding, Q., Wellman, G. S. (2017). The Effects of Bar-coding Technology on Medication Errors. *Journal of Patient Safety*, (available online Feb. 24, 2017).

3.0 PRESENTATIONS (State, National, International)

Amissah, Felix

Ntantie, Elizabeth , Fletcher, Jerrine , Amissah, Felix , Salako, Olufisayo O , Nkembo, Augustine , Poku, Rosemary , Lamango, Nazarius , American Association for Cancer Research Annual Meeting 2017, "Polyisoprenylated cysteinyl amide inhibitors disrupt actin cytoskeleton organization, induce cell rounding, and block invasion of NSCLC," American Association for Cancer Research, Washington, DC. (April 3, 2017).

Asong, Gladys , Amissah, Felix , Salako, Olufisayo , Poku, Rosemary , Ntantie, Elizabeth , Nkembo, Augustine , Lamango, Nazarius , Ablordeppey, Seth, American Association for Cancer Research Annual Meeting 2017, "Sigma-2 receptor ligands induce apoptosis and inhibit proliferation in breast cancer cell line mda-mb-231," American Association for Cancer Research, Washington, DC. (April 3, 2017).

Axford, Katie L.

Kulwicki, Ben , Sturm, Abby , Axford, Katie L , 51st Annual ASHP Midyear Clinical Meeting and Exhibition, "Evaluation of an intravenous to oral policy for antiepileptic medications, vitamins, and levothyroxine," American Society of Health-Systems Pharmacists, Las Vegas, NV. (December 7, 2016).

Sikkenga, Taylor , Dumkow, Lisa E , Draper, Heather M , Brandt, Kasey L , Rivard, Kaitlyn R , Axford, Katie L , Whalen, David W , Egwuatu, Nnaemeka E , ID Week 2016, "Implementation of a nursing triage order to improve utilization of rapid diagnostic testing for chlamydia and gonorrhea in the emergency department," New Orleans, LA. (October 29, 2016).

Wolf, Lauren , Dumkow, Lisa E , Axford, Katie L , Tomlin, C Ryan , Egwuatu, Nnaemeka , Galang, Minerva A , 2016 National Ryan White Conference on HIV Care and Treatment, "Antiretroviral therapy (ART) regimen changes during pregnancy: do HIV-positive women tolerate ART well?," Health Resources and Services Administration HIV/AIDS Bureau, Washington, DC. (August 23, 2016).

Axford, Katie L , Vanloo, Dean A , 2016 AACP Annual Meeting, "Residency Information Program with Integrated Training (RIP-IT) at Ferris State University College of Pharmacy," American Association of Colleges of Pharmacy, Anaheim, CA. (July 23, 2016).

Bailey, Teresa M.

Bailey, Teresa M, 33rd Annual Developmental Disabilities Conference, "Alternative Medicines Used in Cerebral Palsy," Lansing. (2016).

Bailey, Teresa M, 33rd Annual Developmental Disabilities Conference, "Update on Vitamin D," Lansing. (2016).

Bailey, Teresa M, "Update on Oral Contraceptives," Michigan Center for Rural Health, Webinar. (July 2016).

Bouthillier, Michael J.

Bouthillier, Michael J, Sanders, Gideon, AACP Pipeline Development Webinar, "Building a Diversity Pipeline: Lessons Being Learned Working with an Urban Public High School," AACP, National Webinar. (October 31, 2016).

Bouthillier, Michael J , Nagelkerk, Jean , Trytko, Jeffrey , Pawl, Brenda , Tompkins, Amy , Baer, Lawrence , National Center Summit on the Future of IPE, "Lessons Learned: Implementing IPCP Interventions in Two Primary Care Clinics Treating Underserved Populations," National Center for Interprofessional Practice and Education, Minneapolis MN. (August 2016).

Bright, David R.

DiPietro Mager, Natalie, Bright, David R, Hartzell, David, Markus, Dani, Batz, Lindsey, Pharmacy Quality Alliance Annual Meeting, "Quality improvement of targeted medication reviews for preconception pharmacy services," Pharmacy Quality Alliance. (May 2017).

DiPietro Mager, Natalie, Bright, David R, Markus, Dani, Weis, Lindsey, Hartzell, David, Gartner, James, Ohio Pharmacists Association Annual Meeting, "Development, implementation, and improvement of a pharmacist-provided preconception care initiative," Ohio Pharmacists Association, Columbus, OH. (April 2017).

Bright, David R, American Pharmacists Association Annual Meeting, "Patient perceptions of pharmacogenomic testing in the community pharmacy setting," American Pharmacists Association. (March 2017).

Bright, David R, Klepser, Michael E, Klepser, Donald, Murry, Logan, American Pharmacists Association Annual Meeting, "Pharmacist provided pharmacogenetics point of care testing and consultation service: a time and motion study," American Pharmacists Association. (March 2017).

DiPietro Mager, Natalie, Bright, David R, Hartzell, David, Markus, Dani, Batz, Lindsey, American Pharmacists Association Annual Meeting, "Quality improvement of targeted medication reviews for preconception pharmacy services," American Pharmacists Association. (March 2017).

Bouwma, Allison C , Salvati, Lisa A , Lewellyan, Colleen M , Bright, David R , Sohn, Minji , American Pharmacists Association Annual Convention and Exposition, "General Health Assessment of First Professional Year Pharmacy Students," American Pharmacists Association, San Francisco, California. (March 25, 2017).

Bright, David R, Langerveld, Anna, Kisor, David, Cole, Shanna, Klepser, Stephanie, American Pharmacists Association Annual Meeting, "Pharmacist provided pharmacogenomic clinical decision support service," American Pharmacists Association. (March 25, 2017).

Bright, David R, Michigan Pharmacists Association Annual Convention and Exposition, "Decoding Pharmacogenomics," Michigan Pharmacists Association, Detroit, MI. (February 25, 2017).

de Voest, Peggy

Scanlon, Samantha , Beasley, Jeaninie , Booth, Andrew , de Voest, Margaret, Elenbass, Jessica , French, Doris , Shoemaker, Michael , Terry, Geraldine , Patients: the Heart of Simulation, "Post-Concussion Interprofessional Education Simulation," Society for Simulation in Healthcare, Orlando, FL. (January 29, 2017).

Katterman, Shawn N , Miles, Mia , de Voest, Margaret , Sohn, Minji , Schram, Jon , American Society for Metabolic and Bariatric Surgery, "Changes in psychotropic medications after Roux-en-Y gastric bypass or sleeve gastrectomy." (October 31, 2016).

de Voest, Margaret , MIPERC conference, "Interactive workshop: Interprofessional Scholarship," MIPERC, Grand Rapids, MI. (September 2016).

Devuyst-Miller, Susan A.

Devuyst-Miller, Susan A , Malburg, Dianne E , Michigan Pharmacy Association Legislative Day, "The Next Generation of Standing Orders – It's About Naloxone," Michigan Pharmacist Association, Lansing, Michigan. (April 18, 2017).

Sahr, Michelle , Devuyst-Miller, Susan A , Roe, Brooke , Wenstrom, Katie , American Pharmacist Association Annual Meeting, "Assessment and Utility of an Electronic Pain Questionnaire in a Chronic Pain Population," American Pharmacist Association, San Francisco, California. (March 2017).

Devuyst-Miller, Susan A , Jalloul, Farah , Stankey, Ryan , Michigan Pharmacist Association Annual Convention & Exhibition, "Prescription Opioid Overdose and Naloxone Education," Michigan Pharmacist Association, Detroit, Michigan. (February 26, 2017).

Devuyst-Miller, Susan A , Michigan Pharmacist Association Annual Convention & Exhibition, "Cultural Awareness: Caring for our patients who are LGTBQ," Michigan Pharmacist Association, Detroit, Michigan. (February 25, 2017).

Devuyst-Miller, Susan A, Dowling, Thomas C, 2016 AACP Annual Meeting, "Preventing Chronic Diseases in Underserved Populations through a Collaborative Health Impact Alliance," Anaheim, CA. (July 26, 2016).

Dowling, Thomas C.

Devuyst-Miller, Susan A, Dowling, Thomas C, 2016 AACP Annual Meeting, "Preventing Chronic Diseases in Underserved Populations through a Collaborative Health Impact Alliance," Anaheim, CA. (July 26, 2016).

Dowling, Thomas C, 2016 ASHP Midyear Clinical Meeting, "Comprehensive Assessment of Kidney Function," Las Vegas, NV. (December 6, 2016).

Dowling, Thomas C, Mindikoglu, Ayse, 2017 AASLD Digestive Disease Week, "Robust Metabolomic Signature is Associated with Altered Renal Hemodynamics in Patients with Cirrhosis," AASLD, Chicago, IL. (May 7, 2017).

Dowling, Thomas C, Mindikoglu, Ayse, 2017 AASLD Digestive Disease Week, "Serum Creatinine in Female Patients with Cirrhosis Unfairly Bias Liver Transplant Wait List Ranking: Implications for Elimination of Gender Disparities in Access to Orthotopic Liver Transplantation," American Association for the Study of Liver Disease, Chicago, IL. (May 7, 2017).

Rungkitwattanakul, Jesse, Dowling, Thomas C, 2016 ACCP Annual Meeting, "Comparative review of tertiary medical sources on dialysis of drugs for patients receiving intermittent hemodialysis," American College of Clinical Pharmacy, Hollywood, FL. (October 23, 2016).

Elder, Jodie L.

Elder, Jodie L, Branch, Katherine , Cleghorn, Susan , Brew, Ranelle , Higbea, Raymond , VanderMolen, Julia , 2016 Midwest Interprofessional Practice, Education, and Research Center (MIPERC) Conference, "Evaluation of an Interprofessional Health Expo: Learning Experiences for Healthcare Students and Health Expo Visitors.," MIPERC, Grand Rapids, MI. (September 22, 2016).

Girand, Heather L

Hanson, Tara , Girand, Heather L , 26th Annual Pediatric Pharmacy Advocacy Group Meeting, "Medication administration in schools and childcare settings: a survey on practices, training, and medication errors," PPAG, Charlotte, NC. (May 5, 2017).

Kelsh, Shelby

Kelsh, Shelby , McDermott, Jennifer , Midyear Clinical Meeting, "Impact on renal function and tolerability of everolimus based immunosuppression in adult thoracic transplant patients," ASHP, Las Vegas, NV. (December 2016).

Klepser, Michael E.

Klepser, Michael E, Michigan Department of Health and Human Services Adult Immunization Summit, "Antibiotic Resistance and the value of vaccines," MDHHS, Lansing, Michigan. (June 14, 2017).

Klepser, Michael E, Webinar for American Society of Health-Systems Pharmacists, "Rapid diagnostic technologies in infectious diseases," ASHP, Kalamazoo, MI. (April 27, 2017).

Klepser, Michael E, Hawaii Pharmacists Association, "Use of CLIA-waived POCT in community pharmacies," Hawaii Pharmacists Association, Honolulu, HI. (April 6, 2017).

Bright, David R, Klepser, Michael E, Klepser, Donald, Murry, Logan, American Pharmacists Association Annual Meeting, "Pharmacist provided pharmacogenetics point of care testing and consultation service: a time and motion study," American Pharmacists Association. (March 2017).

Klepser, Michael E, APhA's Annual Meeting and Exposition., "Combating antibiotic-resistant bacteria: A national action plan.," APhA, San Francisco, CA. (March 27, 2017).

Klepser, Michael E, Building Immunization Bridges, "Vaccinations as part of outpatient antimicrobial stewardship programs," MDHHS, Lansing, MI. (November 2, 2016).

Klepser, Michael E, Michigan State Medical Society Annual Meeting, "Optimizing care for HIV-infected individuals through collaborative practice," Michigan State Medical Society, Novi, Michigan. (October 26, 2016).

Klepser, Michael E, Webinar for the Society of Infectious Diseases Pharmacists, "Adult pneumococcal vaccinations: the vital role of the pharmacist in improving outcomes," SIDP, Kalamazoo, MI. (October 2, 2016; September 27, 2016).

Klepser, Michael E, "Adult Immunization in Michigan: using the standards to increase coverage," Michigan Primary Care Association. (September 21, 2016).

Klepser, Michael E, State of Michigan HIV and STD Conference, "Antiretroviral therapy.," MDHHS, Acme, MI. (August 30, 2016).

Klepser, Michael E, Next Generation Dx Summit: Leveraging Pharmacies for Rapid Diagnostics., "Community pharmacies – a growth market for diagnostics." Next Generation Dx Summit: Leveraging Pharmacies for Rapid Diagnostics," Washington, DC. (August 24, 2016).

Klepser, Michael E, Next Generation Dx Summit: Leveraging Pharmacies for Rapid Diagnostics, "Successful disease management models." (August 24, 2016).

Klepser, Michael E, NACDS Total Store Expo, "Best practices for implementing CLIA-waived point-of-care testing services in community pharmacies," Boston, MA. (August 6, 2016).

Koski, Renee R.

Koski, Renee R, MCRH Statewide Videoconference Continuing Education, "Onychomycosis Treatment Update," MSU/Michigan Center for Rural Health, Marquette, MI. (November 9, 2016).

Lamberts, Jenny

Lamberts, Jennifer , Rustem, Danielle , Wallis, Brittnie , Zwart, Colton , Experimental Biology, "ATP Exposure Increases Expression of α -Synuclein in SH-SY5Y Cells: Potential Link Between Neuronal Injury and Parkinson's Disease," ASPET, Chicago, IL. (April 2017).

Tran, Johnson , McCormick, Sean P. , Lamberts, Jennifer, Nybo, Eric , 253rd American Chemical Society National Meeting and Exposition, "Combinatorial engineering of the mevalonic acid pathway for optimization of valerena-1,10-diene production," American Chemical Society, San Francisco, California. (April 2, 2017).

Nybo, Eric

Nybo, Eric, BK21 Lecture Series, "'Metabolic Engineering of Valeriana Sesquiterpenes in Escherichia coli'," Sunkyunkwan University, College of Pharmacy, Suwon, Korea. (August 2, 2016).

Tran, Johnson , McCormick, Sean P. , Lamberts, Jennifer, Nybo, Eric , 253rd American Chemical Society National Meeting and Exposition, "Combinatorial engineering of the mevalonic acid pathway for optimization of valerana-1,10-diene production," American Chemical Society, San Francisco, California. (April 2, 2017).

Ottney, Anne R.

Ottney, Anne R, MPA Annual Convention and Expo, "Free the Pill: Expanding Access to Hormonal Contraceptives," Michigan Pharmacists Association, Detroit, MI. (February 26, 2017).

Ottney, Anne R, Holmi, Emma, ASHP Midyear Meeting, "Impact of health literacy level on time in therapeutic range for patients on chronic anticoagulation managed through a telephone-based service," American Society of Health System Pharmacists, Las Vegas, NV. (December 6, 2016).

Ottney, Anne R, Dontje, Kathy , 9th Annual Midwest Interprofessional Practice, Education, and Research Center Conference, "Bench to Bedside: A Pilot Project Using Core Competencies to Build a Clinical Experience in Primary Care," Grand Valley State University, Grand Rapids, MI. (September 23, 2016).

Ottney, Anne R, MPA Continuing Education Symposium, "Quittin' Time: Trends in Treating Nicotine Dependence," Michigan Pharmacists Association, Traverse City, MI. (August 23, 2016).

Saadeh, Claire E.

Saadeh, Claire E, MI Society of Hematology & Oncology Pharmacists Forum, "Sparrow Health System Cancer Center Oral Oncolytic Program," MI Society of Hematology & Oncology, Chelsea, MI. (May 6, 2017).

Saadeh, Claire E , Michigan Society of Health-System Pharmacists (MSHP) Annual Meeting, "Managing Pain in the Patient with Cancer," MSHP, Grand Rapids, MI. (October 28, 2016).

Salvati, Lisa A.

Bouwma, Allison C , Salvati, Lisa A , Lewellyan, Colleen M , Bright, David R , Sohn, Minji , American Pharmacists Association Annual Convention and Exposition, "General Health Assessment of First Professional Year Pharmacy Students," American Pharmacists Association, San Francisco, California. (March 25, 2017).

Gardon Rose, Jessica J , Bahlke, Laurie , Gabel, Janet , Grettenberger, Susan , Griffin, Daniel , McGuire, Beth , Mostrom, Elizabeth , Putnam, Allison , Salvati, Lisa A , Wieszcieski, Barb , The Role of Interprofessional Teams in Healthcare

Delivery, "Implementing Inter-College Interprofessional Education through a Guided Problem-Based Learning Desktop Simulation Addressing the Healthcare Needs of a Vulnerable Population," Midwest Interprofessional Practice, Education, and Research Center, Grand Rapids, Michigan. (September 22, 2016).

Smith, Curtis L.

Smith, Curtis L, 2017 Updates in Therapeutics: The Pharmacotherapy Prep Review and Recertification Course, "HIV/Infectious Diseases," American College of Clinical Pharmacy, Jacksonville, FL. (February 19, 2017).

Smith, Curtis L, 2017 Updates in Therapeutics: The Pharmacotherapy Prep Review and Recertification Course, "Infectious Diseases," American College of Clinical Pharmacy, Jacksonville, FL. (February 19, 2017).

Smith, Curtis L, 2017 Updates in Therapeutics: The Pharmacotherapy Prep Review and Recertification Course, "Pharmacokinetics: A Refresher," American College of Clinical Pharmacy, Jacksonville, FL. (February 18, 2017).

Sohn, Minji

Bouwma, Allison C , Salvati, Lisa A , Lewellyan, Colleen M , Bright, David R , Sohn, Minji , American Pharmacists Association Annual Convention and Exposition, "General Health Assessment of First Professional Year Pharmacy Students," American Pharmacists Association, San Francisco, California. (March 25, 2017).

Dinardo, Amy , Smiley, Gabrielle , Fosso, Trevor , Sohn, Minji , The American Academy of Optometry, "Drawing a fine line: The difference between satisfaction and dissatisfaction amongst multifocal contact lens wearers," Anaheim Convention Center, CA. (November 9, 2016).

Dinardo, Amy , Smiley, Gabrielle , Fosso, Trevor , Sohn, Minji , The American Academy of Optometry, "The effects of spherical aberration and pupil size on near vision performance with center-near soft multifocal contact lenses," Anaheim Convention Center, CA. (November 9, 2016).

Katterman, Shawn N , Miles, Mia , de Voest, Margaret , Sohn, Minji , Schram, Jon , American Society for Metabolic and Bariatric Surgery, "Changes in psychotropic medications after Roux-en-Y gastric bypass or sleeve gastrectomy." (October 31, 2016).

VanLangen, Kali M.

Donohoe, Krista , Porter, Andrea , VanLangen, Kali M , AACP Laboratory Instructors SIG Webinar, "Incorporation of Students and Residents in the Pharmacy Lab," American Association of Colleges of Pharmacy Laboratory Instructors SIG. (May 24, 2017).

Soucek, Dana , Kulwicki, Benjamin , Dumkow, Lisa E , VanLangen, Kali M , Jameson, Andrew , MAD-ID 2017 Annual Meeting, "Cost Effectiveness of the BioFire FilmArray Meningitis/Encephalitis Panel vs Standard of Care for Meningitis in a Community Teaching Hospital," MAD-ID (Making a Difference in Infectious Diseases), Orlando, Florida. (May 11, 2017).

Vanloo, Dean A.

Axford, Katie L , Vanloo, Dean A , 2016 AACP Annual Meeting, "Residency Information Program with Integrated Training (RIP-IT) at Ferris State University College of Pharmacy," American Association of Colleges of Pharmacy, Anaheim, CA. (July 23, 2016).

Westerhof, Lindsey

Westerhof, Lindsey , Rykse, Austin , Bora, Nirali , Virtual Poster Symposium, "Current knowledge, attitudes, and barriers to implementation of expedited partner therapy (EPT): A survey of West Michigan community pharmacists," American College of Clinical Pharmacy. (May 18, 2017).

4.0 INTELLECTUAL PROPERTY AND PATENTS

Boncher, Tracey

U.S. NON-PROVISIONAL PATENT ISSUED
TITLE: "DUAL PPAR-DELTA PPAR-GAMMA AGONISTS"
INVENTOR(S): RAJESH H. AMIN (AUBURN UNIVERSITY), ORLANDO
ACEVEDO (AUBURN UNIVERSITY) & TRACEY BONCHER (FERRIS
STATE UNIVERSITY)
PATENT NO.: 9,422,239
ISSUE DATE: AUGUST 23, 2016

Nybo, Eric

U.S. PROVISIONAL PATENT APPLICATION SUBMITTED
TITLE: "GENETICALLY MODIFIED HOST ORGANISM FOR EXPRESSING AN
ANTHRACYCLINONE ANALOGUE, METHOD ASSOCIATED THEREWITH,
AND SYNTHETIC NUCLEIC ACIDS"
INVENTOR: NYBO, ERIC
PATENT PENDING