



Report to the Texas Pharmacy Congress — February 20-21, 2019

ASP INVITED TO PRESENT POSTER ON WOMEN'S HEALTH PROJECTS AT APHA NATIONAL MEETING

The UH College of Pharmacy Chapter of the American Pharmacists Association-Academy of Student Pharmacists is one of three chapters nationwide invited to present a poster on their fall 2018 activities in support of the APhA-ASP Women's Health Campaign at the APhA Annual Meeting & Exposition March 22-25 in Seattle.

The campaign encouraged chapters to promote the importance of the HPV vaccine in preventing cancer, promote the pharmacist's role in reproductive health, and organize an event focused on a women's health topic. Among the chapter's activities were a pink lemonade stand fundraiser and breast cancer awareness display for a local women's cancer nonprofit, seminars for pharmacy students on such topics as pregnancy complications and OTC medications during pregnancy



and breastfeeding), and hosting an HPV education booth on campus. Through these activities, the chapter reached 475 patients through education and screenings and 82,191 through public relations and various media platforms, including the chapter's social media channels and the campus newspaper and radio station.



TOP 10 IN ASHP CLINICAL SKILLS

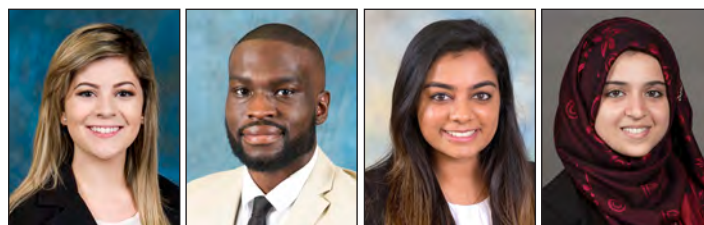
UH College of Pharmacy Pharm.D. candidates Stephanie Crowley and Diane Dreucean are celebrating the achievement of a long-standing goal: Advancing to the top 10 finalists in the 2018 American Society of Health-System Pharmacists National Clinical Skills Competition in December. Crowley and Dreucean had won their class division each year in the local UHCOP competition, as well as the statewide title in their P1 year and an honorable mention in their P2 year.

UH FIELDS 2 OF 3 FINALIST TEAMS IN TSHP LEADERSHIP CHALLENGE

UH College of Pharmacy will be represented by two of the three finalist teams in the Texas Society of Health-System Pharmacists' Leadership Challenge Competition at the TSHP Annual Seminar April 12-14 in Frisco, Texas.

The TSHP Leadership Challenge "is designed to help students further explore their roles as leaders in the healthcare field" (tshp.org). Competitors were asked to submit a proposal of plans and strategies to address a problematic hospital pharmacy scenario. The finalist teams will present their plans before a live judging panel at the TSHP meeting.

The UHCOP teams are **Serenity Gracia, Chidi Iroegbu, Julina Joseph** and **Aimen Naveed**, and **Amilda Medina, Alin Nguyen**, and **Van Nguyen**.



Gracia

Iroegbu

Joseph

Naveed



Medina

A. Nguyen

V. Nguyen

Student News



The UHCOP chapters of the Academy of Managed Care Pharmacy and the Industry Pharmacists Organization co-hosted their 4th Annual Round Table Event Jan. 18, with pharmacists from across the nation offering advice and insights to students on careers in managed care and the pharmaceutical industry.

In addition, the team of **Kim Dinh, Angie Asadi, Grace Pham, Jennifer Nguyen** and **Duc Huynh** was announced as the winner of the AMCP Chapter's Pharmacy & Therapeutics Competition, and will represent the college in the national competition at the AMCP 2019 Managed Care & Specialty Pharmacy Meeting March 25-28 in San Diego.

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The UHCOP Chapter of the American Association of Pharmacists-Academy of Student Pharmacists organized a "Heart Hustle 5K" at the UH Campus, raising \$2,600 for the American Heart Association and providing wellness screenings and cardiovascular health education to participants and supporters.

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Co-hosted by the UHCOP and Texas Southern University chapters of the Student Society of Health-System Pharmacists, the 14th Annual Residency Mentoring Social brought 80 students and 65 residency program representatives together Jan. 31 at UH. Texas Society of Health-System Pharmacists President-elect Designee **Sarah Lake Wallace**, Pharm.D., newly promoted director of Pharmacy at Memorial

Hermann TIRR, presented the keynote address. Other guests included UHCOP Dean Lamar Pritchard, Ph.D., R.Ph., TSU College of Pharmacy & Health Sciences Interim Dean Shirlette Glover Milton, Ph.D., R.Ph., and Gulf Coast SHP President Joseph Rogers, Pharm.D., M.S.

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Pharm.D. candidate **Sara Mirjamali** won her second consecutive UHCOP Patient Counseling Competition Feb. 6 from a field of more than 70 fellow student competitors and will return to the national competition at the American Pharmacists Association-Academy of Student Pharmacists 2019 Annual Meeting & Exposition March 22-25 in Seattle.

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The team of **Hafeez Adewusi** and **Jessie Ho** finished third place in the Clinical Skills Competition at the Student National Pharmaceutical Association Regions III, IV & V Conference Feb. 8-10 in Sandusky, Ohio.

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The UHCOP Chapter of the National Community Pharmacists Association hosted its 9th Annual Meet & Greet Feb. 4 to connect students with independent community pharmacists.

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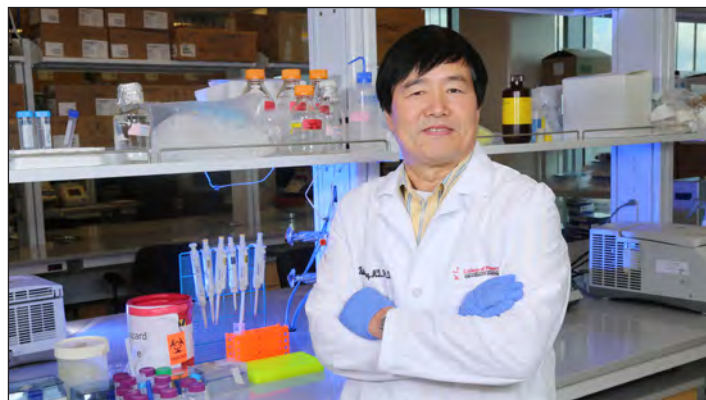
Pharm.D. student **Alyza King** has received a travel award from the Academy of Managed Care Pharmacy's Southwest Chapter to attend the AMCP 2019 Managed Care & Specialty Pharmacy Meeting.

NATIONAL ACADEMY OF INVENTORS TO INDUCT ZHANG AS 2018 FELLOW

Ruiwen Zhang, M.D., Ph.D., UHCOP Robert L. Boblitt Endowed Professor in Drug Discovery, will be inducted as a Fellow of the National Academy of Inventors at the NAI 8th Annual Meeting at Space Center Houston in April.

With more than 30 years of experience, Zhang, a board-certified toxicologist and Fellow of the American Association for the Advancement of Science, has been recognized as a leader in drug discovery and development, especially in cancer prevention and treatment.

Zhang has made major contributions to the discovery of pharmacogenetic/pharmacogenomic syndrome of dihydropyrimidine dehydrogenase (DPD), the rate-limiting enzyme in 5-fluorouracil (5-FU), one of most used anticancer agents in the world. He is the first to discover and develop new antisense RNA-DNA oligonucleotides for HIV, oncogenes, and Toll-like Receptor immunomodulators as well as a new approach to oral RNA/DNA oligonucleotides therapeutics.



Zhang has made significant contributions to fundamental understanding of the tumor suppressor p53, the most important and most-studied tumor suppressor, and MDM2, one of the major oncogenes and a p53 negative regulator.

Zhang is among the first proposing MDM2 as a molecular target for cancer prevention and therapy. His lab has discovered six classes of MDM2 inhibitors, including DNA-RNA oligonucleotides, natural products and synthetic small molecule compounds.

Rajender R. Aparasu, Ph.D., FAPhA, professor, has received a \$557,500 grant from Incyte Corp. for the project, "Oncological Treatment Patterns and Clinical Outcomes in Real-World Settings." Aparasu also has been appointed to the Scientific Advisory Board of the American Society of Pharmacovigilance. In addition, Aparasu will travel to Jakarta, Indonesia, in August on a six-week assignment for the Fulbright Scholars Program to share best practices in faculty and curriculum development and academia-based research with the Atma Jaya Catholic University.

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Gregory D. Cuny, Ph.D., associate professor, has received a \$172,890 subcontract award from Tufts University-based National Institute on Aging project, "RIPK3 as a New Target in Age-Related Chronic and Acute Inflammation."

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Randall A. "Randy" Prince, Pharm.D., Ph.D. (Hon.), FCCP, FCP, FID-SA, professor, retired from UHCOP in January after 28 years of teaching and research service to the university and college. Prince will continue working in a research role at The University of Texas-MD Anderson Cancer Center, where has worked in research and clinical roles as an adjunct faculty member since 1996.

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Sai S. Koka, Ph.D., R.Ph., research assistant professor, has received a two-year, \$154,000 American Heart Association Institutional Research Enhancement Award (AIREA) grant for her project, "Role of Trimethylamine-N-Oxide (TMAO) in endothelial and vascular injury."

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Claire Mach, Pharm.D., clinical assistant professor, has been recognized as a Board Certified Oncology Pharmacist by the Board of Pharmacy Specialties.

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Vincent H. Tam, Pharm.D., BCPS (AQ-ID), professor, coauthored the newly published "International Consensus Guidelines for the Optimal Use of the Polymyxins" in the February 2 issue of *Pharmacotherapy*. The new guidelines are endorsed by American College of Clinical Pharmacy, European Society of Clinical Microbiology and Infectious Diseases, Infectious Diseases Society of America, International Society for Anti-infective Pharmacology, Society of Critical Care Medicine and Society of Infectious Diseases Pharmacists.

Tam, fellow UHCOP faculty member **Diana S-L. Chow**, Ph.D., FNAI, and UHCOP alumna **Jie Gohlke**, Ph.D., were recently issued a U.S. Patent (10,092,515) for their invention, "Liposomal Formulations of Polymyxin B and Uses Thereof." The new award is a continuation of their original patent (USPTO 9820940) approved in November 2017.

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Academic Pharmacy Fellows **Parna Haghparast**, Pharm.D., and **Tyler M. Kiles**, Pharm.D., respectively earned the Board Certified Pharmacotherapy Specialist credential from the Board of Pharmacy Specialties and the Board Certified-Advanced Diabetes Management credential from the American Association of Diabetes Educators.

- Small molecule inhibitors reveal an indispensable scaffolding role of RIPK2 in NOD2 signaling. Hrdinka M, Schlicher L, Dai B, Pinkas DM, Bufton JC, Picaud S, Ward JA, Rogers C, **Suebsuwong C, Nikhar S, Cuny GD**, Huber KV, Filippakopoulos P, Bullock AN, Degterev A, Gyrð-Hansen M. *EMBO J*. 2018 Sep 3;37(17). pii: e99372. doi: 10.15252/embj.201899372. Epub 2018 Jul 19. PMID: 30026309
- Discovery of 3-(4-sulfamoylnaphthyl)pyrazolo[1,5-a]pyrimidines as potent and selective ALK2 inhibitors. Jiang JK, Huang X, Shamim K, Patel PR, Lee A, Wang AQ, Nguyen K, Tawa G, **Cuny GD**, Yu PB, Zheng W, Xu X, Sanderson P, Huang W. *Bioorg Med Chem Lett*. 2018 Nov 1;28(20):3356-3362. doi: 10.1016/j.bmcl.2018.09.006. Epub 2018 Sep 6. PMID: 30227946
- Epigenetic Silencing of THY1 Tracks the Acquisition of the Notch1-EGFR Signaling in a Xenograft Model of CD44⁺/CD24^{low}/CD90⁺ Myoepithelial Cells. Montanari M, Carbone MR, Coppola L, Giuliano M, Arpino G, Lauria R, Nardone A, Leccia F, **Trivedi MV**, Garbi C, Bianco R, Avvedimento EV, De Placido S, Veneziani BM. *Mol Cancer Res*. 2019 Feb;17(2):628-641. doi: 10.1158/1541-7786.MCR-17-0324. Epub 2018 Sep 21. PMID: 30242055
- Environmental transmission of *Clostridioides difficile* ribotype 027 at a long-term care facility; an outbreak investigation guided by whole genome sequencing. **Endres BT, Dotson KM, Poblete K, McPherson J**, Lancaster C, **Bassères E**, Memariani A, Arnold S, Tupy S, Carlsen C, Morehead B, Anyanwu S, Cook K, Begum K, **Alam MJ, Garey KW**. *Infect Control Hosp Epidemiol*. 2018 Nov;39(11):1322-1329. doi: 10.1017/ice.2018.230. Epub 2018 Sep 26. PMID: 30253813
- Simultaneous LC-MS/MS analysis of simvastatin, atorvastatin, rosuvastatin and their active metabolites for plasma samples of obese patients underwent gastric bypass surgery. **El-Zailik A**, Cheung LK, Wang Y, Sherman V, **Chow DS**. *J Pharm Biomed Anal*. 2019 Feb 5;164:258-267. doi: 10.1016/j.jpba.2018.10.045. Epub 2018 Oct 28. PMID: 30396053
- Interplay of Efflux Transporters with Glucuronidation and Its Impact on Subcellular Aglycone and Glucuronide Disposition: A Case Study with Kaempferol. Li Y, Lu L, Wang L, Qu W, Liu W, Xie Y, Zheng H, Wang Y, Qi X, **Hu M**, Zhu L, Liu Z. *Mol Pharm*. 2018 Nov 9. doi: 10.1021/acs.molpharmaceut.8b00782. [Epub ahead of print] PMID: 30376625
- Discovery of covalent enzyme inhibitors using virtual docking of covalent fragments. Chowdhury SR, Kennedy S, Zhu K, Mishra R, Chuong P, Nguyen AU, Kathman SG, **Statsyuk AV**. *Bioorg Med Chem Lett*. 2019 Jan 1;29(1):36-39. doi: 10.1016/j.bmcl.2018.11.019. Epub 2018 Nov 9. PMID: 30455147
- Outcomes of empiric aminoglycoside monotherapy for *Pseudomonas aeruginosa* bacteremia. **Phe K, Bowers DR, Babic JT, Tam VH**. *Diagn Microbiol Infect Dis*. 2018 Nov 9. pii: S0732-8893(18)30586-8. doi: 10.1016/j.diagmicrobio.2018.10.019. [Epub ahead of print] PMID: 30522794
- Effect of Exercise and Aβ Protein Infusion on Long-Term Memory-Related Signaling Molecules in Hippocampal Areas. **Alkadhi KA, Dao AT**. *Mol Neurobiol*. 2018 Nov 14. doi: 10.1007/s12035-018-1425-x. [Epub ahead of print] PMID: 30426389
- Integrin αvβ3-Targeted [64Cu]CuS Nanoparticles for PET/CT Imaging and Photothermal Ablation Therapy. **Cui L**, Xiong C, Zhou M, Shi S, **Chow DS**, Li C. *Bioconjug Chem*. 2018 Nov 15. doi: 10.1021/acs.bioconjugchem.8b00690. [Epub ahead of print] PMID: 30404438
- Contribution of p62/SQSTM1 to PDGF-BB-induced myofibroblast-like phenotypic transition in vascular smooth muscle cells lacking *Smpd1* gene. Zhang P, Guan Y, Chen J, Li X, **McConnell BK**, Zhou W, **Boini KM, Zhang Y**. *Cell Death Dis*. 2018 Nov 19;9(12):1145. doi: 10.1038/s41419-018-1197-2. PMID: 30451833
- Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. Kearney SE, Zahoránszky-Kohalmi G, Brimacombe KR, Henderson MJ, Lynch C, Zhao T, Wan KK, Itkin Z, Dillon C, Shen M, Cheff DM, Lee TD, Bougie D, Cheng K, Coussens NP, Dorjsuren D, Eastman RT, Huang R, Iannotti MJ, Karavadi S, Klump-Thomas C, Roth JS, Sakamuru S, Sun W, Titus SA, Yasgar A, Zhang YQ, Zhao J, Andrade RB, Brown MK, Burns NZ, Cha JK, Mevers EE, Clardy J, Clement JA, Crooks PA, **Cuny GD**, Ganor J, Moreno J, Morrill LA, Picazo E, Susick RB, Garg NK, Goess BC, Grossman RB, Hughes CC, Johnston JN, Jolliffe MM, Kinghorn AD, Kingston DGI, Kriche MJ, Kwon O, Maimone TJ, Majumdar S, Maloney KN, Mohamed E, Murphy BT, Nagorny P, Olson DE, Overman LE, Brown LE, Snyder JK, Porco JA Jr, Rivas F, Ross SA, Sarpong R, Sharma I, Shaw JT, Xu Z, Shen B, Shi W, Stephenson CRJ, Verano AL, Tan DS, Tang Y, Taylor RE, Thomson RJ, Vosburg DA, Wu J, Wuest WM, Zakarian A, Zhang Y, Ren T, Zuo Z, Inglese J, Michael S, Simeonov A, Zheng W, Shinn P, Jadhav A, Boxer MB, Hall MD, Xia M, Guha R, Rohde JM. *ACS Cent Sci*. 2018 Dec 26;4(12):1727-1741. doi: 10.1021/acscentsci.8b00747. Epub 2018 Dec 5. PMID: 30648156
- Identifying adherence barriers to oral endocrine therapy among breast cancer survivors. **Paranjpe R**, John G, **Trivedi M, Abughosh S**. *Breast Cancer Res Treat*. 2018 Dec 6. doi: 10.1007/s10549-018-05073-z. [Epub ahead of print] Review. PMID: 30523459
- Effectiveness of mailed letters to improve medication adherence among Medicare Advantage Plan participants with chronic conditions. Mann A, **Esse TW, Serna O**, Castel LD, **Abughosh SM**. *Patient Prefer Adherence*. 2018 Dec 20;13:37-46. doi: 10.2147/PPA.S185848. eCollection 2019. PMID: 30587942
- In Vivo Resistance to Ceftolozane/Tazobactam in *Pseudomonas aeruginosa* Arising by AmpC- and Non-AmpC-Mediated Pathways. **Skoglund E, Abodakpi H**, Rios R, Diaz L, De La Cadena E, Dinh AQ, Ardila J, Miller WR, Munita JM, Arias CA, **Tam VH, Tran TT**. *Case Rep Infect Dis*. 2018 Dec 23;2018:9095203. doi: 10.1155/2018/9095203. eCollection 2018. PMID: 30675406
- An update on polyphenol disposition via coupled metabolic pathways. Wang L, Sun R, Zhang Q, Luo Q, Zeng S, Li X, Gong X, Li Y, Lu L, **Hu M**, Liu Z. *Expert Opin Drug Metab Toxicol*. 2019 Feb;15(2):151-165. doi: 10.1080/17425255.2019.1559815. Epub 2018 Dec 24. Review. PMID: 30583703
- Breast Cancer Resistance Protein and Multidrug Resistance Protein 2 Determine the Disposition of Esculetin-7-O-Glucuronide and 4-Methylsculetin-7-O-Glucuronide. Li Y, Song W, Ou X, Luo G, Xie Y, Sun R, Wang Y, Qi X, **Hu M**, Liu Z, Zhu L. *Drug Metab Dispos*. 2019 Mar;47(3):203-214. doi: 10.1124/dmd.118.083493. Epub 2019 Jan 2. PMID: 30602435
- Estimated Clinical and Economic Impact through Use of a Novel Blood Collection Device To Reduce Blood Culture Contamination in the Emergency Department: a Cost-Benefit Analysis. **Skoglund E**, Dempsey CJ, **Chen H, Garey KW**. *J Clin Microbiol*. 2019 Jan 2;57(1). pii: e01015-18. doi: 10.1128/JCM.01015-18. Print 2019 Jan. PMID: 30355758