

# FERRIS STATE UNIVERSITY

## COLLEGE OF PHARMACY

Interoffice Memorandum  
College of Pharmacy  
Office of the Dean  
Big Rapids, MI 49307  
Phone: (231) 592-2254

TO: All College of Pharmacy and FSU Community Members and Alumni  
FROM: Thomas Dowling, Assistant Dean, Professional Development and Research  
DATE: September 10, 2021  
RE: FY21 College of Pharmacy Scholarly Activity Report (July 1, 2020 - June 30, 2021)

## 1.0 NEW GRANTS AND CONTRACTS (Externally Funded)

### PHARMACEUTICAL SCIENCES DEPARTMENT

Faculty	Sponsor and Award Details
Kurup, Sonali	KICKSTART Grant Award (MEDC/Univ. of Michigan) Title: <i>Small Molecule EGFR/AURK inhibitors for multi-resistant cancer</i> Start Date: 4/1/2021 Total Award: \$43,987
Kurup, Sonali	NIH/NCI – R15 REAP Grant Title: <i>Novel dual-targeted inhibitors of EGFR and aurora kinase for lung cancer</i> Start Date: 1/8/2021 Total Award: \$377,805
Nybo, Eric	NIH/NCI – R15 REAP Grant Title: <i>Combinatorial biosynthesis and metabolism studies of novel tetracenomycins</i> Start Date: 8/1/2020 Total Award: \$385,406
Nybo, Eric	National Science Foundation Title: <i>BIOPOLYMER – BIObricks POLYketide Metabolic EngineeRing platform</i> Start Date: 7/1/2020 Total Award: \$407,900
Sahr, Michelle	2021 NACDS Scholars Award Title: <i>Fostering community pharmacy practice innovation by teaching outside the box</i> Start Date: 9/22/2020 Total Award: \$5,000

Sahr, Michelle	2021 BCBS of Michigan Title: <i>Physician-Pharmacist Collaboration to Improve Cardiovascular Disease in Rural Communities</i> Start Date: 3/1/2021 Total Award: \$52,000
Sexton, Scott (co-PD/PI)	HRSA RCORP-Implementation Grant (2020) Title: <i>Central Michigan Recovery and Education Network (CMREN)</i> Start Date: 9/1/2020 Total Award: \$1,000,000
Sohn, Minji	Emergent BioSolutions Title: <i>Naloxone Co-Prescribing Study</i> Start Date: 12/19/2020 Total Award: \$172,945

### PHARMACY PRACTICE DEPARTMENT

Faculty	Sponsor and Award Details
Axford, Katie	American Association of Colleges of Pharmacy Project Title: <i>Enhancing Social and Emotional Learning for Student Goal Attainment</i> Start Date: 1/21/2021 Total Award: \$4,000
Elder, Jodie Sexton, Scott	Michigan-Metro Health Integrated Network Project Title: <i>Comprehensive Medication Management</i> Start Date: 3/5/2021 Total Award: \$40,000
Klepser, Michael	MDHHS Project Title: <i>Collaborative community pharmacy-based management of individuals with hypertension and dyslipidemia in rural northern Michigan</i> Start Date: 7/1/2020 Total Award: \$36,711

## 2.0 PUBLICATIONS (Journal Articles, Books and Book Chapters)

### Amissah, Felix

Van Baren, M., Matson, J., Poku, R., Alan, J., Amissah, F. (2021). *Suppressing Lung Cancer Cell Migration and Invasion through Disruption of Rho GTPase Function by Diclofenac and Docosahexaenoic Acid* (S1 ed., vol. 35). Federation of American Societies for Experimental Biology (FASEB).

<https://faseb.onlinelibrary.wiley.com/doi/abs/10.1096/fasebj.2021.35.S1.04404>

Asong, G., Amissah, F., Voshavar, C., Nkembo, A., Ntantie, E., Lamango, N., Ablordeppey, S. (2020). A Mechanistic Investigation on the Anticancer properties of SYA013, a homopiperazine analog of Haloperidol with activity against Triple Negative Breast Cancer Cells. *ACS Omega*.

Poku, R. A., Jones, K. s. J., Van Baren, M., Alan, J. K., Amissah, F. (2020). Diclofenac Enhances Docosahexaenoic Acid-Induced Apoptosis in Vitro in Lung Cancer Cells. *MDPI Cancers*, 12(9), 2683. <https://doi.org/10.3390/cancers12092683>

Smith, T., Afram, K., Nottingham, E. L., Han, B., Amissah, F., Krishnan, S., Trevino, J., Agyare, E. (2020). Application of smart solid lipid nanoparticles to enhance efficacy of 5-Fluorouracil in the treatment of colorectal cancer. *Scientific Reports*, 10(16389). <https://doi.org/10.1038/s41598-020-73218-6>

#### **Axford, Katie**

Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*. <https://www.sciencedirect.com/science/article/pii/S1877129720302173>

#### **Bailey, Teresa**

Singhal, S., Billian, J., Kloosterman, C., Bailey, T. M., Soares, N. (2021). Low Rates of Clinician Monitoring for Second Generation Antipsychotic Medications in Community Pediatric Practice. *Community mental health journal*.

#### **Bernknopf, Allison**

Kepczynski, C., Jaelin, G., Koski, R. R., Bernknopf, A. C., Konieczny, A. M., Klepser, M. E. (2021). A Systematic Review Comparing At-Home Diagnostic Tests for SARS-CoV-2: Key Points for Patients and Community Pharmacists. *Journal of American Pharmacists Association*.

#### **Bouthillier, Michael**

Nagelkerk, J., Trytko, J., Baer, L. J., Tompkins, A., Thompson, M., Bouthillier, M. J., Booth, A., Nord, C. (2021). Sustainability of an IPCP program within a federally qualified health center including interprofessional student team placements. *Journal of interprofessional care*, 1-9.

#### **Bright, David**

Kisor, D., Petry, N., Bright, D. R. (2021). Pharmacogenomics in the community pharmacy: the clopidogrel-CYP2C19 example. *Pharmacogenomics and Personalized Medicine*(14), 569-77.

Bright, D. R., Langerveld, A., Devuyt-Miller, S. A., Saadeh, C. E., Choker, A., Lehigh, E., Wheeler, S., Zayzafoon, A., Sohn, M. (2021). Identification of a sex-stratified genetic algorithm for opioid addiction risk. *The pharmacogenomics journal*.

Roath, E. D., Bright, D. R., DiPietro Mager, N. A. (2021). Retrospective evaluation of preconception care opportunities in a chain community pharmacy setting. *Journal of the American Pharmacists Association : JAPhA*.

VanLangen, K. M., Sahr, M., Salvati, L. A., Meny, L. M., Bright, D. R., Sohn, M. (2021). Viability of Virtual Skills-Based Assessments Focused on Communication. *American Journal of Pharmaceutical Education*.

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Bright, D. R., Petry, N., Roath, E., Reckow, E., Chavour, S. (2020). Barriers, solutions, and impact of using pharmacogenomics data to support opioid prescribing. *Journal of Managed Care & Specialty Pharmacy*.

Bailey, N., Kaarto, P., Burkey, J., Bright, D. R., Sohn, M. (2020). Evaluation of an American Sign Language co-curricular training for pharmacy students. *Currents in pharmacy teaching & learning*, 13(1), 68-72.

(2020). In M. F. Powers & D. R. Bright (Eds.), *The Pharmacy Technician* (7e ed., pp. All). Perspective Press/The American Pharmacists Association.

Bright, D. R., Porter, B. (2020). Patient perceptions of pharmacogenomic testing in the community pharmacy setting. *Research in Social and Administrative Pharmacy*.

Salvati, L. A., Meny, L. M., de Voest, M. C., Bright, D. R., Vavra-Janes, K. L., Young, M., Kelsh, S., Sahr, M., Wellman, G. S. (2020). Assessing the Validity and Reliability of the Pharmacist Interprofessional Competencies Tool. *American Journal of Pharmaceutical Education*, 84(7), ajpe7668.

#### **de Voest, Margaret**

Kelsh, S., Devoest, M., Stout, M. (2021). Improving 30-day readmissions: Student pharmacists' role in transitions of care. *Journal of the American Pharmacists Association*.

#### **Devuyst-Miller, Susan**

Bright, D. R., Langerveld, A., Devuyst-Miller, S. A., Saadeh, C. E., Choker, A., Lehigh, E., Wheeler, S., Zayzafoon, A., Sohn, M. (2021). Identification of a sex-stratified genetic algorithm for opioid addiction risk. *The Pharmacogenomics Journal*.

Bright, D. R., Saadeh, C. E., Devuyst-Miller, S. A., Sohn, M., Choker, A., Langerveld, A. (2020). Pharmacist Consult Reports to Support Pharmacogenomics Report Interpretation. *Pharmacogenomics and Personalized Medicine*, 13, 719-724.

#### **Dowling, Thomas**

Schultz, C. R., Swanson, M. A., Dowling, T. C., Bachmann, A. S. (2021). Probenecid increases renal retention and antitumor activity of DFMO in neuroblastoma. *Cancer Chemotherapy and Pharmacology*, 88(4); 607-617.

Chen AMH, Sweeney, M., Sprague, J. E., Dowling, T. C., Durst, S. W., Eberle, M. M., Stolte, S. K., Talbot, J. N. (2020). Stimulating and sustaining scholarly activity at teaching-intensive institutions. *Currents in Pharmacy Teaching & Learning*, 13(3), 228-237.

## **Durst, Stephen**

Chen AMH, Sweeney, M., Sprague, J. E., Dowling, T. C., Durst, S. W., Eberle, M. M., Stolte, S. K., Talbot, J. N. (2020). Stimulating and sustaining scholarly activity at teaching-intensive institutions. *Currents in Pharmacy Teaching & Learning*, 13(3), 228-237.

## **Girand, Heather**

Mersfelder, T. M., Sohn, M., Girand, H. L. (2021). Factors influencing the involvement of Doctor of Pharmacy students in research and scholarship projects. *Currents in Pharmacy Teaching and Learning*.

<https://doi.org/10.1016/j.cptl.2021.03.020>

Girand, H. L. (2020). Infectious Diarrhea. *Pediatric Pharmacotherapy* (Second edition ed., pp. 719-730). Lenexa, KS: American College of Clinical Pharmacy.

<https://www.accp.com/report/index.aspx?iss=0920&art=16>

Girand, H. L. (2020). Pediatric Vaccines. *Pediatric Pharmacotherapy* (Second edition ed., pp. 801-822). Lenexa, KS: American College of Clinical Pharmacy.

<https://www.accp.com/report/index.aspx?iss=0920&art=16>

Girand, H. L., McNeil, J. C. (2020). Lock therapy for intravascular non-hemodialysis catheter-related infection. *UpToDate*. Waltham, MA: UpToDate. [www.uptodate.com](http://www.uptodate.com)

Girand, H. L. (2020). Influenza. *Pharmacotherapy Principles and Practice Study Guide: A Case-Based Care Plan Approach* (Fifth Edition ed.). New York, NY: McGraw-Hill Education. <https://ppp.mhmedical.com/cases.aspx?groupid=1170>

Girand, H. L. (2020). Upper Respiratory Infection. *Pharmacotherapy Principles and Practice Study Guide: A Case-Based Care Plan Approach* (Fifth Edition ed.). New York, NY: McGraw-Hill Education.

<https://ppp.mhmedical.com/cases.aspx?groupid=1170>

## **Giri, Namita**

Giri, N., saluja, v., mishra, v., Nayak, P., Tambuwala, M. M. (2021). Dendrimers based cancer nanotheranostics: An overview. *Int J Pharm*, 600.

Giri, N. (2020). Fungal resistance to antibiotics. *Antimicrobial Resistance: Opportunities and Challenges* (1st ed., vol. 1, pp. 81-104). New York: Nova Medicine and Health.

Giri, N. (2020). Viral Drug Resistance. *AntiMicrobial Resistance: Opportunities and Challenges* (1st ed., vol. 1, pp. 191-214). New York: Nova Medicine and Health Publisher.

## **Kelsh, Shelby**

Kelsh, S., Devoest, M., Stout, M. (2021). Improving 30-day readmissions: Student pharmacists' role in transitions of care. *Journal of the American Pharmacists Association*.

Sahr, M., Kelsh, S., Blower, N., Sohn, M. (2021). Pilot Study of Electronic Nicotine Delivery Systems (ENDS) Cessation Methods. *Pharmacy*, 9(1).  
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### **Klepser, Michael**

Kepczynski, C., Jaelin, G., Koski, R. R., Bernknopf, A. C., Konieczny, A. M., Klepser, M. E. (2021). A Systematic Review Comparing At-Home Diagnostic Tests for SARS-CoV-2: Key Points for Patients and Community Pharmacists. *Journal of American Pharmacists Association*.

Klepser, N. S., Klepser, D. G., Adams, J. L., Adams, A. J., Klepser, M. E. (2020). Impact of COVID-19 on prevalence of community pharmacies as CLIA-Waived facilities. *Research in social & administrative pharmacy: RSAP*.

Sohn, M., Chung, D., Winterholler, E., Hammershaimb, B., Leist, C., Kucera, M., Trombly, M., Tracey, J., Dregansky, G., Schauer, M., Rauch, H., Woodwyk, A., Vanloo, D. A., Warner, A., Klepser, M. E. (2020). Assessment of antibiotic use and concordance with practice guidelines within 3 diverse ambulatory clinic systems. *Journal of the American Pharmacists Association: JAPhA*, 60(6).

Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*.  
<https://www.sciencedirect.com/science/article/pii/S1877129720302173>

### **Koski, Renee**

Kepczynski, C., Jaelin, G., Koski, R. R., Bernknopf, A. C., Konieczny, A. M., Klepser, M. E. (2021). A Systematic Review Comparing At-Home Diagnostic Tests for SARS-CoV-2: Key Points for Patients and Community Pharmacists. *Journal of American Pharmacists Association*.

### **Kurup, Sonali**

Vanangamudi, M., Kurup, S., Namasivayam, V. (2020). Non-nucleoside reverse transcriptase inhibitors (NNRTIs): A brief overview of clinically approved drugs and combination regimens. *Current Opinion in Pharmacology*, 54, 179-187.

### **Lamberts, Jennifer**

Lamberts, J., Vandiver, J., Daugherty, K. K., DiVall, M. V., Lebovitz, L., Roberts, S. (2021). Perceptions of Programs That Orient Non-Practice Faculty to the Pharmacy Profession. *Currents in Pharmacy Teaching and Learning*, 13(7), 812-818.

## Lyons, Margaret

Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*.  
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## Meny, Lisa

Meny, L. M., Seiferlein, M. R., Chen, A. M. (2021). Faculty Perceptions of a Town Hall Model for Engagement in Data-Driven Decision Making. *Currents in Pharmacy Teaching and Learning*, 13(8).

VanLangen, K. M., Sahr, M., Salvati, L. A., Meny, L. M., Bright, D. R., Sohn, M. (2021). Viability of Virtual Skills-Based Assessments Focused on Communication. *American Journal of Pharmaceutical Education*.

Meny, L. M., Seiferlein, M. R., Chen, A. M., Maerten-Rivera, J., Pavuluri, N., Malinowski, J., Kolluru, S., Medina, M., Nutan, M., Seiferlein, M. (2020). Administration and Evaluation of the American Association of Colleges of Pharmacy Curriculum Quality Surveys in Pharmacy Schools. *American Journal of Pharmaceutical Education*, 85(3).

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## Mersfelder, Tracey

Mersfelder, T. L. (2021). *Student Pharmacists' Impression of Three Pandemics* (10th ed., vol. Spring 2020). American Association of Colleges of Pharmacy.

Kumar, D., Rehman, M. E., Mersfelder, T. L., Patel, P. (2021). Flecainide-induced myalgias and weakness: A rare adverse reaction. *BMJ Case Reports*, 14(4).  
<https://casereports.bmj.com/content/14/4/e238699>

## Nybo, Eric

Wandi, B. N., Brown, K., Metsa-Ketela, M., Nybo, E. (2020). Pathway engineering of anthracyclines: Blazing trails in natural product glycodiversification. *Journal of Organic Chemistry*. <https://doi.org/10.1021/acs.joc.0c01863>

Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*.  
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Pontefract, B., Ho, H. T., Crain, A., Kharel, M. K., Nybo, E. (2020). Drugs for Gram-Negative Bugs from 2010 - 2019: A decade in review. *Open Forum Infectious Diseases*. <https://academic.oup.com/ofid/article/doi/10.1093/ofid/ofaa276/5867191>

### **Ottney, Anne**

Coon, S. A., Hill, L. G., Hutchison, R. W., Arnold, L. M., Jarrett, J. B., Ottney, A. R., Oung, A. B., Painter, N. A., Smith, M. A., Stranges, P. M., Tran, T. H., McFee-Winans, A. R., Bratberg, J. P. (2020). Mobilizing pharmacists to address the opioid crisis: A joint opinion of the ambulatory care and adult medicine practice and research networks of the American College of Clinical Pharmacy. *Journal of the American College of Clinical Pharmacy*, 3(8), 1493-1513.

### **Pontefract, Benjamin**

Rovelsky, S. A., Remington, R. E., Nevers, M., Pontefract, B., Hersh, A. L., Samore, M., Madaras-Kelly, K. (2021). Comparative Effectiveness and Safety of Amoxicillin versus Amoxicillin-Clavulanate for Acute Sinusitis in Emergency Department and Urgent Care Settings. *JACEP Open*.

Vanderhorst, D., Sohn, M., Pontefract, B. (2021). Outpatient Antimicrobial Stewardship – The Next Frontier. *MSHP Monitor*.

Madaras-Kelly, K., Hostler, C., Townsend, M., Potter, E., Spivak, E., Hall, S., Goetz, M., Nevers, M., Ying, J., Haaland, B., Rovelsky, S., Pontefract, B., Fleming-Dutra, K., Hicks, L., Samore, M. (2020). Impact of Implementation of the Core Elements of Outpatient Antibiotic Stewardship Within Veterans Health Administration Emergency Departments and Primary Care Clinics on Antibiotic Prescribing and Patient Outcomes. *Clin Infect Dis*(ciaa1831).

Pontefract, B., Rovelsky, S. A., Madaras-Kelly, K. J. (2020). Linezolid to Treat Urinary Tract Infections Caused by Vancomycin Resistant Enterococcus. *SAGE Open Medicine*(8), 1-7.

<https://journals.sagepub.com/doi/pdf/10.1177/2050312120970743>

Pontefract, B., Ho, H. T., Crain, A., Kharel, M. K., Nybo, E. (2020). Drugs for Gram-Negative Bugs from 2010 - 2019: A decade in review. *Open Forum Infectious Diseases*. <https://academic.oup.com/ofid/article/doi/10.1093/ofid/ofaa276/5867191>

### **Saadeh, Claire**

Bright, D. R., Langerveld, A., Devuyt-Miller, S. A., Saadeh, C. E., Choker, A., Lehigh, E., Wheeler, S., Zayzafoon, A., Sohn, M. (2021). Identification of a sex-stratified genetic algorithm for opioid addiction risk. *The pharmacogenomics journal*.

Bright, D. R., Saadeh, C. E., Devuyt-Miller, S. A., Sohn, M., Choker, A., Langerveld, A. (2020). Pharmacist Consult Reports to Support Pharmacogenomics Report Interpretation. *Pharmacogenomics and personalized medicine*, 13, 719-724.

### **Sahr, Michelle**

Sahr, M. (2021). Commentary: Pilot Study of Electronic Nicotine Delivery Systems (ENDS) Cessation Methods. *Journal of Addiction Research & Therapy*.

VanLangen, K. M., Sahr, M., Salvati, L. A., Meny, L. M., Bright, D. R., Sohn, M. (2021). Viability of Virtual Skills-Based Assessments Focused on Communication. *American Journal of Pharmaceutical Education*.

Sahr, M., Kelsh, S., Blower, N., Sohn, M. (2021). Pilot Study of Electronic Nicotine Delivery Systems (ENDS) Cessation Methods. *Pharmacy*, 9(1).  
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Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*.  
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### **Salvati, Lisa**

VanLangen, K. M., Sahr, M., Salvati, L. A., Meny, L. M., Bright, D. R., Sohn, M. (2021). Viability of Virtual Skills-Based Assessments Focused on Communication. *American Journal of Pharmaceutical Education*.

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### **Schmidt, Kyle**

Krancevich, N. M., Belfer, J. J., Draper, H. M., Schmidt, K. J. (2021). Impact of Opioid Administration in the Intensive Care Unit and Subsequent Use in Opioid-Naïve Patients. *The Annals of Pharmacotherapy*.

Schmidt, K. J. (2021). The Third Certainty in Life: Change (4th ed., vol. 45). *MSHP Monitor*. Lansing, Michigan.

### **Shiltz, Dane**

Hunt, A., Coffeen, S., Shiltz, D., Ice, C., Parker, J. (2021). Factor Eight Inhibitor Bypassing Activity (FEIBA®) Reversal for Apixaban and Rivaroxaban in Patients with Acute Intracranial and Non-intracranial Hemorrhage. *Annals of Pharmacotherapy*.  
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## Sohn, Minji

Delcher, C., Cheng, Y., Sohn, M., Talbert, J., Freeman, P. R. (2021). *Medicare-paid Naloxone: Trends in Non-metropolitan and Metropolitan Areas* (18th ed.). Lexington, KY:.

Sohn, M., Talbert, J. C., Huang, Z., Oser, C., Freeman, P. R. (2021). Trends in Urine Drug Monitoring Among Persons Receiving Long-Term Opioids and Persons with Opioid Use Disorder in the United States. *Pain physician*, 24(2), E249-E256.

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Bright, D. R., Langerveld, A., Devuyt-Miller, S. A., Saadeh, C. E., Choker, A., Lehigh, E., Wheeler, S., Zayzafoon, A., Sohn, M. (2021). Identification of a sex-stratified genetic algorithm for opioid addiction risk. *The Pharmacogenomics Journal*.

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Sohn, M. (2020). Drug Distribution System. *Remington: The Science and Practice of Pharmacy 23rd Edition*. Elsevier.

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Delcher, C., Moga, D., Li, Y., Muñños, M., Sohn, M., Bae, J. (2020). Pharmacoepidemiology and pharmacovigilance. *Remington: The Science and Practice of Pharmacy 23rd Edition*. Elsevier.

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Bailey, N., Kaarto, P., Burkey, J., Bright, D. R., Sohn, M. (2020). Evaluation of an American Sign Language co-curricular training for pharmacy students. *Currents in pharmacy teaching & learning*, 13(1), 68-72.

Sohn, M., Chung, D., Winterholler, E., Hammershaimb, B., Leist, C., Kucera, M., Trombly, M., Tracey, J., Dregansky, G., Schauer, M., Rauch, H., Woodwyk, A., Vanloo, D. A., Warner, A., Klepser, M. E. (2020). Assessment of antibiotic use and concordance with practice guidelines within 3 diverse ambulatory clinic systems. *Journal of the American Pharmacists Association : JAPhA*, 60(6).

Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*.

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#### **VanLangen, Kali**

VanLangen, K. M., Sahr, M., Salvati, L. A., Meny, L. M., Bright, D. R., Sohn, M. (2021). Viability of Virtual Skills-Based Assessments Focused on Communication. *American Journal of Pharmaceutical Education*.

Ellena, K., Wolf, L., Dumkow, L., VanLangen, K. M. (2020). Treatment of Asymptomatic Pyuria In Psychiatric Patients Discharged From the Emergency Department Following Antimicrobial Stewardship Implementation. *Journal of the American College of Clinical Pharmacy*.

#### **Vanloo, Dean**

Sohn, M., Chung, D., Winterholler, E., Hammershaimb, B., Leist, C., Kucera, M., Trombly, M., Tracey, J., Dregansky, G., Schauer, M., Rauch, H., Woodwyk, A., Vanloo, D. A., Warner, A., Klepser, M. E. (2020). Assessment of antibiotic use and concordance with practice guidelines within 3 diverse ambulatory clinic systems. *Journal of the American Pharmacists Association JAPhA*, 60(6).

#### **Wellman, Gregory**

Salvati, L. A., Meny, L. M., de Voest, M. C., Bright, D. R., Vavra-Janes, K. L., Young, M., Kelsh, S., Sahr, M., Wellman, G. S. (2020). Assessing the Validity and Reliability of the Pharmacist Interprofessional Competencies Tool. *American journal of pharmaceutical education*, 84(7), ajpe7668.

#### **Young, Mark**

Nybo, E., Sahr, M., Young, M., Axford, K. L., Sohn, M., Lyons, M., Klepser, M. E. (2020). Design of a large-scale escape room for first-year pharmacy student orientation. *Currents in Pharmacy Teaching and Learning*.

<https://www.sciencedirect.com/science/article/pii/S1877129720302173>

Salvati, L. A., Meny, L. M., de Voest, M. C., Bright, D. R., Vavra-Janes, K. L., Young, M., Kelsh, S., Sahr, M., Wellman, G. S. (2020). Assessing the Validity and Reliability of the Pharmacist Interprofessional Competencies Tool. *American journal of pharmaceutical education*, 84(7), ajpe7668.

### **3.0 PRESENTATIONS**

#### **Amissah, Felix**

Amissah, F., HatchEd 2021, "Suppressing Tumor Growth to Prevent Lung Cancer Metastasis," Ferris State University, Big Rapids, Michigan. (February 18, 2021).

Amissah, F., Haim G. and Jane Graumann Nagirner Weinstein Symposium Series, "Modulating oncogenic GTPase signaling in cancer using COX inhibitors and PUFAs," Pharmacology and Toxicology Department - College of Human Medicine, MSU, Virtual - <https://rosalindfranklin.zoom.us/j/99794424268>. (December 7, 2020).

Amissah, F., Research and Practice Round Table, "Targeting oncogenic GTPase signaling in cancer using COX inhibitors and polyunsaturated fatty acids," College of Pharmacy - Ferris State University, College of Pharmacy - Virtual presentation - <https://zoom.us/j/97681455185>. (November 13, 2020).

Matson, J., Kurup, S., Amissah, F., West Michigan Regional Undergraduate and Graduate Science Symposium (WMRUGS), "Investigation of simultaneous EGFR and aurora kinase inhibition in non-small cell lung cancer cells," Van Andel Research Institute, Grand Rapids - Virtual. (November 7, 2020).

Amissah, F., Michigan State University - PharmTox Seminar, "Modulating oncogenic GTPase signaling in cancer using COX inhibitors and PUFAs," Pharmacology and Toxicology Department - College of Human Medicine, MSU, Virtual - <https://msu.zoom.us/j/99644597462>. (November 4, 2020).

Amissah, F., Central Michigan University - Mitochondria Research Group, "Targeting oncogenic GTPase signaling in cancer using COX inhibitors and PUFAs," College of Medicine - CMU, Central Michigan University. (October 26, 2020).

Amissah, F., Jones, K. J., Van Baren, M., Alan, J. K., Poku, R. A., Cell Signaling in Cancer: from Mechanisms to Therapy, "Non-steroidal anti-inflammatory drugs and polyunsaturated fatty acids induce apoptosis by inhibiting RAS/MEK/ERK and PI3K/Akt pathways," FASEB Science Research Conferences, Virtual Science Research Conference Series. (September 21, 2020).

### **Bailey, Teresa M.**

Bailey, T. M., WMed CF Family Day, "Let'S NOT talk about it," WMed, Online. (June 2021).

Bailey, T. M., Kloosterman, C., Developmental Disabilities Conference, "Antipsychotics in Pediatric Prescribing," WMed, Online. (April 2021).

### **Bright, David**

Bright, D. R., Christian Pharmacists Fellowship International Annual Conference, "Cultivating leadership growth in pharmacy. Bright DR.," Christian Pharmacists Fellowship International, Online. (June 5, 2021).

McDonough, R., Bright, D. R., Dreyer, S., Burke, R., Drug Topics Webinar, "Immunization delivery and patient care in community pharmacies: What workflow is best for your team?," Drug Topics, Online. (April 14, 2021).

Reidenbach, M., DiPietro Mager, N., Bright, D. R., Michigan Pharmacists Association Annual Convention and Exposition, "Contraception prescribing by pharmacists: National and Michigan perspectives," Michigan Pharmacists Association, Online. (February 22, 2021).

Meny, L. M., VanLangen, K. M., Bright, D. R., Lamberts, J., HatchEd, "I Know It's In There Somewhere: A Data Driven Approach to Evaluating Teaching, Learning, and Course Effectiveness in a Virtual Learning Environment," Ferris State University, Virtual Conference. (February 18, 2021).

### **Coveyou, Jill A.**

Coveyou, J. A., Developing a Systematic and Interprofessional Collaborative Practice Approach to the Patient Experience, "PROJECT ECHO: PERCEPTIONS OF HEALTH PROFESSIONS STUDENTS ON THE USE OF TELE-MENTORING TO IMPROVE MANAGEMENT OF SUBSTANCE USE DISORDERS," Midwest Interprofessional Practice, Education, and Research Center, Grand Rapids (zoom). (September 17, 2020).

Coveyou, J. A., Substance Use Disorder Project ECHO, "Project ECHO: Pain Management in the Substance Use Disorder Patient (Part 1)," Saginaw Valley State University, Zoom. (July 15, 2020).

### **de Voest, Peggy**

Devoest, M., MSHP TOC Summit, "Pharmacy Students and TOC," MSHP, zoom. (October 2020).

Kelsh, S., deVoest, M., Spectrum Health Pharmacy Grand Rounds, "Transitions of care between inpatient and ambulatory care pharmacists," Spectrum Health, Grand Rapids, MI. (July 22, 2020).

### **Devuyst-Miller, Susan A.**

Berry, K., Devuyst-Miller, S. A., Klepser, M. E., Konieczny, A. M., Most, A., Sohn, M., 2020 ACCP Annual Meeting, "Characterizing Individual's Perceptions, Biases, and Barriers Regarding Obtaining Naloxone from Pharmacies," American College of Clinical Pharmacy, Webinar. (October 28, 2020).

### **Ding, Qian**

Ding, Q., Shiltz, D., Hossami, D., International Society for Pharmacoeconomics and Outcomes (ISPOR) Annual Meeting 2021, "The TOTAL Medical Expenditure and out-of-Pocket Expenditure of Biologic Disease-Modifying Antirheumatic Drugs in Rheumatoid Arthritis Patients in the United States," International Society for Pharmacoeconomics and Outcomes (ISPOR), Virtual. (May 17, 2021).

### **Dowling, Thomas**

Dowling, T. C., 2021 Spring Seminar, "Pitfalls in Estimating Kidney Function," FSU College of Pharmacy, Virtual. (May 25, 2021).

Dowling, T. C., 2021 AMCP Annual Meeting, "Overview of Anemia in CKD: The Potential Role of HIF-PH Inhibitors," Academy of Managed Care Pharmacy, Virtual. (April 15, 2021).

Klepser, M. E., Dowling, T. C., Durst, S. W., Damari, D. A., Konieczny, A. M., 2021 FSU HatchEd, "FLITE Pilot Project: Embedded Librarian Arrangement has Taken Off," Ferris State University, Webinar. (February 18, 2021).

Dowling, T. C., Stapp, W., Stakley, D., Peterson, A., Herrington, H., Russo, T., Konieczny, A. M., Buys, A. M., HatchEd, "Pursuing External Grants@Ferris: Matchmaking 101," Ferris State University, Zoom. (February 18, 2021).

Dowling, T. C., Thomas, A., Gums, J., 2021 ACCP Annual Meeting, "National Trends in Direct Patient Care and Payment Models Among Pharmacy," American College of Clinical Pharmacy, Virtual. (October 20, 2020).

### **Durst, Stephen W.**

Klepser, M. E., Dowling, T. C., Durst, S. W., Damari, D. A., Konieczny, A. M., 2021 FSU HatchEd, "FLITE Pilot Project: Embedded Librarian Arrangement has Taken Off," Ferris State University, Webinar. (February 18, 2021).

### **Eid, Deeb**

Eid, D., WMSHP Fall/Spring Seminar 2020, "The 28th Amendment: The Right To Practice Pharmacy," WMSHP/MPA, Virtual. (September 8, 2020).

Eid, D., Fava, J., Vroman, J., Moving the Needle: Immunization Training for Pharmacy Technicians, "Moving the Needle: Immunization Training for Pharmacy Technicians," Wayne State/Meijer Pharmacy, Virtual. (August 20, 2020).

Eid, D., Pharmacy Technician Educators Council Annual Meeting, "Pharmacy Full Scope of Practice: Evidence > Emotions," PTEC, Virtual. (July 24, 2020).

### **Elder, Jodie L.**

Elder, J. L., 19th Annual Metro Health Research Day, "Effectiveness of Clinical Decision Support on Improving Counseling and Contraceptive Practices in Women of Childbearing Ability Prescribed Teratogenic Medications," Metro Health- University of Michigan Health, Wyoming, MI. (May 25, 2021).

Elder, J. L., 19th Annual Metro Health Research Day, "Quality Improvement Initiative to Educate Patients on the Risks and Benefits of Long-Term Use of Depot Medroxyprogesterone Acetate and Bone Effects," Metro Health- University of Michigan Health, Wyoming, MI. (May 25, 2021).

**Girand, Heather L.**

Hebovija, E., Mersfelder, T. L., Girand, H. L., Sohn, M., 2021 Grand Rapids Citywide Research Day, "Distinguishing curriculum vitae components for community pharmacy applicants," Virtual. (April 20, 2021).

Hebovija, E., Mersfelder, T. L., Girand, H. L., Sohn, M., American Society of Health-System Pharmacists Midyear Clinical Meeting, "Distinguishing curriculum vitae components for community pharmacy applicants," Virtual. (December 2020).

**Kelsh, Shelby**

Sahr, M., Kelsh, S., Research & Practice Roundtable, "Vaping-Related Projects," College of Pharmacy Professional Development Committee, virtual. (April 1, 2021).

Kelsh, S., Internal Medicine Grand Rounds, "Obesity and Oral Anticoagulation," Spectrum Health, Web. (January 2021).

Shaffer, G., Romain, M., Kelsh, S., Sahr, M., Annual Meeting, "Improving Documentation of Electronic Cigarette Users in Clinical Practice," ACCP, Web. (October 2020).

Kelsh, S., deVoest, M., Spectrum Health Pharmacy Grand Rounds, "Transitions of care between inpatient and ambulatory care pharmacists," Spectrum Health, Grand Rapids, MI. (July 22, 2020).

**Klepser, Michael E.**

Klepser, M. E., Grubbs, E., Ford, J., Ho, H., Sohn, M., 2021 APhA Annual Meeting & Exposition, "Utilization of the Collaboration to Harmonize Antimicrobial Registry Measures (CHARM) Dashboard To Support Outpatient Antimicrobial Stewardship," American Pharmacists Association. (March 12, 2021).

Klepser, M. E., 2021 MPA Annual Convention & Exposition, "SARS-CoV-2 testing: Technologies, performance, and implementation," Michigan Pharmacists Association, Webinar. (February 26, 2021).

Klepser, M. E., 2021 Molecular Med Tri-Con, "Community-Based SARS-CoV-2 Testing Strategies," Cambridge Healthtech Institute, Webinar. (February 18, 2021).

Klepser, M. E., 2021 FSU HatchEd, "Fall Re-entry and Testing: Education Meets Service During the Pandemic," Ferris State, Webinar. (February 18, 2021).

Klepser, M. E., Dowling, T. C., Durst, S. W., Damari, D. A., Konieczny, A. M., 2021 FSU HatchEd, "FLITE Pilot Project: Embedded Librarian Arrangement has Taken Off," Ferris State University, Webinar. (February 18, 2021).

Berry, K., Devuyst-Miller, S. A., Klepser, M. E., Konieczny, A. M., Most, A., Sohn, M., 2020 ACCP Annual Meeting, "Characterizing Individual's Perceptions, Biases,

and Barriers Regarding Obtaining Naloxone from Pharmacies," American College of Clinical Pharmacy, Webinar. (October 28, 2020).

### **Kurup, Sonali**

Kurup, S., Great Lakes Regional Meeting, American Chemical Society, "Dual-targeted EGFR/AURK inhibitors for multi-resistant lung cancer." (June 2021).

Kurup, S., DeJong, K., Assaad, K., Matson, J., Amissah, F., National Meeting, American Chemical Society, "Design, synthesis, and evaluation of dual AURK and EGFR inhibitors for non-small cell lung cancer," American Chemical Society. (April 2021).

Kurup, S., National Meeting, American Chemical Society, "Teaching drug discovery in the context of COVID-19," American Chemical Society. (April 2021).

Kurup, S., HatchEd, "Optimization of dual-targeted EGFR/AURK inhibitors as cell permeable anticancer agents," Ferris State University. (March 2021).

Matson, J., Kurup, S., Amissah, F., West Michigan Regional Undergraduate and Graduate Science Symposium (WMRUGS), "Investigation of simultaneous EGFR and aurora kinase inhibition in non-small cell lung cancer cells," Van Andel Research Institute, Grand Rapids - Virtual. (November 7, 2020).

### **Lamberts, Jenny**

Meny, L. M., VanLangen, K. M., Bright, D. R., Lamberts, J., HatchEd, "I Know It's In There Somewhere: A Data Driven Approach to Evaluating Teaching, Learning, and Course Effectiveness in a Virtual Learning Environment," Ferris State University, Virtual Conference. (February 18, 2021).

### **Meny, Lisa M.**

Meny, L. M., ExamSoft Virtual Events, "Accreditation from Three Perspectives," ExamSoft. (March 25, 2021).

Meny, L. M., VanLangen, K. M., Bright, D. R., Lamberts, J., HatchEd, "I Know It's In There Somewhere: A Data Driven Approach to Evaluating Teaching, Learning, and Course Effectiveness in a Virtual Learning Environment," Ferris State University, Virtual Conference. (February 18, 2021).

VanLangen, K. M., Meny, L. M., HatchEd, "Transitioning In-Person Skills-Based Assessments to a Virtual Environment," Ferris State University, Virtual Conference. (February 18, 2021).

Meny, L. M., VanLangen, K. M., American Association of Colleges of Pharmacy Annual Meeting, "'Tuh-MAY-Toe" of "Tah-MAH-Toe". The Pragmatist vs. Idealist APPE-Readiness Debate," Virtual. (July 2020).

Meny, L. M., American Association of Colleges of Pharmacy Annual Meeting, "The Final Chapter: Using ExamSoft Rubrics on Advanced Pharmacy Practice

Experiences," American Association of Colleges of Pharmacy, Virtual. (July 2020).

Meny, L. M., American Association of Colleges of Pharmacy Annual Meeting, "The G.A.M.E. of Life: Academic Pharmacy Edition," American Association of Colleges of Pharmacy, Virtual. (July 2020).

### **Mersfelder, Tracey L.**

Mersfelder, T. L., WMSHP 52nd Annual Spring Seminar, "I GOUT my Pain CE," Western Michigan Society of Health-Systems Pharmacists, Virtual. (May 11, 2021).

Hebovija, E., Mersfelder, T. L., Girand, H. L., Sohn, M., The Grand Rapids Citywide Research Day, "Distinguishing Curriculum Vitae Components for Community Pharmacy Applicants," Grand Rapids, Michigan. (April 20, 2021).

Hebovija, E., Mersfelder, T. L., Girand, H. L., Sohn, M., ASHP Midyear Clinical Meeting, "Distinguishing Curriculum Vitae Components for Community Pharmacy Applicants," American Society of Health System Pharmacists, Virtual. (December 9, 2020).

Kumar, D., Rehman, M. E., Patel, P., Mersfelder, T. L., American Heart Association Scientific Sessions, "Flecainide Induced Myalgias," American Heart Association, Virtual. (November 14, 2020).

Shamsi, W. E., Kavanaugh, K., Mersfelder, T. L., American College of Physicians Michigan Chapter Scientific Meeting, "Utility and Usefulness of a Diabetes Medication Poster in an Internal Medicine/Medicine-Pediatric Clinic - Phase II," American College of Physicians, Virtual Meeting. (October 16, 2020).

Mersfelder, T. L., Roach, R. R., The 10th Annual Western Michigan University Medical Humanities Conference, "Stuck at Home? Not the first time. How the Plague Caused the Discovery of Bacteria and the Failed Remedies.," Western Michigan University, Kalamazoo, Michigan - Virtual. (September 25, 2020).

### **Nybo, Eric**

Brown, K. V., Riebschleger, K., Gorgijevska, N., Pike, S., Nybo, E., West Michigan Regional Undergraduate Science Research Conference, "BioBricks® metabolic engineering of elloramycin and tetracenomycins," Van Andel Institute, Grand Rapids, MI. (November 5, 2020).

Luekin, M., Nguyen, J., Riebschleger, K., Hunt, S., Pike, S., Nybo, E., West Michigan Regional Undergraduate Science Research Conference (WMRUGS), "BIOPOLYMER®: BIOBricks POLYketide Metabolic EngineeRing of minimal polyketide synthases," Van Andel Institute, Grand Rapids, MI. (November 5, 2020).

Nguyen, J., Riebschleger, K., Brown, K. V., Nybo, E., West Michigan Regional Undergraduate Science Research Conference, "Multiplexed BioBricks®

metabolic engineering of central carbon metabolism in the actinorhodin pathway," Van Andel Institute, Grand Rapids, MI. (November 5, 2020).

### **Ottney, Anne R.**

Aquino, L., Phillips, J., Odom, A., Ottney, A. R., 2021 Society of Teachers of Family Medicine Annual Spring Conference, "Evaluation of a Peer-to-Peer Intervention in Opioid Prescribing Practice Within a U.S. Family Medicine Residency Program," Society of Teachers of Family Medicine, Virtual. (May 3, 2021).

Ottney, A., Lebeau, L., American Pharmacists Association Annual Meeting, "A "Secret Shopper" Survey of Pharmacist Prenatal Vitamin Recommendations," American Pharmacists Association, Virtual. (March 12, 2021).

Ottney, A. R., HatchEd, "Pharmacist (& Student Pharmacist) Integration into a Mental Health Collaborative Care Team," Ferris State University, Virtual. (February 18, 2021).

### **Pontefract, Ben**

Sohn, M., Pontefract, B., Great Lakes Infectious Disease Conference, "Update on CHARM Dashboard across Michigan in relation to tracking antibiotic use in the ambulatory setting," Ferris State University College of Pharmacy, Online. (March 13, 2021).

### **Saadeh, Claire E.**

Saadeh, C. E., Michigan Society of Hematology & Oncology: Oncology Pharmacist Forum, "New Drug Updates: Oral Oncolytics," Michigan Society of Hematology & Oncology, Virtual. (August 20, 2020).

### **Sahr, Michelle**

Sahr, M., Kelsh, S., Research & Practice Roundtable, "Vaping-Related Projects," College of Pharmacy Professional Development Committee, virtual. (April 1, 2021).

Shaffer, G., Romain, M., Kelsh, S., Sahr, M., Annual Meeting, "Improving Documentation of Electronic Cigarette Users in Clinical Practice," ACCP, Web. (October 2020).

Sahr, M., Hahn, B., MSHP Annual Meeting, "Unclouding the Truth behind EVALI," Michigan Society of Health-systems Pharmacists, virtual. (October 30, 2020).

Sahr, M., New Faculty Orientation, "Zoom Polling & Canvas Integration," Faculty Center for Teaching & Learning, virtual. (August 20, 2020).

### **Schmidt, Kyle**

Schmidt, K. J., 2021 Spring Seminar, "Updates in Heart Failure Pharmacotherapy," Ferris State University. (May 25, 2021).

Krancevich, N. M., Belfer, J. J., Schmidt, K. J., 2020 ACCP Annual Meeting, "Impact of Opioid Administration in the ICU and Subsequent Use in Opioid-Naive Patients," American College of Clinical Pharmacy. (October 26, 2020).

### **Shiltz, Dane**

Ding, Q., Shiltz, D., Hossami, D., International Society for Pharmacoeconomics and Outcomes (ISPOR) Annual Meeting 2021, "The TOTAL Medical Expenditure and out-of-Pocket Expenditure of Biologic Disease-Modifying Antirheumatic Drugs in Rheumatoid Arthritis Patients in the United States," International Society for Pharmacoeconomics and Outcomes (ISPOR), Virtual. (May 17, 2021).

Hunt, A. R., Coffeen, S., Shiltz, D., Ice, C., Parker, J., Society of Critical Care Medicine (SCCM) 50th Critical Care Congress, "FEIBA® Reversal for Apixaban and Rivaroxaban in Intracranial and Non-intracranial Hemorrhage," Society of Critical Care Medicine (SCCM), Virtual. (January 31, 2021).

Shiltz, D., AACP Annual Meeting: 2020 Leadership in Enrollment Management Workshop, "Using a Mannequin to Introduce Fundamental Pharmacy Curriculum Concepts to Prospective Students During Recruitment Encounters," AACP, Long Beach, CA. (July 17, 2020).

### **Smith, Curtis L.**

Smith, C. L., 2021 Updates in Therapeutics: The Pharmacotherapy Prep Review and Recertification Course, "Infectious Diseases 1," ACCP, Online. (April 28, 2021).

Smith, C. L., 2021 Updates in Therapeutics: The Pharmacotherapy Prep Review and Recertification Course, "Infectious Diseases 2," ACCP, Online. (April 28, 2021).

Smith, C. L., 2021 Updates in Therapeutics: The Pharmacotherapy Prep Review and Recertification Course, "Pharmacokinetics: A Refresher," ACCP, Online. (April 28, 2021).

Smith, C. L., Wenstrom, K., CAPA CE Program, "Multiple Sclerosis: Emerging Therapy," Capital Area Pharmacists Association, Lansing. (January 26, 2021).

### **Sohn, Minji**

Sohn, M., Pontefract, B., Great Lakes Infectious Disease Conference, "Update on CHARM Dashboard across Michigan in relation to tracking antibiotic use in the ambulatory setting," Ferris State University College of Pharmacy, Online. (March 13, 2021).

Klepser, M. E., Grubbs, E., Ford, J., Ho, H., Sohn, M., 2021 APhA Annual Meeting & Exposition, "Utilization of the Collaboration to Harmonize Antimicrobial Registry Measures (CHARM) Dashboard To Support Outpatient Antimicrobial

Stewardship," American Pharmacists Association. (March 12, 2021).

Sohn, M., HatchED, "Tracking Antibiotic Use in The Ambulatory Setting," Ferris State University. (February 18, 2021).

Berry, K., Devuyst-Miller, S. A., Klepser, M. E., Konieczny, A. M., Most, A., Sohn, M., 2020 ACCP Annual Meeting, "Characterizing Individual's Perceptions, Biases, and Barriers Regarding Obtaining Naloxone from Pharmacies," American College of Clinical Pharmacy, Webinar. (October 28, 2020).

#### **VanLangen, Kali M.**

Meny, L. M., VanLangen, K. M., Bright, D. R., Lamberts, J., HatchEd, "I Know It's In There Somewhere: A Data Driven Approach to Evaluating Teaching, Learning, and Course Effectiveness in a Virtual Learning Environment," Ferris State University, Virtual Conference. (February 18, 2021).

VanLangen, K. M., Meny, L. M., HatchEd, "Transitioning In-Person Skills-Based Assessments to a Virtual Environment," Ferris State University, Virtual Conference. (February 18, 2021).

Meny, L. M., VanLangen, K. M., American Association of Colleges of Pharmacy Annual Meeting, "'Tuh-MAY-Toe" of "Tah-MAH-Toe". The Pragmatist vs. Idealist APPE-Readiness Debate," Virtual. (July 2020).

#### **Vanloo, Dean A.**

Vanloo, D. A., Nguyen, D. N., Kiel, W., ASHP Midyear Clinical Meeting, "Cost-Benefit Analysis of Clinical Outcomes in Diabetic Patients with Ambulatory Care Pharmacist Intervention," ASHP, Virtual. (December 9, 2020).

## **4.0 INTELLECTUAL PROPERTY**

### **New Patent Applications:**

INVENTOR: Kurup, Sonali  
TITLE: ***"INHIBITORS FOR MULTI-RESISTANT CANCERS"***  
APPLICATION TYPE: Non-Provisional Patent Application

### **Prior Patents Issued:**

INVENTOR(s): Amin, Rajesh H., Ward, Tracey  
TITLE: ***"DUAL PPAR-delta and PPAR-gamma agonists"***  
PATENT No. US 10,844,003 B1  
ISSUE DATE: November 24, 2020

INVENTOR: Nybo, Eric  
TITLE: ***“GENETICALLY MODIFIED HOST ORGANISM FOR EXPRESSING AN ANTHRACYCLINONE ANALOGUE, METHOD ASSOCIATED THEREWITH, AND SYNTHETIC NUCLEIC ACIDS”***  
PATENT No. US 10,980,817  
ISSUE DATE: April 20, 2021