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THE UNIVERSITY OF
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School of Pharmacy

Interoffice Memorandum

**School of Pharmacy
Office of the Dean
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To: All School of Pharmacy and USDA personnel

From: Soumyajit Majumdar, Associate Dean for Research and Graduate Programs

Date: February 3, 2017

Publications which have appeared between July 1 and December 31, 2016

1. Abdel-Mageed, W.M., Attia, A.A., Al-Saleem, M.S., Abdel-Kader, M.S., Bolla, K., Ross, S.A., "Flavonoids from *Leucantheropsis trifurcatum* Leaves and their Cytotoxic Activity" *International Journal of Pharmacognosy and Phytochemical Research*, 2016; 8(11); 1839-1843
2. Abou-Hussein, D.R., Galal, A.M., Khan, I.A., Abdel-Sattar, E. "Commicarpiflavonol Glucosides A and B; Two New 5-Deoxyflavonol Glucosides from *Commicarpus grandifloras*" *Rec. Nat. Prod.* 11:2, 2017, 141-146
3. Allen, D.D., Bennett, C.W., Gregory, D.F., Ross L.A. "Targeting the pharmacy pipeline through strategic communication" *American Journal of Pharmaceutical Education* 2016;80(5):146.
4. Alsulays B.B., Kulkarni V., Alshehri S.M., Almutairy B.K., Ashour E.A., Morott J.T., Alshetali A.S., Park J.B., Tiwari R.V., Repka M.A. "Preparation and evaluation of enteric coated tablets of hot-melt extruded lansoprazole" *Drug Dev Ind Pharm.* 2016 Aug 21:1-8. [Epub ahead of print] PubMed PMID: 27486807.

5. Balguri S.P., Adelli G.R., Majumdar S. "Topical ophthalmic lipid nanoparticle formulations (SLN, NLC) of indomethacin for delivery to the posterior segment ocular tissues" *Eur J Pharm Biopharm.* 2016 Dec; 109:224-235. doi: 10.1016/j.ejpb.2016.10.015.
6. Barber K.E., Bell A.M., King S.T., Parham J.J., Stover K.R. "Impact of piperacillin-tazobactam shortage on meropenem use: implications for antimicrobial stewardship programs." *Braz. J. Infect. Dis.* 2016, 20(6), 631-634.
7. Barber K.E., Bell A.M., Stover K.R., Wagner J.L. "Intravenous Vancomycin Dosing in the Elderly: A Focus on Clinical Issues and Practical Application." *Drugs Aging.* 2016, 33(12), 845-854.
8. Barber K.E., Ortwine J.K., Akins, R.L. "Ceftazidime/Avibactam: Who Says You Can't Teach an Old Drug New Tricks?" *J. Pharm. Pharm. Sci.* 2016, 19(4), 448-464.
9. Bhagurkar A.M., Repka M.A., Murthy S.N. "A Novel Approach for the Development of a Nanostructured Lipid Carrier Formulation by Hot-Melt Extrusion Technology" *J Pharm Sci.* 2016 Dec 28. pii: S0022-3549(16)41941-6. doi: 10.1016/j.xphs.2016.12.015. [Epub ahead of print] PubMed PMID: 28040458.
10. Brown M.A., Davis C.S. "Group education tool: The Conversation Map® programme" *Journal of Diabetes Nursing.* July, 2016; 20(7):1-4.
11. Campana, P.R.V., Coleman, C.M., Sousa, L.P., M.M., Teixeira, M.M., Ferreira, D., and Braga, F.C., "Mansoins C-F, Oligomeric Flavonoid Glucosides Isolated from *Mansoa hirsuta* Fruits" *J. Nat. Prod.*, 2016, **79**, 2279-2286.
12. Capino, A.C., Miller, J.L., Johnson, P.N., "Clonidine for sedation and analgesia and withdrawal in critically ill infants and children." *Pharmacotherapy.* 2016, 36(12), 1290-1299.
13. Chaurasiya, N.D., Gogineni, V., Elokely, K.M., León, F., Nuñez, M.J., Klein, M.L., Walker, L.A., Cutler, S.J., Tekwani, B.L. Isolation of acacetin from *Calea urticifolia* with inhibitory properties against human monoamine oxidase-A and -B. *Journal of Natural Products* 79, 2538-2544, 2016. PMID: 27754693; DOI: 10.1021/acs.jnatprod.6b00440.
14. Chiu Y., Schliekelman P., Orlando R. and Sharp, J.S. "A Multivariate Mixture Model to Estimate the Accuracy of Glycosaminoglycan Identifications Made by MS/MS and Database Search." *Mol Cell Proteom* (in press, available online) 2016
15. Cretella D., Barber K.E., King S.T., Stover K.R. "Comparison of susceptibility patterns using commercially available susceptibility testing methods performed on prevalent *Candida* spp." *J. Med. Microbiol.* 2016, 65(12), 1445-1451.
16. Deardorff, K., Ray, W., Winterstein, E., Brown, M., McCornack, J., Cardenas-Garcia, B., Jones, K., McNutt, S., Fulkerson, S., Ferreira, D., Geny, C., Chen, X., Belofsky, G. and

- Dondji, B. "Phenolic Metabolites of *Dalea ornata* Affect Both Survival and Motility of the Human Pathogenic Hookworm *Ancylostoma ceylanicum*" *J. Nat. Prod.*, 2016, **79**, 2296-2303.
17. Dikun J.A., Crumby A.S., Shahpurwala Z., Hall J., Charrois T.L., Rosenthal M. "Understanding pharmacist success in practice: a scoping review" *J Am Pharm Assoc* 2016; 56(6): 649-655.
 18. ElSohly, M.A., Mehmedic, Z., Foster, S., Gon, C., Chandra, S., Church, J.C. "Changes in Cannabis Potency Over the Last 2 Decades (1995–2014): Analysis of Current Data in the United States" *Biological psychiatry*. 2016; 79: 613-619.
 19. El Sohafy S.M., Metwally A.M., Omar A.A., Amer M.E., Radwan M.M., Abdel-Kader M.S., ElSohly, M.A. "Cornigerin, a new sesqui-lignan from the hepatoprotective fractions of *Cynara cornigera* L." *Fitoterapia* **2016**;115:101-5.
 20. España-Serrano L and Chougule M.B. "Enhanced anticancer activity of PF-04691502, a dual PI3K/mTOR inhibitor, in combination with VEGF siRNA against non-small cell lung cancer" *Molecular Therapy - Nucleic Acids* (Nature publishing group), 2016 Nov 15;5(11):e384.
 21. Fleming L.W., Malinowski S.S., Fleming J.W., Brown M.A., Davis C.S., Hogan S. "The Impact of Participation in a Research/Writing Group on Scholarly Pursuits by Non-tenure Track Clinical Faculty" *Currents in Pharmacy Teaching and Learning* 2016; – ePub ahead of print, December 28, 2016. DOI: <http://dx.doi.org/10.1016/j.cptl.2016.12.004>
 22. Gao, H., Sun, W., Zhao, J., Wu, X., Lu, J.J., Chen, X., Xu, Q.M., Khan, I.A., Yang, S.L. "Tanshinones and diethyl blechnins with anti-inflammatory and anti-cancer activities from *Salvia miltiorrhiza* Bunge (Danshen)" *Nature - Scientific Reports* 2016, 6, 1-13.
 23. Gonzales-Arimborgo, C., Yupanqui, I., Montero, E., Alarcón-Yaquette, D.E., Zevallos-Concha, A., Caballero, L., Gasco, M., Zhao, J., Khan, I.A., Gonzales, G.F. "Acceptability, Safety, and Efficacy of Oral Administration of Extracts of Black or Red Maca (*Lepidium meyenii*) in Adult Human Subjects: A Randomized, Double-Blind, Placebo-Controlled Study" *Pharmaceuticals* 2016, 9 (3), 49
 24. Gunasekara, D. C., Zheng, M. M., Mojtahed, T., Woods, J. R., Fandy, T. E., Riofksi, M. V., Glackin, C. A., Hassan, H. E., Kirsher, J., Colby, D. A. "15-Methylene-Eburnamonine Kills Leukemic Stem Cells and Reduces Engraftment in a Humanized Bone Marrow Xenograft Mouse Model of Leukemia." *ChemMedChem* 2016, 11, 2392–2397.
 25. Haines S.T. "Best practices in ensuring the safe use of insulin pens in hospital: introduction" *Am J Health-Syst Pharm* 2016; 73 (Suppl 5): S2-3. DOI 10.2146/ajhp160415

26. Haines S.T., Haines S.L., MacLaughlin E.J., VanAmburgh J.A. "Recommendations for Evaluating Practice-Related Activities of Pharmacy Faculty: A Delphi Consensus" *Annals of Pharmacotherapy*. DOI: 10.1177/1060028016683496
27. Haines S.T., Miklich M.A., Rochester-Eyeguokan C. "Best practices for the safe use of insulin pen devices in hospitals: recommendations for an expert panel Delphi consensus" *Am J Health-Syst Pharm* 2016; 73 (suppl 5): S4-16. DOI 10.2146/ajhp160416
28. Houle S.K.D., Charrois T.L., McAlister F.A., Kolber M.R., Rosenthal M.M, Lewanczuk R., Campbell N.R.C., Tsuyuki R.T. "Pay-for-performance remuneration for pharmacist prescribers' management of hypertension: a substudy of the RxACTION trial" *Can Pharm J* 2016; 149(6): 345-351.
29. Ibrahim, S.R.M., Elkhayat, E., Mohamed, G., Fathi, S., Ross, S.A., "Fusarithioamide A, a new antimicrobial and cytotoxic benzamide derivative from the endophytic fungus *Fusarium chlamidosporium*" *Biochemical and Biophysical Research Communications*, 479 (2016), 211-216. DOI:10.1016/j.bbrc.2016.09.041
30. Ibrahim, S.R.M., Mohamed, G.A., and Ross, S. A., "Aspernolides L and M, new butyrolactones from the endophytic fungus *Aspergillus versicolor*, *Z. Naturforsch*, (2016), DOI 10.1515/znc-2016-0138
31. Ibrahim, S.R.M., Mohamed, G., Zayed, M.F., Ross, S.A., "8-hydroxyirilone-5-methyl ether and 8-hydroxyirilone, new antioxidant and α -amylase inhibitors isoflavonoids from *Iris germanica* rhizomes" *Bioorganic Chemistry*, accepted, DOI.org/10.1016/j.bioorg.2016.12.010
32. Kang, N.X., Zhu, Y.J., Zhao, J., Zhu, W.F., Liu, Y.L., Xu, Q.M., Zhuge, H.X., Khan, I.A., Yang, S.L. "Antischistosomal activity of hederacochiside C against *Schistosoma japonicum* harbored in experimentally infected animals" *Journal of Asian Natural Products Research* 2016, 7, 1-14
33. Labib, R.M., Ebada, S.S., Youssef, F.S., Ashour, M.L., Ross, S.A., "Ursolic Acid, a Natural Pentacyclic Triterpene from *Ochrosia elliptica* and Its Role in The Management of Certain Neglected Tropical Diseases" *Pharmacognosy Magazine*, (2016), vol. 12, issue 48, 319-325
34. Liu, Y., Zhao, J., Chen, Y., Li, W., Li, B., Jian, Y., Sabir, G., Cheng, S., Tuo, Q., Khan, I. A., "Polyacetylenic Oleanane-Type Triterpene Saponins from the Roots of *Panax japonicas*" *Journal of Natural Products* 2016, 79 (12), 3079-3085.
35. Lutz M.F., Haines S.T., Leach C.A., Szumita P.M. "Facilitating the safe use of insulin pens in hospitals through a mentored quality improvement program" *Am J Health-Syst Pharm* 2016; 73 (Suppl 5): S17-31. DOI 10.2146/ajhp160417
36. Mohammed N.N., Pandey P, Khan N.S., Elokely K.M., Liu H, Doerksen R.J., Repka M.A. "Clotrimazole-cyclodextrin based approach for the management and treatment of Candidiasis - A formulation and chemistry-based evaluation" *Pharm Dev Technol*. 2016 Aug;21(5):619-29. doi:10.3109/10837450.2015.1041041. PubMed PMID: 25923135; PubMed Central PMCID: PMC4967561.

37. Mostafa, A.E., Elhela, A.A., Mohammed, E.I., Cutler, S.J., Ross, S.A. "New triterpenoidal saponins from *Koelreuteria paniculata*" *Phytochemistry letters*, (2016), 17, 213-218
38. Nahar V.K., Rosenthal M., Lemon S.C., Holman D.M., Watson, M., Hillhouse J.J., Pagoto S.L. "Characteristics and practices of adults who use tanning beds in private residences" *JAMA Dermatol* 2016; 152(12): 1383-1385.
39. Oh, J, Liu, H., Park, H.B., Ferreira, D., Jeong, G.S., Hamann, M.T., Doerksen, R.J., Na, M.K. "In silico investigation of lavandulyl flavonoids for the development of potent FAS-inhibitory prototypes," *BBA (Biochimica et Biophysica Acta) General Subjects*, Volume 1861, Issue 1, Part A, 2016, Pages 3180–3188 doi: 10.1016/j.bbagen.2016.08.001
40. Pitcock J.J., Barber K. E., Theilman G.D., Riche D.M. "Implementation of Twitter and Google Voice to Simulate a Resident's Day On-call for Third-year Pharmacy Students." *Curr. Pharm. Teach. Learn.* 2016, 8, 804-810.
41. Punyamurthula N.S., Adelli G.R., Gul W, Repka M.A., ElSohly M.A., Majumdar S. "Ocular Disposition of $\Delta(8)$ -Tetrahydrocannabinol from Various Topical Ophthalmic Formulations" *AAPS PharmSciTech*. 2016 Nov 30. [Epub ahead of print] PubMed PMID: 27905004.
42. Quan K.T., Park H.S., Oh J., Park H.B., Ferreira D., Myung C.S., and Na M. "Arborinane Triterpenoids from *Rubia philippinensis* Inhibit Proliferation and Migration of Vascular Smooth Muscle Cells Induced by Platelet-Derived Growth Factor." *J. Nat. Prod.*, 2016, **79**, 2559-2569.
43. Ramachandran S., Banahan B.F., Bentley J.P., West-Strum D., and Patel A. "Factors influencing the use of second-generation antipsychotics in children with psychosis" *Journal of Managed Care and Specialty Pharmacy*. 2016; 22(8):948-957.
44. Rodriguez J, Caille O, Ferreira D, Francaux M. "Pomegranate extract prevents skeletal muscle of mice against wasting induced by acute TNF- α injection" *Mol. Nutr. Food. Res.*, 2016 Nov 2. doi: 10.1002/mnfr.201600169. [Epub ahead of print]
45. Sewell M.J., Riche D.M., Fleming J.W., Malinowski S.S., Jackson RT. "Comparison of Pharmacist and Physician Managed Annual Medicare Wellness Services" *Journal of Managed Care & Specialty Pharmacy* 2016;22(12):1412-16.DOI: <http://dx.doi.org/10.18553/jmcp.2016.22.12.1412>
46. Schrader, K.K, Cantrell C.L., Midiwo J.O., Muhammad, I. "Compounds from *Terminalli brownii* Extracts with Toxicity against the Fish Pathogenic Bacterium *Flavobacterium columnare*" *Natural Product Communication*, **11** (11), 1679-1682, 2016.
47. Shah R.M., Yang Y., Bentley J.P., and Banahan B.F. "Comparative effectiveness of coronary artery bypass grafting (CABG) surgery and percutaneous coronary intervention (PCI) in elderly patients with diabetes" *Current Medical Research & Opinion*. 2016; 32(11): 1891-1898.

48. Sowaileh, M. F., Han, C., Hazlitt, R. A., Kim, E. H., John, J. P., Colby, D. A. "Conversion of Methyl Ketones and Methyl Sulfones into α -Deutero- α,α -difluoromethyl Ketones and α -Deutero- α,α -difluoromethyl Sulfones in Three Synthetic Steps." *Tetrahedron Lett.* 2017, 58, 396–400.
49. Stover K.R., Bland C.M., Gallagher J.C. "The point of antimicrobial susceptibility testing is to inform antimicrobial prescribing" *Clin Infect Dis.* 2016 Oct 6. pii: ciw686 [Epub ahead of print]
50. Taskar P., Tatke A., Majumdar S. "Advances in the use of prodrugs for drug delivery to the eye" *Expert Opin Drug Deliv.* 2017 Jan;14(1):49-63.
51. Tyler H.L., Haron M.H., Pugh N.D., Zhang J., Jackson C.R., Pasco D.S. "Bacterial components are the major contributors to the macrophage stimulating activity exhibited by extracts of common edible mushrooms." *Food Funct.* 2016, 7, 4213-4221.
52. Wagner J.L., Kenney R.M., Vazquez J.A., Ghanem T.A., Davis S.L. "Surgical prophylaxis with gram-negative activity reduces surgical site infections after microvascular reconstruction for head and neck cancer" *Head Neck.* 2016. 38(10): 1449-1454.
53. Wang, M., Wang, Y.H., Avula, B., Radwan, M.M., Wanas, A.S., Mehmedic, Z., Antwerp, J.V., ElSohly, M.A., Khan, I.A. "Quantitative Determination of Cannabinoids in Cannabis and Cannabis Products Using Ultra-High-Performance Supercritical Fluid Chromatography and Diode Array/Mass Spectrometric Detection" *J Forensic Sci* 2016.
54. Wang, M., Wang, Y.H., Avula, B., Radwan, M.M., Wanas, A.S., van Antwerp, J., Parcher, J.F., ElSohly, M.A., Khan, I.A. "Decarboxylation Study of Acidic Cannabinoids: A Novel Approach Using Ultra-High-Performance Supercritical Fluid Chromatography/Photodiode Array-Mass Spectrometry". *Cannabis and Cannabinoids Research* Volume 1.1, 2016, DOI: 10.1089/can.2016.0020
55. Wang Y.-H., Kumaihamy M., Wang M., Smesler A., Khan I. A., Leon F., Cutler S. J., Muhammad I. "Quantitative Determination of Betaine, Choline, Acetylcholine, and 20-Hydroxyecdysone Simultaneously from *Atriplex* Species by UHPLC-UV-MS" *Natural Product Communication*, **11** (11), 1689-1692, 2016.
56. Wolff, S., Brown, G., Meals, K., Chen, J., Thornton, C., Cizdziel, J., Willett, K.L. "Mercury concentrations in fish from three major lakes in north Mississippi: Spatial and temporal trends, and human health risk assessment" *Journal of Toxicology and Environmental Health, Part A: Current Issues* **79**: 894-904. 2016.
57. Yim J., Smith J.R., Barber K.E., Hallesy J.A., Rybak M.J. "Evaluation of Pharmacodynamic Interactions Between Telavancin and Aztreonam or Piperacillin/Tazobactam Against *Pseudomonas aeruginosa*, *Escherichia coli* and Methicillin-Resistant *Staphylococcus aureus*." *Infect. Dis. Ther.* 2016,5(3), 367-77.

58. Zaki, M., Nanayakkara, D.N.P., Hetta, M.H., Jacob M., Khan S.I., Mohammed R., Ibrahim M.I., Samoylenko, V., Coleman, C.M., Fronczek, F., Ferreira, D., and Ilias, M. "Bioactive Formylated Flavonoids from *Eugenia rigida*: Isolation, Synthesis, and X-ray Crystallography" *J. Nat. Prod.*, 2016, 79, 2341-2349.
59. Zapora, E., Wolkowycki, M., Bakier, S., Zjawiony, J., "Phellinus igniarius: A Pharmacologically Active Polypore Mushroom" *Natural Products Communications* Vol. 11 No. 7, 2016
60. Zhang, J, Feng, X, Patil, H, Tiwari, R.V., Repka M.A. "Coupling 3D printing with hot-melt extrusion to produce controlled-release tablets" *Int J Pharm.* 2016 Dec 23;519(1-2):186-197. doi: 10.1016/j.ijpharm.2016.12.049. [Epub ahead of print] PubMed PMID: 28017768.
61. Zong C., Huang R., Condac E., Chiu Y., Xiao W., Li X., Lu W., Ishahara M., Wang S., Ramiah A., Stickney M., Azadi P., Amster I.J., Moremen K.W., Wang L., Sharp J.S., Boons G.J. "An Integrated Approach to Identify Heparan Sulfate Ligand Requirements of Robol" *J Am Chem Soc* 2016, 138, 13059-13067

Book Chapters:

1. ElSohly M.A., Radwan M.M., Gul W., Chandra S., Galal, A.M. *Phytochemistry of Cannabis sativa* in: A.D. Kinghorn, H. Falk and J. Kobayashi (Eds.) series "Progress in the chemistry of organic natural products", special edition on "Phytocannabinoids-Unraveling the Complex Chemistry and Pharmacology of Cannabis sativa", Springer. 2017; 103: 1-36.
2. Fasinu, P.S., Muhammad, I., Walker, L.A. Chapter 5. "Update on Advances in Plant-based Antimalarial Drug Discovery". *Antiprotozoal Drug Discovery: A Challenge That Remains.* e-Book Chapter, Norma Rivera Ed., Bentham Science Publisher, pp 106-155, 2016.
3. King S.T. Chapter 118, "Bacterial Meningitis". In: Schwinghammer TL, Koehler JM, Borchert JS, Slain D, Park SK. *Pharmacotherapy Casebook: A Patient-Focused Approach. 10th ed.* New York: McGraw-Hill Education; c2017.
4. Osman, A.G., Chittiboyina, A.G., Khan, I.A. Chapter 3. "Cytoprotective Role of Dietary Phytochemicals Against Cancer Development via Induction of Phase II and Antioxidant Enzymes" *Advances in Molecular Toxicology* Vol. 10. pp 99-138, 2017