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THE UNIVERSITY *of*
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SCHOOL OF PHARMACY

Interoffice Memorandum
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To: All School of Pharmacy and USDA personnel

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

Date: April 14, 2021

Publications which have appeared between January 1 and March 31, 2021:

1. Abdelgawad MA, Al-Sanea MM, Zaki MA, Mohamed EIA, Khan SI, Tekwani BL, Chittiboyina AG, Khan IA, Al-Warhil T, Aljaeed N, Alotaibi OJ, Alkhalidi AAM, Elshemy HAH. New Benzoxazole Derivatives as Antiprotozoal Agents: In Silico Studies, Synthesis, and Biological Evaluation. *Journal of Chemistry*. 2021;2021:e6631868. [doi: 10.1155/2021/6631868](https://doi.org/10.1155/2021/6631868)
2. Abdelmalek EM, Ramadan MA, Darwish FM, Assaf MH, Mohamed NM, Ross SA. Callistemon genus- a review on phytochemistry and biological activities. *Medicinal Chemistry Research*. 2021. [doi: 10.1007/s00044-021-02703-y](https://doi.org/10.1007/s00044-021-02703-y)
3. Abdelmalek EM, Zulfiqar F, Albadry MA, Khan SI, Meepagala KM, Ramadan MA, Darwish FM, Assaf MH, Ross SA. In silico and in vitro studies of isolated constituents from Callistemon citrinus leaves: Anti-microbial potential and inhibition of iNOS activity. *Phytochemistry*. 2021;186:112745. [doi: 10.1016/j.phytochem.2021.112745](https://doi.org/10.1016/j.phytochem.2021.112745)

4. Aderibigbe AO, Pandey P, Doerksen RJ. Negative allosteric modulators of cannabinoid receptor 1: Ternary complexes including CB1, orthosteric CP55940 and allosteric ORG27569. *J Biomol Struct Dyn*. 2021;1-19. [doi: 10.1080/07391102.2021.1873187](https://doi.org/10.1080/07391102.2021.1873187)
5. Albataineh H, Duke M, Misra SK, Sharp JS, Stevens DC. Identification of a solo acylhomoserine lactone synthase from the myxobacterium *Archangium gephyra*. *Sci Rep*. 2021;11(1):3018. [doi: 10.1038/s41598-021-82480-1](https://doi.org/10.1038/s41598-021-82480-1)
6. Ali Z, Hawwal M, Avula B, Chittiboyina AG, Li J, Wu C, Khan IA. Phenoxchomone and 4-hydroxyisoflavans from the roots of *Glycyrrhiza uralensis*. *Nat Prod Res*. 2021;1-8. [doi: 10.1080/14786419.2021.189266833648400](https://doi.org/10.1080/14786419.2021.189266833648400)
7. Alshammari MD, Kucheryavy PV, Ashpole NM, Colby DA. Synthesis, biological evaluation, and NMR studies of 3-fluorinated derivatives of 3',4',5'-trihydroxyflavone and 3',4',5'-trimethoxyflavone. *Bioorg Med Chem Lett*. 2021;32:127720. [doi: 10.1016/j.bmcl.2020.127720](https://doi.org/10.1016/j.bmcl.2020.127720)
8. Alshetaili A, Almutairy BK, Alshehri SM, Repka MA. Development and Characterization of Sustained-Released Donepezil Hydrochloride Solid Dispersions Using Hot Melt Extrusion Technology. *Pharmaceutics*. 2021;13(2):213. [doi: 10.3390/pharmaceutics13020213](https://doi.org/10.3390/pharmaceutics13020213)
9. Avula B, Bae JY, Zhao J, Wang YH, Wang M, Zhang Z, Ali Z, Chittiboyina AG, Khan IA. Quantitative determination and characterization of polyphenols from *Cissus quadrangularis* L. and dietary supplements using UHPLC-PDA-MS, LC-QToF and HPTLC. *J Pharm Biomed Anal*. 2021;199. [doi: 10.1016/j.jpba.2021.114036](https://doi.org/10.1016/j.jpba.2021.114036)
10. Avula B, Parveen I, Zhao J, Wang M, Techen N, Wang YH, Riaz M, Bae JY, Shami AA, Chittiboyina AG, Khan IA, Sharp JS. A Comprehensive Workflow for the Analysis of Bio-Macromolecular Supplements: Case Study of 20 Whey Protein Products. *J Diet Suppl*. 2021;0(0):1-19. [doi: 10.1080/19390211.2021.1897724](https://doi.org/10.1080/19390211.2021.1897724)
11. Avula B, Sagi S, Masoodi MH, Bae J-Y, Wali AF, Khan IA. Quantification and Characterization of Phenolic Compounds from Northern Indian Propolis Extracts and Dietary Supplements. *J AOAC Int*. 2020;103(5):1378-93. [doi: 10.1093/jaoacint/qsaa032](https://doi.org/10.1093/jaoacint/qsaa032)
12. Balachandran P, Elsohly M, Hill KP. Cannabidiol Interactions with Medications, Illicit Substances, and Alcohol: a Comprehensive Review. *J Gen Intern Med*. 2021. [doi: 10.1007/s11606-020-06504-8](https://doi.org/10.1007/s11606-020-06504-8)

13. Balachandran P, Ibrahim MA, Zhang J, Wang M, Pasco DS, Muhammad I. Crosstalk of Cancer Signaling Pathways by Cyclic Hexapeptides and Anthraquinones from *Rubia cordifolia*. *Molecules*. 2021;26(3):735. doi: [10.3390/molecules26030735](https://doi.org/10.3390/molecules26030735)
14. Bandari S, Nyavanandi D, Dumpa N, Repka MA. Coupling hot melt extrusion and fused deposition modeling: Critical properties for successful performance. *Advanced Drug Delivery Reviews*. 2021;172:52-63. doi: [10.1016/j.addr.2021.02.006](https://doi.org/10.1016/j.addr.2021.02.006)
15. Burr SD, Stewart JA Jr. Rap1a Overlaps the AGE/RAGE Signaling Cascade to Alter Expression of α -SMA, p-NF- κ B, and p-PKC- ζ in Cardiac Fibroblasts Isolated from Type 2 Diabetic Mice. *Cells*. 2021;10(3):557. doi: [10.3390/cells10030557](https://doi.org/10.3390/cells10030557)
16. Chandrasiri I, Abebe DG, Yaddehige ML, Williams JSD, Zia MF, Dorris A, Barker A, Simms BL, Parker A, Vinjamuri BP, Le N, Gayton JN, Chougule MB, Hammer NI, Flynt A, Delcamp JH, Watkins DL. Self-assembling PCL-PAMAM linear dendritic block copolymers (LDBC)s for bio imaging and photo therapeutic applications. *ACS Applied Bio Materials*. 2020; 3(9): 5664-5677. doi: [10.1021/acsabm.0c00432](https://doi.org/10.1021/acsabm.0c00432)
17. Coward KB, Cafer A, Rosenthal M, Allen D, Paltanwale Q. An exploration of key barriers to healthcare providers' use of food prescription (FRx) interventions in the rural South. *Public Health Nutr*. 2021;24(5):1095-103. doi: [10.1017/S1368980020005376](https://doi.org/10.1017/S1368980020005376)
18. D'Almeida W, Monteiro LM, Raman V, Rehman JU, Paludo KS, de Noronha Sales Maia BHL, Casapula I, Khan IA, Farago PV, Budel JM. Microscopy of *Eugenia involucrata*, Chemical Composition and Biological Activities of the Volatile Oil. *Revista Brasileira de Farmacognosia*. 2021. doi: [10.1007/s43450-020-00123-4](https://doi.org/10.1007/s43450-020-00123-4)
19. Dao HM, Pillai AR, Thakkar R, Parajuli S, Urena-Benavides E, Jo S. Near infrared light-induced disassembly of polymeric micelles based on methylene blue conjugated polyethylene glycol. *Journal of Applied Polymer Science*. 2021;138(2):49665. doi: [10.1002/app.49665](https://doi.org/10.1002/app.49665)
20. dos Santos VLP, Rodrigues ICG, Berté R, Raman V, Messias-Reason IJ, Budel JM. Review of Piper species growing in the Brazilian State of Paraná with emphasize on the vegetative anatomy and biological activities. *Botanical Review*. 2021;87(1):23-54. doi: [10.1007/s12229-020-09239-7](https://doi.org/10.1007/s12229-020-09239-7)

21. Dumpa N, Butreddy A, Wang H, Komanduri N, Bandari S, Repka MA. 3D printing in personalized drug delivery: An overview of hot-melt extrusion-based fused deposition modeling. *International Journal of Pharmaceutics*. 2021;600. [doi: 10.1016/j.ijpharm.2021.120501](https://doi.org/10.1016/j.ijpharm.2021.120501)
22. ElSohly MA, Chandra S, Radwan M, Gon C, Church JC. A Comprehensive Review of Cannabis Potency in the USA in the Last Decade. *Biol Psychiatry Cogn Neurosci Neuroimaging*. 2021 Jan 25:S2451-9022(21)00022-7. [doi: 10.1016/j.bpsc.2020.12.016](https://doi.org/10.1016/j.bpsc.2020.12.016)
23. Foudah AI, Shakeel F, Alqarni MH, Ross SA, Salkini MA, Alam P. Simultaneous Estimation of Cinnamaldehyde and Eugenol in Essential Oils and Traditional and Ultrasound-Assisted Extracts of Different Species of Cinnamon Using a Sustainable/Green HPTLC Technique. *Molecules*. 2021; 26(7):2054. [doi: 10.3390/molecules26072054](https://doi.org/10.3390/molecules26072054)
24. Gatwood J, Chiu CY, Shuvo S, Ramachandran S, Jadhav S, Hohmeier KC, Hagemann T. Role of social determinants of health in pneumococcal vaccination among high-risk adults. *Vaccine*. 2021 Apr 1;39(14):1951-1962. [doi: 10.1016/j.vaccine.2021.02.061](https://doi.org/10.1016/j.vaccine.2021.02.061)
25. Giri BR, Kwon J, Vo AQ, Bhagurkar AM, Bandari S, Kim DW. Hot-Melt Extruded Amorphous Solid Dispersion for Solubility, Stability, and Bioavailability Enhancement of Telmisartan. *Pharmaceuticals (Basel)*. 2021;14(1). [doi: 10.3390/ph14010073](https://doi.org/10.3390/ph14010073)
26. Gomez CR, Espinoza I, Faruque FS, Hasan MM, Rahman KM, Walker LA, Muhammad I. Therapeutic Intervention of COVID-19 by Natural Products: A Population-Specific Survey Directed Approach. *Molecules*. 2021;26(4):1191. [doi: 10.3390/molecules26041191](https://doi.org/10.3390/molecules26041191)
27. Gordy XZ, Sparkmon W, Imeri H, Notebaert A, Barnard M, Compretta C, Dehon E, Taylor J, Stray S, Sullivan D, Rockhold RW. Science Teaching Excites Medical Interest: A Qualitative Inquiry of Science Education during the 2020 COVID-19 Pandemic. *Education Sciences*. 2021; 11(4):148. [doi: 10.3390/educsci11040148](https://doi.org/10.3390/educsci11040148)
28. Han SW, Wang XJ, Cui BS, Sun H, Chen H, Ferreira D, Li S, Hamann MT. Hepatoprotective Glucosyloxybenzyl 2-Hydroxy-2-isobutylsuccinates from *Pleione yunnanensis*. *J Nat Prod*. 2021;84(3):738-49. [doi: 10.1021/acs.jnatprod.0c01117](https://doi.org/10.1021/acs.jnatprod.0c01117)
29. Hawkins BK, Wingler MJB, Cretella DA, Barber KE, Stover KR, Wagner JL. An evaluation of antipseudomonal dosing on the incidence of treatment failure. *SAGE Open Med*. 2021;9:20503121211000927. [doi: 10.1177/20503121211000927](https://doi.org/10.1177/20503121211000927)

30. Hayat K, Jamshed S, Rosenthal M, Haq NU, Chang J, Rasool MF, Malik UR, Rehman AU, Khan KM, Fang Y. Understanding of Pharmacy Students towards Antibiotic Use, Antibiotic Resistance and Antibiotic Stewardship Programs: A Cross-Sectional Study from Punjab, Pakistan. *Antibiotics*. 2021;10(1):66. doi: [10.3390/antibiotics10010066](https://doi.org/10.3390/antibiotics10010066)
31. Hayes CA, Valcarcel-Ares MN, Ashpole NM. Preclinical and clinical evidence of IGF-1 as a prognostic marker and acute intervention with ischemic stroke. *J Cereb Blood Flow Metab*. 2021:271678X211000894. doi: [10.1177/0271678X211000894](https://doi.org/10.1177/0271678X211000894)
32. Hearn EB, Sherman JJ. Injection-Site Nodules Associated With Once-Weekly Subcutaneous Administration of Semaglutide. *Diabetes Spectr*. 2021;34(1):73-75. doi: [10.2337/ds20-0033](https://doi.org/10.2337/ds20-0033)
33. Hossain MI, Thomas AG, Mahdi F, Adam AT, Akins NS, Woodard MM, Paris JJ, Slusher BS, Le HV. An efficient synthetic route to L- γ -methyleneglutamine and its amide derivatives, and their selective anticancer activity. *RSC Advances*. 2021;11(13):7115-28. doi: [10.1039/D0RA08249J](https://doi.org/10.1039/D0RA08249J)
34. Ibrahim RS, Mahrous RSR, Abu El-Khair RM, Ross SA, Omar AA, Fathy HM. Biologically guided isolation and ADMET profile of new factor Xa inhibitors from *Glycyrrhiza glabra* roots using in vitro and in silico approaches. *RSC Advances*. 2021;11(17):9995-10001. doi: [10.1039/d1ra00359c](https://doi.org/10.1039/d1ra00359c)
35. Imeri H, Jadhav S, Barnard M, Rosenthal M. Mapping the impact of the COVID-19 pandemic on pharmacy graduate students' wellness. *Research in Social and Administrative Pharmacy*. 2021. doi: [10.1016/j.sapharm.2021.02.016](https://doi.org/10.1016/j.sapharm.2021.02.016)
36. Kang N, Zhao J, Zhou Y, Peng Z, Liu Y, Xu Q, Khan IA, Yang S. New Dihydropyrrole-Substituted Epicatechins from Sun-Dried Dongting-Biluochun Tea Leaves and Their Inhibitory Activities on Acetylcholinesterase. *ACS Food Science & Technology* 2021;1(3):310-315. doi: [10.1021/acsfoodscitech.1c00057](https://doi.org/10.1021/acsfoodscitech.1c00057)
37. Korgaonkar S, Yang Y, Iii BB, Bentley JP. Comparative effectiveness and safety of non-vitamin-K antagonist oral anticoagulants and warfarin in older adults with atrial fibrillation and diabetes. *Current Medical Research and Opinion*. 2021;37(3):343-56. doi: [10.1080/03007995.2020.1865748](https://doi.org/10.1080/03007995.2020.1865748)
38. Kumar Sharma P, Panda A, Parajuli S, Badani Prado RM, Kundu S, Repka MA, Ureña-Benavides E, Narasimha Murthy S. Effect of surfactant on quality and performance attributes of topical semisolids. *International Journal of Pharmaceutics*. 2021;596. doi: [10.1016/j.ijpharm.2021.120210](https://doi.org/10.1016/j.ijpharm.2021.120210)

39. Larit F, Elokely KM, Nael MA, Benyahia S, León F, Cutler SJ, Ghoneim MM. Proposed Mechanism for the Antitrypanosomal Activity of Quercetin and Myricetin Isolated from *Hypericum afrum* Lam.: Phytochemistry, In Vitro Testing and Modeling Studies. *Molecules*. 2021;26(4):1009. doi: [10.3390/molecules26041009](https://doi.org/10.3390/molecules26041009)
40. Li J, Shen R, Reddy B, Perozo E, Roux B. Mechanism of C-type inactivation in the hERG potassium channel. *Science Advances*. 2021;7(5):eabd6203. doi: [10.1126/sciadv.abd6203](https://doi.org/10.1126/sciadv.abd6203)
41. Lim PC, Ali Z, Khan IA, Khan SI, Kassim NK, Awang K, Shaari K, Ismail A. Cytotoxic constituent of *Melicope latifolia* (DC.) T. G. Hartley. *Natural Product Research*. 2021;1-9. doi: [10.1080/14786419.2021.1885031](https://doi.org/10.1080/14786419.2021.1885031)
42. Luco JFd, Recio-Balsells AI, Ghiano DG, Bortolotti A, Belardinelli JM, Liu N, Hoffmann P, Lherbet C, Tonge PJ, Tekwani B, Morbidoni HR, Labadie GR. Exploring the chemical space of 1,2,3-triazolyl triclosan analogs for discovery of new antileishmanial chemotherapeutic agents. *RSC Med Chem*. 2021;12(1):120-8. doi: [10.1039/D0MD00291G](https://doi.org/10.1039/D0MD00291G)
43. Marks WD, Paris JJ, Barbour AJ, Moon J, Carpenter VJ, McLane VD, Lark ARS, Nass SR, Zhang J, Yarotsky V, McQuiston AR, Knapp PE, Hauser KF. HIV-1 Tat and morphine differentially disrupt pyramidal cell structure and function and spatial learning in hippocampal area CA1: Continuous versus interrupted morphine exposure. *eNeuro*. 2021:ENEURO.0547-20.2021. doi: [10.1523/ENEURO.0547-20.2021](https://doi.org/10.1523/ENEURO.0547-20.2021)
44. Manzar MD, Alghadir AH, Anwer S, Alqahtani M, Salahuddin M, Addo HA, Jifar WW, Alasmee NA. Psychometric Properties of the General Anxiety Disorders-7 Scale Using Categorical Data Methods: A Study in a Sample of University Attending Ethiopian Young Adults. *Neuropsychiatric Disease and Treatment*. 2021;17:893-903. doi: [10.2147/NDT.S295912](https://doi.org/10.2147/NDT.S295912)
45. Manzar MD, Salahuddin M, Pandi-Perumal SR, Bahammam AS. Insomnia May Mediate the Relationship Between Stress and Anxiety: A Cross-Sectional Study in University Students. *Nat Sci Sleep*. 2021;13:31-8. doi: [10.2147/NSS.S278988](https://doi.org/10.2147/NSS.S278988)
46. Marques AAM, Lorençone BR, Romão PVM, Guarnier LP, Palozi RAC, Moreno KGT, Tirloni CAS, Dos Santos AC, Souza RIC, Klider LM, Lourenço ELB, Tolouei SEL, Budel JM, Khan SI, Silva DB, Gasparotto Junior A. Ethnopharmacological investigation of the cardiovascular effects of the ethanol-soluble fraction of *Aloisia polystachya* (Griseb.) Moldenke leaves in spontaneously hypertensive rats. *J Ethnopharmacol*. 2021;274. doi: [10.1016/j.jep.2021.114077](https://doi.org/10.1016/j.jep.2021.114077)

47. Nightingale G, Mohamed MR, Holmes HM, Sharma M, Ramsdale E, Lu-Yao G, Chapman A. Research priorities to address polypharmacy in older adults with cancer. *Journal of Geriatric Oncology*. 2021. [doi: 10.1016/j.jgo.2021.01.009](https://doi.org/10.1016/j.jgo.2021.01.009)
48. Panda A, Matadh VA, Suresh S, Shivakumar HN, Murthy SN. Non-dermal applications of microneedle drug delivery systems. *Drug Deliv Transl Res*. 2021 Feb 24. [doi: 10.1007/s13346-021-00922-9](https://doi.org/10.1007/s13346-021-00922-9)
49. Paris JJ, Chen X, Anderson J, Qrareya AN, Mahdi F, Du F, McLaughlin JP, Kaufman MJ. In vivo proton magnetic resonance spectroscopy detection of metabolite abnormalities in aged Tat-transgenic mouse brain. *Geroscience*. 2021. [doi: 10.1007/s11357-021-00354-w](https://doi.org/10.1007/s11357-021-00354-w)
50. Patel N, Ji N, Wang Y, Li X, Langley N, Tan C. Subcutaneous Delivery of Albumin: Impact of Thermosensitive Hydrogels. *AAPS PharmSciTech*. 2021;22(3):120. [doi: 10.1208/s12249-021-01982-3](https://doi.org/10.1208/s12249-021-01982-3)
51. Paudel P, Kim DH, Jeon J, Park SE, Seong SH, Jung HA, Choi JS. Neuroprotective effect of aurantio-obtusin, a putative vasopressin v1a receptor antagonist, on transient forebrain ischemia mice model. *Int J Mol Sci*. 2021;22(7). [doi: 10.3390/ijms22073335](https://doi.org/10.3390/ijms22073335)
52. Pour PM, Yegdaneh A, Aghaei M, Ali Z, Khan IA, Ghanadian M. Novel 16,17-epoxy-23-methylergostane derivative from *Sinularia variabilis*, a soft coral from the Persian Gulf, with apoptotic activities against breast cancer cell lines. *Natural Product Research*. 2021;0(0):1-10. [doi: 10.1080/14786419.2021.1887178](https://doi.org/10.1080/14786419.2021.1887178)
53. Ramachandran S, Gravlee E, Pate AN. Pharmacists need to participate and pay closer attention to the Medicare for All discussion. *J Am Pharm Assoc (2003)*. 2021:S1544-3191(21)00089-3. [doi: 10.1016/j.japh.2021.02.017](https://doi.org/10.1016/j.japh.2021.02.017)
54. Rangappa S, Shankar VK, Jo S, Repka MA, Murthy SN. Chemotherapeutic Agent-Induced Vulvodynia, an Experimental Model. *AAPS PharmSciTech*. 2021;22(3):95. [doi: 10.1208/s12249-021-01969-0](https://doi.org/10.1208/s12249-021-01969-0)
55. Richbart SD, Friedman JR, Brown KC, Gadepalli RS, Miles SL, Rimoldi JM, Rankin GO, Valentovic MA, Tirona MT, Finch PT, Hess JA, Dasgupta P. Nonpungent N-AVAM Capsaicin Analogues and Cancer Therapy. *J Med Chem*. 2021;64(3):1346-61. [doi: 10.1021/acs.jmedchem.0c01679](https://doi.org/10.1021/acs.jmedchem.0c01679)
56. Sarabu S, Kallakunta VR, Butreddy A, Janga KY, Ajjarapu S, Bandari S, Zhang F, Murthy SN, Repka MA. A One-Step Twin-Screw Melt Granulation with Gelucire 48/16 and Surface Adsorbent to Improve the Solubility of Poorly Soluble Drugs: Effect of Formulation Variables on Dissolution and Stability. *AAPS PharmSciTech*. 2021;22(3):79. [doi: 10.1208/s12249-021-01945-8](https://doi.org/10.1208/s12249-021-01945-8)

57. Sardhara R, Chaturvedi K, Shah HS, Vinjamuri BP, Al-Achi A, Morris KR, Haware RV. Predictive Performance Comparison of Computed Linear and Quadratic Multivariate Models for In-Situ UV Fiber Optics Tablet Dissolution Testing. *European Journal of Pharmaceutical Sciences*. 2021;161. doi: [10.1016/j.ejps.2021.105806](https://doi.org/10.1016/j.ejps.2021.105806)
58. Shadambikar G, Marathe S, Ji N, Almutairi M, Bandari S, Zhang F, Chougule M, Repka M. Formulation development of itraconazole PEGylated nano-lipid carriers for pulmonary aspergillosis using hot-melt extrusion technology. *Int J Pharm X*. 2021;3. doi: [10.1016/j.ijpx.2021.100074](https://doi.org/10.1016/j.ijpx.2021.100074)
59. Shadambikar G, Marathe S, Patil A, Joshi R, Bandari S, Majumdar S, Repka M. Novel Application of Hot Melt Extrusion Technology for Preparation and Evaluation of Valacyclovir Hydrochloride Ocular Inserts. *AAPS PharmSciTech*. 2021;22(1):48. doi: [10.1208/s12249-020-01916-5](https://doi.org/10.1208/s12249-020-01916-5)
60. Shahin H, Vinjamuri BP, Mahmoud AA, Mansour SM, Chougule MB, Chablani L. Formulation and optimization of sildenafil citrate-loaded PLGA large porous microparticles using spray freeze-drying technique: A factorial design and in-vivo pharmacokinetic study. *International Journal of Pharmaceutics*. 2021;597. doi: [10.1016/j.ijpharm.2021.120320](https://doi.org/10.1016/j.ijpharm.2021.120320)
61. Shankar VK, Police A, Pandey P, Cuny ZG, Repka MA, Doerksen RJ, Murthy SN. Optimization of sulfobutyl-ether- β -cyclodextrin levels in oral formulations to enhance progesterone bioavailability. *International Journal of Pharmaceutics*. 2021;596. doi: [10.1016/j.ijpharm.2021.120212](https://doi.org/10.1016/j.ijpharm.2021.120212)
62. Sharma VK, Srivedavyasari R, Ali Z, Zjawiony JK, Ross SA, Ferreira D, Ashpole N, Khan IA. Rotenoids and Other Specialized Metabolites from the Roots of *Mirabilis multiflora*: Opioid and Cannabinoid Receptor Radioligand Binding Affinities. *J Nat Prod*. 2021 Mar 18. doi: [10.1021/acs.jnatprod.0c00939](https://doi.org/10.1021/acs.jnatprod.0c00939)
63. Shaukat U, Ahemad S, Wang M, Khan SI, Ali Z, Tousif MI, Abdallah HH, Khan IA, Saleem M, Mahomoodally MF. Phenolic contents, chemical profiling, in silico and in vitro anti-inflammatory and anticancer properties of *Alnus nitida* (Spach) Endl. *South African Journal of Botany*. 2021;138:148-55. doi: [10.1016/j.sajb.2020.12.010](https://doi.org/10.1016/j.sajb.2020.12.010)
64. Sheehan SA, Hamilton KL, Retzbach EP, Balachandran P, Krishnan H, Leone P, Lopez-Gonzalez M, Suryavanshi S, Kumar P, Russo R, Goldberg GS. Evidence that Maackia amurensis seed lectin (MASL) exerts pleiotropic actions on oral squamous cells with potential to inhibit SARS-CoV-2 infection and COVID-19 disease progression. *Exp Cell Res*. 2021;403(1):112594. doi: [10.1016/j.yexcr.2021.112594](https://doi.org/10.1016/j.yexcr.2021.112594)

65. Shuvo S, Hagemann T, Hohmeier K, Chiu C-Y, Ramachandran S, Gatwood J. The role of social determinants in timely herpes zoster vaccination among older American adults. *Human Vaccines & Immunotherapeutics*. 2021;0(0):1-7. doi: [10.1080/21645515.2020.1856598](https://doi.org/10.1080/21645515.2020.1856598)
66. Sulochana SP, Trivedi RK, Srinivas NR, Mullangi R. A concise review of bioanalytical methods of small molecule immuno-oncology drugs in cancer therapy. *Biomedical Chromatography*. 2021;35(1):e4996. doi: [10.1002/bmc.4996](https://doi.org/10.1002/bmc.4996)
67. Tarantini S, Balasubramanian P, Yabluchanskiy A, Ashpole NM, Logan S, Kiss T, Ungvari A, Nyúl-Tóth Á, Schwartzman ML, Benyo Z, Sonntag WE, Csiszar A, Ungvari Z. IGF1R signaling regulates astrocyte-mediated neurovascular coupling in mice: implications for brain aging. *Geroscience*. 2021 Mar 6. doi: [10.1007/s11357-021-00350-0](https://doi.org/10.1007/s11357-021-00350-0)
68. Tian H, Li XP, Zhao J, Gao HW, Xu QM, Wang JW. Biotransformation of artemisinic acid to bioactive derivatives by endophytic *Penicillium oxalicum* B4 from *Artemisia annua* L. *Phytochemistry*. 2021;185:112682. doi: [10.1016/j.phytochem.2021.112682](https://doi.org/10.1016/j.phytochem.2021.112682)
69. Tolouei S, da Silva GN, Curi TZ, Passoni MT, Ribeiro D, Meldola HG, Grechi N, Hey GS, Souza R, Dos Santos AC, Beltrame OC, Dalsenter PR, Martino-Andrade AJ, Gasparotto Junior A. Effects of *Talinum paniculatum* (Jacq.) Gaertn. leaf extract on general toxicity and pubertal development of rats. *Hum Exp Toxicol*. 2021;40(1):124-35. doi: [10.1177/0960327120945756](https://doi.org/10.1177/0960327120945756)
70. Toth J, Rosenthal M, Pate K. Use of Adaptive Learning Technology to Promote Self-Directed Learning in a Pharmacists' Patient Care Process Course. *American Journal of Pharmaceutical Education*. 2021;85(1). doi: [10.5688/ajpe7971](https://doi.org/10.5688/ajpe7971)
71. Vinjamuri BP, Papachrisanthou K, Haware RV, Chougule MB. Gelatin solution pH and incubation time influences the size of the nanoparticles engineered by desolvation. *Journal of Drug Delivery Science and Technology*. 2021;63. doi: [10.1016/j.jddst.2021.102423](https://doi.org/10.1016/j.jddst.2021.102423)
72. Wagner JL, Stover KR, Bell AM, Barber KE. Risk factors for development of initial *Clostridioides difficile* infection. *J Glob Antimicrob Resist*. 2021;25:18-22. doi: [10.1016/j.jgar.2021.02.012](https://doi.org/10.1016/j.jgar.2021.02.012)
73. Wang M, Zhao J, Ali Z, Avonto C, Khan IA. A novel approach for lavender essential oil authentication and quality assessment. *J Pharm Biomed Anal*. 2021;199. doi: [10.1016/j.jpba.2021.114050](https://doi.org/10.1016/j.jpba.2021.114050)

74. Weber DJ, Talbot TR, Weinmann A, Mathew T, Heil E, Stenehjem E, Duncan R, Gross A, Stinchfield P, Baliga C, Wagner J, Schaffner W, Echevarria K, Drees M. Policy statement from the Society for Healthcare Epidemiology of America (SHEA): Only medical contraindications should be accepted as a reason for not receiving all routine immunizations as recommended by the Centers for Disease Control and Prevention. *Infect Control Hosp Epidemiol.* 2021;42(1):1-5. [doi: 10.1017/ice.2020.342](https://doi.org/10.1017/ice.2020.342)
75. Willett KL, Showalter SE, Janasie CM, Rhymes JP, Dickson K, Green JJ. An Interdisciplinary Approach to Community-Engaged Research Surrounding Lead in Drinking Water in the Mississippi Delta. *Journal of Rural Social Sciences.* 2021;36(1):3.
76. Winders HR, Al-Hasan MN, Jones BM, Childress DT, Stover KR, Britt BB, Chahine EB, Lau S, Andrews PD, Junco SJ, Wrenn RH, Crane BJ, Wong JR, Seddon MM, Bland CM, MacVane SH, Gibson GM, Bookstaver PB. Novel method of calculating adjusted antibiotic use by microbiological burden. *Infect Control Hosp Epidemiol.* 2021:1-6. [doi: 10.1017/ice.2020.1285](https://doi.org/10.1017/ice.2020.1285)
77. Wu SY, Wang WJ, Dou JH, Gong LK. Research progress on the protective effects of licorice-derived 18 β -glycyrrhetic acid against liver injury. *Acta Pharmacol Sin.* 2021;42(1):18-26. [doi: 10.1038/s41401-020-0383-9](https://doi.org/10.1038/s41401-020-0383-9)
78. Wu Y, Lu D, Jiang Y, Jin J, Liu S, Chen L, Zhang H, Zhou Y, Chen H, Nagle DG, Luan X, Zhang W. Stapled Wasp Venom-Derived Oncolytic Peptides with Side Chains Induce Rapid Membrane Lysis and Prolonged Immune Responses in Melanoma. *J Med Chem.* 2021 Apr 12. [doi: 10.1021/acs.jmedchem.0c02237](https://doi.org/10.1021/acs.jmedchem.0c02237)
79. Young J, Bhattacharya K, Ramachandran S, Lee A, Bentley JP. Rates of genetic testing in patients prescribed drugs with pharmacogenomic information in FDA-approved labeling. *Pharmacogenomics J.* 2021. [doi: 10.1038/s41397-021-00211-1](https://doi.org/10.1038/s41397-021-00211-1)
80. Youssef AAA, Cai C, Dudhipala N, Majumdar S. Design of Topical Ocular Ciprofloxacin Nanoemulsion for the Management of Bacterial Keratitis. *Pharmaceuticals (Basel).* 2021;14(3):210. [doi: 10.3390/ph14030210](https://doi.org/10.3390/ph14030210)

Book Selections

1. Vinjamuri BP, Kotha AK, Kolte A, Haware RV, Chougule MB. Chapter 12 - Polymer applications in pulmonary drug delivery. In: *Applications of Polymers in Drug Delivery.* 2021: 333-354 (Second Edition). [doi: 10.1016/B978-0-12-819659-5.00012-4](https://doi.org/10.1016/B978-0-12-819659-5.00012-4)