

Faculty of Medicine publications – 2020

1. ZhangK, LiuX, ShenJ, et al. Clinically Applicable AI System for Accurate Diagnosis, Quantitative Measurements, and Prognosis of COVID-19 Pneumonia Using Computed Tomography. *Cell*. 2020;181(6):1423-1433.e11. doi:10.1016/j.cell.2020.04.045
2. MizukamiH, OsonoiS, TakakuS, et al. Role of glucosamine in development of diabetic neuropathy independent of the aldose reductase pathway. *Brain Commun*. 2020;2(2):fcaa168. doi:10.1093/braincomms/fcaa168
3. ZhangHX, LiY, LiZ, et al. Rapid and sensitive determination of four bisphosphonates in rat plasma after MTBSTFA derivatization using liquid chromatography-mass spectrometry. *J Pharm Biomed Anal*. 2020;190:113579. doi:10.1016/j.jpba.2020.113579
4. BhaskarA, NgAKM, PatilNG, FokM. Zooming past the coronavirus lockdown: online spirometry practical demonstration with student involvement in analysis by remote control. *Adv Physiol Educ*. 2020;44(4):516-519. doi:10.1152/advan.00097.2020
5. TomlinsonB, ChanP, ZhangY, LiuZ, LamCWK. Pharmacokinetics of current and emerging treatments for hypercholesterolemia. *Expert Opin Drug Metab Toxicol*. 2020;16(5):371-385. doi:10.1080/17425255.2020.1749261
6. JiangH, OuZ, HeY, et al. DNA methylation markers in the diagnosis and prognosis of common leukemias. *Signal Transduct Target Ther*. 2020;5(1):3. doi:10.1038/s41392-019-0090-5
7. ZengW, Kwan LawBY, Wai WongVK, et al. HM30181A, a potent P-glycoprotein inhibitor, potentiates the absorption and in vivo antitumor efficacy of paclitaxel in an orthotopic brain tumor model. *Cancer Biol Med*. 2020;17(4):986-1001. doi:10.20892/j.issn.2095-3941.2020.0128
8. SoWK, KimHK, ChenY, et al. Exchange protein directly activated by cAMP (Epac) 1 plays an essential role in stress-induced exercise capacity by regulating PGC-1 α and fatty acid metabolism in skeletal muscle. *Pflugers Arch*. 2020;472(2):195-216. doi:10.1007/s00424-019-02344-6
9. SpracklenCN, HorikoshiM, KimYJ, et al. Identification of type 2 diabetes loci in 433,540 East Asian individuals. *Nature*. 2020;582(7811):240-245. doi:10.1038/s41586-020-2263-3

10. ChuM, TsangMSM, HeR, LamCWK, QuanZB, WongCK. The Active Compounds and Therapeutic Mechanisms of Pentaherbs Formula for Oral and Topical Treatment of Atopic Dermatitis Based on Network Pharmacology. *Plants (Basel, Switzerland)*. 2020;9(9). doi:10.3390/plants9091166
11. KanLLY, LiuD, ChanBCL, et al. The flavonoids of *Sophora flavescens* exerts anti-inflammatory activity via promoting autophagy of Bacillus Calmette-Guérin-stimulated macrophages. *J Leukoc Biol*. 2020;108(5):1615-1629. doi:10.1002/JLB.3MA0720-682RR
12. TomlinsonB, ChanP, LiuZM. Statin Intolerance-An Asian Perspective. *J Atheroscler Thromb*. 2020;27(5):485-488. doi:10.5551/jat.50435
13. JiangT, WangL, MaA, et al. The hypoglycemic and renal protective effects of *Grifola frondosa* polysaccharides in early diabetic nephropathy. *J Food Biochem*. 2020;44(12):e13515. doi:10.1111/jfbc.13515
14. ZhangK, TongW, WangX, LauJYN. Estimated prevalence and viral transmissibility in subjects with asymptomatic SARS-CoV-2 infections in Wuhan, China. *Precis Clin Med*. 2020;3(4):301-305. doi:10.1093/pcmedi/pbaa032
15. BridgesSM, ChanLK, ChenJY, TsangJPY, GanoticeFA. Learning environments for interprofessional education: A micro-ethnography of sociomaterial assemblages in team-based learning. *Nurse Educ Today*. 2020;94:104569. doi:10.1016/j.nedt.2020.104569
16. XuY, LiX, ZhuB, et al. Characteristics of pediatric SARS-CoV-2 infection and potential evidence for persistent fecal viral shedding. *Nat Med*. 2020;26(4):502-505. doi:10.1038/s41591-020-0817-4
17. LuoH, ZhaoQ, WeiW, et al. Circulating tumor DNA methylation profiles enable early diagnosis, prognosis prediction, and screening for colorectal cancer. *Sci Transl Med*. 2020;12(524). doi:10.1126/scitranslmed.aax7533
18. ZhangK, LauJYN, YangL, MaZG. SARS-CoV-2 reinfection in two patients who have recovered from COVID-19. *Precis Clin Med*. 2020;3(4):292-293. doi:10.1093/pcmedi/pbaa031

19. LiY, ChenY, ZhangH, et al. Immobilization of cell membrane onto a glucose-Zn-based porous coordination polymer and its application to rapid screening of potentially active compounds from *Vaccinium corymbosum* L. leaves. *Mikrochim Acta*. 2020;187(11):630. doi:10.1007/s00604-020-04612-0
20. HouT, SunX, ZhuJ, et al. IL-37 Ameliorating Allergic Inflammation in Atopic Dermatitis Through Regulating Microbiota and AMPK-mTOR Signaling Pathway-Modulated Autophagy Mechanism. *Front Immunol*. 2020;11:752. doi:10.3389/fimmu.2020.00752
21. TomlinsonB, ChanP, LamCWK. Statin Controversies Continued: Response to the Letter from Azemawah et al. *Cardiovasc drugs Ther*. 2020;34(6):887-888. doi:10.1007/s10557-020-07049-y
22. SunX, HouT, CheungE, et al. Anti-inflammatory mechanisms of the novel cytokine interleukin-38 in allergic asthma. *Cell Mol Immunol*. 2020;17(6):631-646. doi:10.1038/s41423-019-0300-7
23. XiaX, ChenX, WuG, et al. Three-dimensional facial-image analysis to predict heterogeneity of the human ageing rate and the impact of lifestyle. *Nat Metab*. 2020;2(9):946-957. doi:10.1038/s42255-020-00270-x
24. WangT, WuY, LauJYN, et al. A four-compartment model for the COVID-19 infection-implications on infection kinetics, control measures, and lockdown exit strategies. *Precis Clin Med*. 2020;3(2):104-112. doi:10.1093/pcmedi/pbaa018
25. TomlinsonB, ChanP, ZhangY, LamCWK. Efficacy and safety of add on therapies in patients with hypercholesterolemia undergoing statin therapy. *Expert Opin Pharmacother*. 2020;21(17):2137-2151. doi:10.1080/14656566.2020.1801638
26. HouFF, ZhouF, XuX, et al. Personnel protection strategy for healthcare workers in Wuhan during the COVID-19 epidemic. *Precis Clin Med*. 2020;3(3):169-174. doi:10.1093/pcmedi/pbaa024
27. ChanLK, PawlinaW. Artificial Intelligence or Natural Stupidity? Deep Learning or Superficial Teaching? *Anat Sci Educ*. 2020;13(1):5-7. doi:10.1002/ase.1936
28. ZhangCL, LaiWL, ZiyarI, LauLLY, XuJ. Bilateral simultaneous primary acute angle-closure glaucoma. *Precis Clin Med*. 2020;3(4):297-300. doi:10.1093/pcmedi/pbaa035

29. TomlinsonB, ChanP, LiuZ, LamCWK. Statin Pharmacology Revisited. *Cardiovasc drugs Ther.* 2020;34(2):225-226. doi:10.1007/s10557-020-06951-9
30. LinCH, ShaoL, ZhangYM, et al. An evaluation of liraglutide including its efficacy and safety for the treatment of obesity. *Expert Opin Pharmacother.* 2020;21(3):275-285. doi:10.1080/14656566.2019.1695779
31. MiXS, FengQ, LoACY, ChangRCC, ChungSK, SoKF. Lycium barbarum polysaccharides related RAGE and A β levels in the retina of mice with acute ocular hypertension and promote maintenance of blood retinal barrier. *Neural Regen Res.* 2020;15(12):2344-2352. doi:10.4103/1673-5374.284998
32. TomlinsonB, ChanP, LamCWK. Postprandial hyperlipidemia as a risk factor in patients with type 2 diabetes. *Expert Rev Endocrinol Metab.* 2020;15(3):147-157. doi:10.1080/17446651.2020.1750949
33. LiX, WangJ, WangL, et al. Impaired lipid metabolism by age-dependent DNA methylation alterations accelerates aging. *Proc Natl Acad Sci U S A.* 2020;117(8):4328-4336. doi:10.1073/pnas.1919403117
34. YangJ, WangW, ChenZ, et al. A vaccine targeting the RBD of the S protein of SARS-CoV-2 induces protective immunity. *Nature.* 2020;586(7830):572-577. doi:10.1038/s41586-020-2599-8
35. WuXX, YueGGL, DongJR, et al. Actein Inhibits Tumor Growth and Metastasis in HER2-Positive Breast Tumor Bearing Mice via Suppressing AKT/mTOR and Ras/Raf/MAPK Signaling Pathways. *Front Oncol.* 2020;10:854. doi:10.3389/fonc.2020.00854
36. LiR, ChenH, FengJ, et al. Effectiveness of Traditional Chinese Exercise for Symptoms of Knee Osteoarthritis: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Int J Environ Res Public Health.* 2020;17(21). doi:10.3390/ijerph17217873
37. XuX, SunJ, NieS, et al. Seroprevalence of immunoglobulin M and G antibodies against SARS-CoV-2 in China. *Nat Med.* 2020;26(8):1193-1195. doi:10.1038/s41591-020-0949-6
38. LiaoB, GengL, ZhangF, et al. Adipocyte fatty acid-binding protein exacerbates cerebral ischaemia injury by disrupting the blood-brain barrier. *Eur Heart J.* 2020;41(33):3169-3180. doi:10.1093/eurheartj/ehaa207

39. ZhangKX, IpCK, ChungSK, et al. Drug-resistance in rheumatoid arthritis: the role of p53 gene mutations, ABC family transporters and personal factors. *Curr Opin Pharmacol.* 2020;54:59-71. doi:10.1016/j.coph.2020.08.002
40. ChenH, YaoX, LiT, et al. Compound Kushen injection combined with platinum-based chemotherapy for stage III/IV non-small cell lung cancer: A meta-analysis of 37 RCTs following the PRISMA guidelines. *J Cancer.* 2020;11(7):1883-1898. doi:10.7150/jca.40267