



In This Issue

Summer 2019

[SOP Launches Nation's First Master's in Medical Cannabis Science and Therapeutics](#)

[Pumas-AI Launches Pumas Software to Advance Drug Development, Patient Care](#)

[White Paper Spotlights Safe, Appropriate Methadone Use in Hospice and Palliative Care](#)

[SOP's Brandt Receives National Award for Leadership in Geriatrics Education](#)

[McPherson Honored with USM Board of Regents Award](#)

[Associate Dean Honored with National Creativity in Practice and Education Award](#)

[Boyle Honored for Longtime Support of APhA Foundation](#)

[Gobburu Receives ASCP's Sheiner-Beal Pharmacometrics Award](#)

[Assistant Professor Receives National Pharmacy Leadership Award](#)

Dear colleagues,

As chair of the Department of Pharmacy Practice and Science (PPS), I was thrilled to see so many PPS faculty sharing their ideas and projects at the recent annual meeting of the American Association of Colleges of Pharmacy. From posters and presentations to interacting with visitors at the University of Maryland School of Pharmacy's booth in the exhibit hall, our faculty were everywhere.



A highlight of the meeting for the department and the School was the session we hosted on Disruptive Innovation in Pharmacy - [Pharmapreneurship](#), at which Dean Eddington, special guests, and a faculty panel discussed the disruptive innovation needed in American pharmacy education related to entrepreneurship, innovation, and groundbreaking research and partnerships. [Click here](#) to view a video on our pharmapreneurship initiative.

The department achievements below highlight our faculty's expertise, influence, and impact. But most importantly, they highlight our commitment to advancing pharmacy education, scientific discovery, patient care, and community engagement across the state of Maryland and beyond.

Sincerely,

[Jill A. Morgan, PharmD, BCPS, BCPPS](#)
Professor and Chair

SOP Launches Nation's First Master's in Medical Cannabis Science and Therapeutics

[SOP Joins
Community Initiative
to Advance Health
Care in West
Baltimore](#)

[School Joins UM
Quality Care Network
on Telehealth Grant](#)

[Kudos!](#)

[Publications](#)

[Presentations/Posters](#)



The School of Pharmacy has launched a new [Master of Science \(MS\) in Medical Cannabis Science and Therapeutics](#) to provide students with the knowledge and skills needed to support patients and the medical cannabis industry, add to existing research in the field, and develop well-informed medical cannabis policy. Based at the Universities at Shady Grove (USG) in Rockville, Md., the two-year program blends online learning with face-to-face experiences, and is designed for any individual who has completed his or her undergraduate degree and is interested in pursuing a career in the medical cannabis industry. The MS in Medical Cannabis Science and Therapeutics is the first graduate program in the country dedicated to the study of medical cannabis. It aims to meet the needs of all individuals interested in advancing their knowledge about medical cannabis, including health care professionals such as physicians, nurses, and pharmacists; scientists and regulators; growers and dispensary owners; and policy and industry professionals. [Read more here...](#)

Pumas-AI Launches Pumas Software to Advance Drug Development, Patient Care



PuMaS
Pharmaceutical Modeling and Simulation

Pumas-AI - a new company established by School of Pharmacy faculty members [Vijay Ivaturi, PhD](#), assistant professor in PPS, and [Joga Gobburu, PhD, MBA](#), professor in PPS and director of the [Center for Translational Medicine](#) - is proud to announce the release of its first cutting-edge software platform for pharmaceutical researchers and clinicians. Known as Pharmaceutical Modeling and Simulation (Pumas), the software was developed through a partnership with experts at Julia Computing. Pumas is the first software platform released by Pumas-AI, whose goal is to double

pharmaceutical and patient care success rates by democratizing tools and education in the health care data analytics space. The Pumas software platform provides a wide range of analytic capabilities for pharmaceutical and biotechnology development, as well as therapeutic decision making - addressing a crucial need for pharmaceutical companies and investors, who often base their decisions on a combination of technical, regulatory, and commercial success probabilities, all of which the Pumas software can provide quantitatively. [Read more here...](#)

White Paper Spotlights Safe, Appropriate Methadone Use in Hospice and Palliative Care



More than a dozen experts across the fields of hospice and palliative care came together to publish a white paper that offers guidelines for the safe and appropriate use of methadone in patients near the end-of-life. Led by [Mary Lynn McPherson, PharmD, MA, MDE, BCPS, CPE](#), professor and executive director of advanced post-graduate education in palliative care in PPS, and [Kathryn Walker, PharmD, BCPS, CPE](#), associate professor in PPS, the expert team aimed to build on recommendations issued by the American Pain Society, the College on Problems of Drug Dependence, and the Heart Rhythm Society in 2014. The paper - titled "Safe and Appropriate Use of Methadone in Hospice and Palliative Care: Expert Consensus White Paper" - was published in the March issue of the *Journal of Pain and Symptom Management*. [Read more here...](#)

SOP's Brandt Receives National Award for Leadership in Geriatrics Education



[Nicole Brandt, PharmD, MBA, BCPP, BCGP, FASCP](#), professor in PPS, has been named the 2019 recipient of the American Geriatrics Society's (AGS) Dennis W. Jahnigen Memorial Award. This annual award recognizes AGS members who have provided leadership to train students in geriatrics and significantly contributed to the progress of geriatrics education in health profession schools. Dr. Brandt, who also serves as executive director of the [Peter Lamy Center on Drug Therapy and Aging](#) at the School of Pharmacy, is the first pharmacist to be honored with the award. [Read more here...](#)

McPherson Honored with USM Board of Regents Award



[Mary Lynn McPherson, PharmD, MA, MDE, BCPS, CPE](#), professor and executive director of advanced post-graduate education in palliative care in PPS, was named the 2019 recipient of the University System of Maryland (USM) Board of Regents Award for Excellence in Teaching. The USM Board of Regents Awards represent the highest honor presented to faculty members in recognition of exemplary performance in the fields of teaching; scholarship, research, or creative activity; public service; mentoring; and innovation. [Read more here...](#)

Associate Dean Honored with National Creativity in Practice and Education Award



[Magaly Rodriguez de Bittner, PharmD, FAPhA, FNAP](#), professor in PPS and associate dean for clinical services and practice transformation, has been named the 2019 recipient of the National Academies of Practice's Creativity in Practice and Education Award. The award is presented each year to a health care professional who has dedicated his or her career to developing and fostering interdisciplinary team programs, projects, and models that focus on the improvement of health care. [Read more here...](#)

Boyle Honored for Longtime Support of APhA Foundation



Cynthia J. Boyle, PharmD, FAPhA, FNAP, FASCP, professor in PPS, has been named the 2019 recipient of the Jacob W. Miller Award by the American Pharmacists Association (APhA) Foundation. Established in 2000, the Jacob W. Miller Award is presented annually to an individual who has helped to advance the mission of the APhA Foundation through involvement in its programs, support of its initiatives, and leadership in executing its mission. [Read more here...](#)

Gobburu Receives ASCP's Sheiner-Beal Pharmacometrics Award



[Joga Gobburu, PhD, MBA](#), professor in PPS, director of Center for Translational Medicine, has been named the 2019 recipient of the American Society for Clinical Pharmacology and Therapeutics' (ASCPT) Sheiner-Beal Pharmacometrics Award. It recognizes outstanding achievements at the forefront of research or leadership in pharmacometrics and the application of pharmacometric concepts and techniques to enhance research, development, regulatory evaluation, or utilization of therapeutic products. [Read more here...](#)

Assistant Professor Receives National Pharmacy Leadership Award



[Joey Mattingly, PharmD, MBA](#), assistant professor in PPS, has been named the 2019 recipient of the Albert B. Prescott Pharmacy Leadership Award. Presented annually by the Pharmacy Leadership & Education Institute, in conjunction with the Phi Lambda Sigma Pharmacy Leadership Society, the award recognizes a young pharmacist no more than 10 years into his or her career who has demonstrated the exemplary leadership qualities indicative of someone likely to emerge as a major leader in the pharmacy profession over the course of his or her career. [Read more here...](#)

SOP Joins Community Initiative to Advance Health Care in West Baltimore



The School of Pharmacy has partnered with other health profession schools across the University of Maryland, Baltimore (UMB), as well as the University of Maryland Medical Center (UMMC) and the Baltimore City Fire Department, to launch Mobile Integrated Healthcare - Community Paramedicine (MIH-CP). Through this innovative, community-based program, pharmacists working in the School's e-Health Center will provide comprehensive medication reviews to patients using state-of-the-art telehealth technologies.

[Read more here...](#)

School Joins UM Quality Care Network on Telehealth Grant



The School of Pharmacy is partnering with the University of Maryland Quality Care Network (UMQCN) on a \$150,000 grant from the Maryland Health Care Commission that aims to improve health outcomes, enhance quality of primary care, and reduce costs associated with inpatient and emergency room visits for patients diagnosed with chronic obstructive pulmonary disease (COPD). Through this project, specially trained pharmacists at the School of Pharmacy in Baltimore use state-of-the-art telehealth technologies available in the School's e-Health Center to provide comprehensive medication therapy management services to patients receiving care for COPD on Maryland's Eastern Shore. [Read more here...](#)

Kudos!

Our department's faculty and staff are regularly recognized at the local and national level for their expertise. Here is a short list of recent accomplishments.

- [Nicole Brandt, PharmD](#), professor and executive director of the [Peter Lamy Center on Drug Therapy and Aging](#), has been appointed to the Health Resources and Services Administration's Advisory Committee on Interdisciplinary, Community-Based Linkages.
- [Kimberly Claeys, PharmD](#), assistant professor, has been appointed to the Research Committee of the Society for Healthcare Epidemiology of America.
- **Ryan Constantino, PharmD**, a PGY2 palliative care resident, won third place in the International Palliative Care Network's 2018 Poster Exhibition.
- [Sandeep Devabhakthuni, PharmD](#), associate professor, has been named president-elect of the Maryland Society of Health-System Pharmacy.
- [Mojdeh Heavner, PharmD](#), assistant professor, has been accepted into the American Academy of Sleep Medicine Foundation's Young Investigators Research Forum.
- **Amy Howard, PharmD**, a pediatric fellow, has received the Ton Hoek Scholarship from the American Pharmacists Association Foundation.
- **Shamir Kalaria**, a student in the MS in Pharmacometrics program, received a 2019 New Investigator Award from the American Society of Clinical Psychopharmacology.
- [Cherokee Layson-Wolf, PharmD](#), associate professor and associate dean for student affairs, received an Honorable Mention in the American Pharmacists Association's 2019 Immunization Champions Awards in the Individual Practitioner category.
- [Kristine Parbuoni, PharmD](#), associate professor, has been elected to the Board of Directors of the Maryland Society of Health-System Pharmacy.
- [Katy Pincus, PharmD](#), assistant professor, received the Richard Parish Lecture Award from the District of Columbia College of Clinical Pharmacy.
- **Erica Pixley, MBA**, senior academic program specialist, was named UMB's December Employee of the Month.
- [Deanna Tran, PharmD](#), assistant professor, has been selected to receive the American Pharmacists Association-Academy of Student Pharmacists' Outstanding Chapter Advisor Award.
- **Mona Tsoukleris, PharmD**, associate professor, has been named president-elect of the Association of Asthma Educators.

Publications

- Armstrong F, McCurdy M, **Heavner MS**. Synthetic Cannabinoid-associated Multiple Organ Failure: Case Series and Literature Review. *Pharmacotherapy*. 2019 [Accepted for publication]
- Bland CM, Bookstaver PB, Griffith NC, **Heil EL**, Jones BM, Justo JA, Staicu ML, Torney NP, Wall GC. From Theory to Practice: A Practical Guide for Pharmacists to Implement Penicillin Allergy Skin Testing. *American Journal of Health System Pharmacy* 2019;76:136-47
- **Claeys KC**, Blanco-Herrera N, Morgan DJ, Leekha SL, Sullivan KV. Advances and Challenges in the Diagnosis and Treatment of Urinary Tract Infections: the Need for Diagnostic Stewardship. *Current Infectious Disease Reports*. 2019 Mar 5;21(4):11. PMID: 30834993
- **Claeys KC**, Hopkins T, Brown J, **Heil EL**. Pharmacists' Perceptions of Implementing an Area Under the Concentration Time Curve Pharmacist-to-Dose Program at a Large Academic Medical Center. *Journal of the American College of Clinical Pharmacy* 2019 (in press).
- Kadoyama KL, Noble BN, Izumi S, Fromme EK, Tjia J, **McPherson ML**, Candrian CB, McGregor JC, Ku I, Furuno JP. Frequency and Documentation of Medication Decisions on Discharge from the Hospital to Hospice Care. *Journal of the American Geriatrics Society*. In press.
- Kelly DL, **Love RC**. Psychiatric Pharmacist's Role in Overcoming Barriers to Clozapine Use and Improving Management. *Mental Health Clinician*. 2019;9(2): 64-69. <https://doi.org/10.9740/mhc.2019.03.064>

- **Leonard JB, Klein-Schwartz W.** Using a Spare Medication Vial to Store Multiple Medications: A Potentially Fatal In-home Medication Error. *American Journal of Health System Pharmacy* 2019 Feb 9;76(5):264-265. doi: 10.1093/ajhp/zxy037
- **Leonard JB, Klein-Schwartz W.** The Others: Characterizing "Other" Therapeutic Errors Reported to a Poison Center. *Clinical Toxicology* 2019 Jan 2:1-5. doi: 10.1080/15563650.2018.1538520. [Epub ahead of print]
- **Mattingly II TJ, Menger S, Heil EL.** Penicillin Skin Testing in Methicillin-sensitive Staphylococcus Aureus Bacteremia: A Cost-effectiveness Analysis. *PLoS ONE*. 2019. <https://doi.org/10.1371/journal.pone.0210271>
- **Mattingly II TJ, Slejko JF, Perfetto EM, dosReis SC.** Putting Our Guard Down: Engaging Multiple Stakeholders to Define Value in Healthcare. *Health Affairs Blog*. Posted online January 28, 2019. Available at: <https://www.healthaffairs.org/doi/10.1377/hblog20190125.84658/full/>
- **Mattingly II TJ, Pandit NS, Onukwugha E.** Burden of Co-Infection: A Cost Analysis of Human Immunodeficiency Virus in a Commercially Insured Hepatitis C Virus Population. *Infectious Diseases and Therapy*. 2019. Online March 2, 2019 at: <https://link.springer.com/article/10.1007%2Fs40121-019-0240-7>
- **McPherson AL, McPherson ML.** Deprescribing: Right-sizing Medication Regimens to Optimize Outcomes in Palliative Care. *Current Geriatrics Reports*. Epub, 2019.
- **McPherson, ML.** The Future of Pain Management: An Expert's Roundtable (interviewed). *Practical Pain Management* Jan/Feb 2019, 25-32.
- **McPherson, ML, Walker, KA, Davis, MP, Bruera, E, et al.** Safe and Appropriate Use of Methadone in Hospice and Palliative Care: Expert Consensus White Paper. *Journal of Pain and Symptom Management* Volume 57, Issue 3, March 2019, Pages 635-645.e4 Available at: <https://www.sciencedirect.com/science/article/pii/S088539241831114X?dcid=author>
- **Reed BN, DiDomenico RJ, Allender JE, Coons JC, Cox JF, Johnson D, Oliphant CS, Jennings DL.** Survey of Anticoagulation Practices with the Impella Percutaneous Ventricular Assist Device High-volume Centers. *Journal of Interventional Cardiology*. doi: 10.1155/2019/3791307
- **Reed BN, Gottlieb SS.** Diuretic Strategies and Renal Dysfunction in Heart Failure with Preserved Ejection Fraction. *JACC Heart Failure*. 2018 Dec;6(12):1049-1050. doi: 10.1016/j.jchf.2018.08.006.
- **Stolz PA, Wehring HJ, Liu F, Love RC, Ellis M, DiPaula BA, Kelly DL.** Effects of Cigarette Smoking and Clozapine Treatment on 20-Year All-Cause & Cardiovascular Mortality in Schizophrenia. *Psychiatric Quarterly*. 2019 Jan 10. doi: 10.1007/s11126-018-9621-4. [Epub ahead of print]

Presentations/Posters

- **Boyle, C.** Influence: Leveraging Compelling Forces in a Crucible of Change. COIT Seminar speaker. University of Arizona. March 20, 2019.
- **Brandt, N.** Listening to the Medicare beneficiaries: Findings from a National Survey on the Medication Therapy Management (MTM) Standardized Format." AMCP Annual Meeting 2019 (San Diego, CA).
- **Claeys, KC.** How to Measure the Effectiveness of Incorporating Antibiogram Data at Your Facility. Peter Lamy Center on Drug Therapy and Aging Webinar, February 2019, Baltimore, MD. ACPE: 0025-0000-19-010-L01-P
- **Dixon R, Gonzales JP, Shah N, Davenport J, Wilson J, Kapoor N, Yeung SY, Heavner MS, Tisherman S.** Interprofessional Simulation for Enhancing Knowledge, Teamwork, and Communication in Students. Society of Critical Care Medicine, February 2019. San Diego, CA.
- **Donaho E, Panke JT, Delarosa WN, Fahlberg B, McPherson ML.** Can You Catch My Breath? Because I Sure Can't. Maybe a Low Dose Combination Diuretic would Help. Read paper Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.

- Gonzales JP, Shah N, Wilson T, Davenport J, Dixon R, Yeung SY, Kapoor N, Olivieri P, **Heavner MS**, Tisherman S. An Interprofessional Approach to Improve Knowledge and Teamwork Skills for the Treatment of Sepsis. Society of Critical Care Medicine, February 2019. San Diego, CA.
- Hsu G, Gonzales JP, **Heavner MS**, Jean W. Empiric Antibiotic Dosing in Septic Shock is Conservative. Society of Critical Care Medicine, February 2019. San Diego, CA.
- Jones E, **McPherson ML**, **Morgan J**. Speed Dating for Kids 2.0. Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- **Love RC**, Young AC. Updates to the Clozapine REMS Program. SMIAdviser, American Psychiatric Association, National Webinar, February 2019. Planner and speaker.
- Masich A, Kalaria S, Gonzales J, **Heil E**, Tata A, **Claeys KC**, Patel D, Gopalakrishnan M. Comparison of Vancomycin Trough Attainment in Obese Septic Patients Versus Non-Obese Septic Patients. Society of Critical Care Medicine (SCCM), February 2019, San Diego, CA [Platform]
- **Mattingly TJ**. Exploring the 340B Research Landscape. Invited presentation for the 340B Coalition Winter Conference in San Diego, California, January 31, 2019.
- **McPherson ML**. "Advancing Evidence-Based Pain Management for Serious and Advanced Illness in an Era of the Opioid Epidemic." CMS Palliative Care Affinity Group, CMS Quality Conference 2019, Baltimore, Maryland, January 2019.
- **McPherson ML**, **Walker K**, Kutner J, McFarland J, Vanston J, Prommer E, Rao A. Deprescribing by the Specialists: Best Practices in Drug Therapy in Serious Illness. Preconference at the Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- **McPherson ML**, **Walker K**, Kearney C. Go Fish! Formative Feedback on the Communication Conundrum! Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- **McPherson ML**, Davis M. Calculating Conversations about Opioid Conversions: Not Your Mama's Equianalgesic Chart! Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- **McPherson ML**. New Drugs and Drug News: The 411 and Implications for Palliative Care. Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- **Reed BN**. Solving the Revolving Door: Managing Heart Failure at Transitions of Care and Beyond. Invited Presentation. Virginia Pharmacists Association Midyear Meeting. Roanoke, VA. February 2019.
- **Reed BN**. Blood from a Stone: Managing Diuretic Resistance in Acute Decompensated Heart Failure. Invited Presentation. Caring for Heart Failure Patients: From Stage Through D and Beyond. University of Maryland. Baltimore, MD. January 2019.
- **Sera L**, **Morgan J**, **McPherson ML**. Are Pediatric Patients just Short Adults? Most Commonly Prescribed Drugs for Pediatric Hospice Patients. Poster presentation Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- **Walker K**, **McPherson ML**. Speed Dating with the Pharmacy Ladies! Annual Assembly Hospice & Palliative Care, Orlando, Florida, March 2019.
- Wilson JC, **Heavner MS**, Sullivan S, Dixon R. Hemolytic Crisis Secondary to Acetaminophen Overdose in Glucose-6-phosphate Dehydrogenase Deficiency. Society of Critical Care Medicine, February 2019. San Diego, CA.
- Witcraft E, Gonzales JP, Tata A, Millstein L, Yeung SY, **Heavner MS**, Watt I, Qato D, Gulati M. Characterization of Opioid Continuation at Transitions of Care in the Critically Ill. Society of Critical Care Medicine, February 2019. San Diego, CA.
- **Zarowitz BJ**, Sheikh F, Naqvi F, **Heil E**, **Brandt N**. Interprofessional Collaboration Improves Antibiotic Stewardship. AMDA - The Society of Post-Acute and Long-Term Care Medicine 2019 Annual Conference. Atlanta, GA. March 2019

