

University of Mississippi

eGrove

Publications (2015-)

Research Grants, Publications, and U. S.
Patents

12-31-2017

Research News. Publications, 2017. Volume 2

University of Mississippi. School of Pharmacy

Soumyajit Majumdar
University of Mississippi

Follow this and additional works at: https://egrove.olemiss.edu/pharmacy_publications



Part of the [Pharmacy and Pharmaceutical Sciences Commons](#)

Recommended Citation

University of Mississippi. School of Pharmacy and Majumdar, Soumyajit, "Research News. Publications, 2017. Volume 2" (2017). *Publications (2015-)*. 6.

https://egrove.olemiss.edu/pharmacy_publications/6

This Report is brought to you for free and open access by the Research Grants, Publications, and U. S. Patents at eGrove. It has been accepted for inclusion in Publications (2015-) by an authorized administrator of eGrove. For more information, please contact egrove@olemiss.edu.



THE UNIVERSITY *of*
MISSISSIPPI
SCHOOL OF PHARMACY

**Interoffice Memorandum
School of Pharmacy
Office of the Dean
University, MS 38677-1848
Phone: (662) 915-7267**

To: All School of Pharmacy and USDA personnel

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

Date: January 29, 2018

Publications which have appeared between July 1 and December 31, 2017

1. Adelli GR, Balguri SP, Bhagav P, Raman V, Majumdar S. Diclofenac sodium ion exchange resin complex loaded melt cast films for sustained release ocular delivery. *Drug delivery*. 2017;24(1):370-379.
2. Awad HM, Abd-Alla HI, Ibrahim MA, El-Sawy ER, Abdalla MM. Flavones from Heavenly Blue as modulators of Alzheimer's amyloid-beta peptide (A β) production. *Medicinal Chemistry Research*. 2017.
3. Baker WL, DiDomenico RJ, Haines ST. Improving peer review: What authors can do. *American Journal of Health-System Pharmacy*. 2017; 74: e517-20. DOI: 10.2146/ajhp170187.

4. Balguri SP, Adelli GR, Tatke A, Janga KY, Bhagav P, Majumdar S. Melt-Cast Noninvasive Ocular Inserts for Posterior Segment Drug Delivery. *J Pharm Sci.* 2017;106(12):3515-3523.
5. Balguri SP, Adelli GR, Janga KY, Bhagav P, Majumdar S. Ocular disposition of ciprofloxacin from topical, PEGylated nanostructured lipid carriers: Effect of molecular weight and density of poly (ethylene) glycol. *Int J Pharm.* 2017;529(1-2):32-43.
6. Barber KE, Tirmizi A, Finley R, Stover KR. Dalbavancin Use for the Treatment of Methicillin-resistant *Staphylococcus aureus* Pneumonia. *Journal of Pharmacology & Pharmacotherapeutics.* 2017;8(2):77-79.
7. Barnard M, George P, Perryman ML, Wolff LA. Human papillomavirus (HPV) vaccine knowledge, attitudes, and uptake in college students: Implications from the Precaution Adoption Process Model. *PLoS One.* 2017;12(8):e0182266.
8. Bello OM, Zaki AA, Khan SI, Fasinu PS, Ali Z, Khan IA, Usman LA, Oguntoye OS. Assessment of selected medicinal plants indigenous to West Africa for antiprotozoal activity. *South African Journal of Botany.* 2017;113(Supplement C):200-211.
9. Chastain DB, Franco-Paredes C, Stover KR. Addressing Antiretroviral Therapy-Associated Drug-Drug Interactions in Patients Requiring Treatment for Opportunistic Infections in Low-Income and Resource-Limited Settings. *The Journal of Clinical Pharmacology.* 2017;57(11):1387-1399.
10. Chatterjee S, Kumar V. Quantitative Systems Pharmacology: Lessons from Fumaric acid and Herbal Remedies. *Drug Des.* 2017;06.
11. Cretella D, King S, Parham J, Stover K. Change in Meropenem Utilization Following the Implementation of a Targeted Antimicrobial Stewardship Audit and Feedback Program. *J Miss State Med Assoc.* 2017;58(5):162 - 166.
12. Dai X, Kaluz S, Jiang Y, Shi L, McKinley D, Wang Y, Wang B, Van Meir EG, Tan C. A novel small-molecule arylsulfonamide causes energetic stress and suppresses breast and lung tumor growth and metastasis. *Oncotarget.* 2017;8(59):99245-99260.
13. Dave VS, Shahin HI, Youngren-Ortiz SR, Chougule MB, Haware RV. Emerging technologies for the non-invasive characterization of physical-mechanical properties of tablets. *Int J Pharm.* 2017;532(1):299-312.

14. Desselle S, Rosenthal M, Holmes ER, Andrews B, Lui J, Raja L. Components of a Measure to Describe Organizational Culture in Academic Pharmacy. *American Journal of Pharmaceutical Education*. 2017;81(10):6022.
15. DiDomenico RJ, Baker WL, Haines ST. Improving peer review: What reviewers can do. *American Journal of Health-System Pharmacy*. 2017; 74: e521-5. DOI: 10.2146/ajhp170190.
16. Gadetskaya AV, Mohamed SM, Tarawneh AH, Mohamed NM, Ma G, Ponomarev BN, Zhusupova GE, Cantrell CL, Cutler SJ, Ross SA. Phytochemical characterization and biological activity of secondary metabolites from three *Limonium* species. *Medicinal Chemistry Research*. 2017;26(11):2743-2750.
17. Haines ST, Baker WL, DiDomenico RJ. Improving peer review: What journals can do. *American Journal of Health-System Pharmacy*. 2017; 74: e526-9. DOI: 10.2146/ajhp170188.
18. Haines SL, Summa MA, Peeters MJ, Dy-Boarman EA, Boyle JA, Clifford KM, Willson MN. Toolkit for US colleges/schools of pharmacy to prepare learners for careers in academia. *Currents in Pharmacy Teaching and Learning*. 2017;9(5):750-762.
19. Huo HX, Zhu ZX, Song YL, Shi SP, Sun J, Sun H, Zhao YF, Zheng J, Ferreira D, Zjawiony JK, Tu PF, Li J. Anti-inflammatory Dimeric 2-(2-Phenylethyl)chromones from the Resinous Wood of *Aquilaria sinensis*. *J Nat Prod*. 2017.
20. Hussain H, Green IR, Ali I, Khan IA, Ali Z, Al-Sadi AM, Ahmed I. Ursolic acid derivatives for pharmaceutical use: a patent review (2012-2016). *Expert Opinion on Therapeutic Patents*. 2017;27(9):1061-1072.
21. Ibrahim MA, El-Alfy AT, Ezel K, Radwan MO, Shilabin AG, Kochanowska-Karamyan AJ, Abd-Alla HI, Otsuka M, Hamann MT. Marine Inspired 2-(5-Halo-1H-indol-3-yl)-N,N-dimethylethanamines as Modulators of Serotonin Receptors: An Example Illustrating the Power of Bromine as Part of the Uniquely Marine Chemical Space. *Mar Drugs*. 2017;15(8).
22. Kama-Kama F, Omosa LK, Nganga J, Maina N, Osanjo G, Yaouba S, Ilias M, Midiwo J, Naessens J. Antimycoplasmal Activities of Compounds from *Solanum aculeastrum* and *Piliostigma thonningii* against Strains from the *Mycoplasma mycoides* Cluster. *Frontiers in Pharmacology*. 2017;8(920).

23. Keeling N, Rosenthal M, West-Strum D, S Patel A, Haidar C, M Hoffman J. Preemptive pharmacogenetic testing: exploring the knowledge and perspectives of US payers. *Genetics in Medicine*. 2017.
24. King ST, Barber KE, Parham JJ, Stover KR. Shifts in antimicrobial consumption and infection rates before and during a piperacillin/tazobactam shortage. *Journal of Global Antimicrobial Resistance*. 2017;11(Supplement C):111-113.
25. Kumar V, Chittiboyina A, Khan I. Dietary Polyphenols as Nutraceuticals. *Nutraceuticals Now*. 2017:26-27.
26. Labib R, Youssef F, Ashour M, Abdel-Daim M, Ross S. Chemical Composition of *Pinus roxburghii* Bark Volatile Oil and Validation of Its Anti-Inflammatory Activity Using Molecular Modelling and Bleomycin-Induced Inflammation in Albino Mice. *Molecules*. 2017;22(9):1384/1-1384/14.
27. Lan X, Deng K, Zhao J, Chen Y, Xin X, Liu Y, Khan IA, Yang S, Wang T, Xu Q. New Triterpenoid Saponins from Green Vegetable Soya Beans and Their Anti-Inflammatory Activities. *Journal of Agricultural and Food Chemistry*. 2017;65(50):11065-11072.
28. Li J, Li Z-X, Zhao J, Wang W, Zhao X-F, Xu B, Li L, Zhang L, Ren J, A Khan I, Li S-X. A Novel Tropoloisoquinoline Alkaloid, Neotatarine, from *Acorus calamus* L. *Chemistry and Biodiversity*. 2017;14.
29. Liu Y, Sharp JS, Do DH, Kahn RA, Schwalbe H, Buhr F, Prestegard JH. Mistakes in translation: Reflections on mechanism. *PLoS One*. 2017;12(6):e0180566.
30. Lowe RA, Barber KE, Wagner JL, Bell-Harlan AM, Stover KR. Ceftriaxone for the Treatment of Methicillin-susceptible *Staphylococcus aureus* Bacteremia: A Case Series. *J Pharmacol Pharmacother*. 2017;8(3):140-144.
31. Mascarenhas R, Le HV, Clevenger KD, Lehrer HJ, Ringe D, Kelleher NL, Silverman RB, Liu D. Selective Targeting by a Mechanism-Based Inactivator against Pyridoxal 5'-Phosphate-Dependent Enzymes: Mechanisms of Inactivation and Alternative Turnover. *Biochemistry*. 2017;56(37):4951-4961.
32. Milanowski DJ, Oku N, Cartner LK, Bokesch HR, Williamson RT, Sauri J, Liu Y, Blinov KA, Ding Y, Li X-C, Ferreira D, Walker LA, Khan S, Davies-Coleman MT, Kelley JA, McMahan JB, Martin GE, Gustafson KR. Unequivocal determination of caulamidines A and B: application and validation of new tools in the structure elucidation tool box. *Chemical Science*. 2018.

33. Muse H, Jenkins RL, Oliver MB, Kim S, Grantier RL, Malhotra BK, Parham JJ, Stover KR. A Case of *Ignatzschineria indica* Bacteremia following Maggot Colonization. *Case Reports in Infectious Diseases*. 2017;2017:4.
34. Nahar VK, Rosenthal M, Lemon SC, Kane K, Cheng J, Oleski JL, Li W, Hillhouse JJ, Pagoto SL. Youth access to indoor tanning salons in urban versus rural/suburban communities. *Photodermatology, Photoimmunology & Photomedicine*. 2017.
35. Orazbekov Y, Ibrahim MA, Mombekov S, Srivedavyasari R, Datkhayev U, Makhatov B, Chaurasiya N, Tekwani BL, Ross SA. Isolation and Biological Evaluation of Prenylated Flavonoids from *Maclura Pomifera*. *Evidence-Based Complementary and Alternative Medicine*. 2017. Article ID 1370368
36. Park YN, Srikantha T, Daniels KJ, Jacob MR, Agarwal AK, Li XC, Soll DR. Protocol for Identifying Natural Agents That Selectively Affect Adhesion, Thickness, Architecture, Cellular Phenotypes, Extracellular Matrix, and Human White Blood Cell Impenetrability of *Candida albicans* Biofilms. *Antimicrob Agents Chemother*. 2017;61(11).
37. Pate AN, Payakachat N, Harrell TK, Pate KA, Caldwell DJ, Franks AM. Measurement of Grit and Correlation to Student Pharmacist Academic Performance. *Am J Pharm Educ*. 2017;81(6):105.
38. Patil A, Lakhani P, Majumdar S. Current perspectives on natamycin in ocular fungal infections. *Journal of Drug Delivery Science and Technology*. 2017;41:206-212.
39. Patil A, Majumdar S. Echinocandins in antifungal pharmacotherapy. *The Journal of pharmacy and pharmacology*. 2017;69(12):1635-1660.
40. Rac H, Stover KR, Wagner JL, King ST, Warnock HD, Barber KE. Time–Kill Analysis of Ceftolozane/Tazobactam Efficacy Against Mucoïd *Pseudomonas aeruginosa* Strains from Cystic Fibrosis Patients. *Infectious Diseases and Therapy*. 2017;6(4):507-513.
41. Rosenthal M, Desselle S, Holmes E. How a more detailed understanding of culture is needed before successful educational change can be made. *Currents in Pharmacy Teaching and Learning*. 2017;9(5):741-745.
42. Satmbekova D, Srivedavyasari R, Orazbekov Y, Omarova R, Datkhayev U, Ross SA. Chemical and biological studies on *Cichorium intybus* L. *Natural Product Research*. 2017:1-5.

43. Shah RM, Holmes ER, West-Strum DS, Patel A. Community Pharmacists' Classification of Prescription Drugs under the FDA's Proposed NSURE Initiative. *Innovations in Pharmacy*. 2017;8(4).
44. Simmons C, Fisher AK, Barnard M, Allen SC. Exploring Self-Efficacy among Entry-Level and Advanced BSW Students. *Journal of Teaching in Social Work*. 2017;37(4):369-384.
45. Singh A, Agarwal A, Xu YJ. Novel Cell-Killing Mechanisms of Hydroxyurea and the Implication toward Combination Therapy for the Treatment of Fungal Infections. *Antimicrob Agents Chemother*. 2017;61(11).
46. Srivedavyasasri R, Hayes T, Ross SA. Phytochemical and biological evaluation of *Salvia apiana*. *Natural Product Research*. 2017;31(17):2058-2061.
47. Stover KR, Cleary JD. Cardiac Safety of High-dose Micafungin. *Journal of Pharmacology & Pharmacotherapeutics*. 2017;8(3):132-133.
48. Suleimen EM, Gorovoi PG, Dudkin RV, Ibataev ZA, Ross SA. Constituent Composition and Biological Activity of Essential Oil from *Stachys chinensis*. *Chemistry of Natural Compounds*. 2017;53(2): 388-389.
49. Thakur AK, Kumar V. Neurotransmitters modulating effect of *Andrographis paniculata* extract and isolated pure andrographolide in diabetic rodents. In: Annual Inaugural Golden Jubilee Conference of Indian Pharmacological Society. India; 2017. p. 31.
50. Tripathi SK, Xu T, Feng Q, Avula B, Shi X, Pan X, Mask MM, Baerson SR, Jacob MR, Ravu RR, Khan SI, Li X-C, Khan IA, Clark AM, Agarwal AK. Two plant-derived aporphinoid alkaloids exert their antifungal activity by disrupting mitochondrial iron-sulfur cluster biosynthesis. *Journal of Biological Chemistry*. 2017;292(40):16578-16593.
51. Wang X, Liu J, Pandey P, Chen J, Fronczek FR, Parnham S, Qi X, Doerksen RJ, Ferreira D, Sun H, Li S, Hamann MT. Assignment of the absolute configuration of hepatoprotective highly oxygenated triterpenoids using X-ray, ECD, NMR J-based configurational analysis and HSQC overlay experiments. *Biochim Biophys Acta*. 2017;1861(12):3089-3095.
52. White BP, Stover KR, Barber KE, Galloway RC, Sullivan DC, King ST. Mechanisms of fosfomicin resistance in carbapenem-resistant *Enterobacter* sp. *Int J Antimicrob Agents*. 2017;50(5):690-692.

53. Xie B, Sood A, Woods RJ, Sharp JS. Quantitative Protein Topography Measurements by High Resolution Hydroxyl Radical Protein Footprinting Enable Accurate Molecular Model Selection. *Sci Rep.* 2017;7(1):4552.
54. Yan P-F, Feng J, Dong S, Wang M, Khan IA, Wang Y. Production of High Levels of Chirally Pure d-2,3-Butanediol with a Newly Isolated Bacillus Strain. *ACS Sustainable Chemistry & Engineering.* 2017;5(11):11016-11023.
55. Yan Y, An Y, Wang X, Chen Y, Jacob MR, Tekwani BL, Dai L, Li X-C. Synthesis and Antimicrobial Evaluation of Fire Ant Venom Alkaloid Based 2-Methyl-6-alkyl- Δ 1,6-piperideines. *Journal of Natural Products.* 2017;80(10):2795-2798.
56. Yuan H, Zhao J, Wang M, Khan SI, Zhai C, Xu Q, Huang J, Peng C, Xiong G, Wang W, Khan IA. Benzophenone glycosides from the flower buds of *Aquilaria sinensis*. *Fitoterapia.* 2017;121(Supplement C):170-174.
57. Zaki AA, Ali Z, Wang Y-H, El-Amier YA, Khan SI, Khan IA. Cytotoxic steroidal saponins from *Panicum turgidum* Forssk. *Steroids.* 2017;125(Supplement C):14-19.

Book Selections:

1. Dey A, Chatterjee SS, Kumar V. Phyto-pharmacology of Ashwagandha as an anti-diabetic herb. In: Kaul SW, R., editor. *Science of Ashwagandha: Preventative and Therapeutic Potentials.* USA: Springer International Publishing; 2017. p. 37-68.
2. Kumar V, Veeranjanyulu A. *Herbs for Diabetes and Neurological Disorders.* Waretown, New Jersey: Apple Academic Press (CRC Press, a Taylor & Francis Group); 2017.
3. Łaska G, Sienkiewicz A, Zjawiony J, Jacob M, Khan S. Antifungal activity of the root extracts of *Pulsatilla patens* against *Candida glabrata*; 2017.