

eScripts is a monthly newsletter highlighting faculty, staff, students and alumni of the University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences.



DECEMBER 2022

Top 3 Stories of the Year

2022 has been a wonderful ride. The year was filled with revisiting traditions, returning to work in person, and the opportunity to continue to expand our reach. As a year in review, the top 3 stories from the CU Pharmacy Newsroom are:

1. [New Research Could Anticipate Covid's Next Move](#)
2. [Distance Degrees Grad Keeps Many Balls in the Air](#)
3. [Medicine is Personal for this PhD Graduate](#)



Patel Named President of the American Epilepsy Society

Manisha Patel, PhD, begins her term as president of the American Epilepsy Society (AES) at the conclusion of the Society's annual meeting in Nashville, on Dec. 6. A medical and scientific society of 4,700 members, the AES is dedicated to advancing research and education for preventing, treating and curing epilepsy. Patel is one of only three pharmacists in its history to lead AES.



[Read more](#)

Dr. David Steeb Addresses Healthcare Inequity

For this year's Dean's Leadership Convocation, we welcomed Dr. David Steeb, Dean of the College of Global Population Health at the University Health Sciences and Pharmacy in St. Louis, MO. Dr. Steeb spoke on "Advancing population health locally and globally to create a more equitable future for all."



Nuffer Fosters International Relationship with IIUM

Wes Nuffer, PharmD, traveled to Malaysia as a visiting associate professor to help provide expertise around expanding pharmacists scope of practice to include immunizations as well as interprofessional learning at the International Islamic University Malaysia.



PhD Student Awarded Young Investigator

At the recent Society for Redox Biology and Medicine meeting in Orlando, 3rd Year Toxicology PhD student Courtney McGinnis took home the Young Investigator Travel Award for her work. These awards are made available to students and postdocs who submitted abstracts for SFRBM 2022 to present their research. Abstracts were judged using a double blind review process.



Fall Ball Returns

For the first time since the start of the pandemic, the annual Fall Ball was back! Pharmacy faculty, students and staff came together for a night of fun, dancing, and connecting.



[Look at the photos](#)

Alumni Zone

Look here for the monthly alumni spotlights, upcoming events, and opportunities to get involved!



Alumni Spotlight: 2022 in Review

It was life full circle in 2022 as a return to normalcy occurred and in-person activity amped up. Along with the numerous alumni featured each month, a full schedule of activities kept CU Pharmacy alumni involved. Here is just a glimpse of the year 2022 as the year closes.



[Read more](#)

December Happy and Healthy

Join us Wednesday, Dec. 14, 5-6 p.m. MST for the next Alumni Happy & Healthy Hour as Amanda Skidmore, Board Certified Ergonomist, covers basic ergonomic concepts and how to apply them to both your work and activities of daily living.



[Register today](#)

Hosts Needed for Medical Professions Students

If you live in the Denver Metro area and have an extra room in your home that you'd be willing to open up to a medical professions student on occasion, please contact Karen Jealous at Front Range Area Health Education Center (FRAHEC). It's possible that you benefited from FRAHEC housing when you were a student or you know of someone who did. This is an opportunity to provide safe, affordable housing to students who are doing rotations away from their normal place of residence. These rotations are generally 2-6 weeks, with the occasional longer rotation. Hosts are compensated \$23/night for the time period of the student's placement with them. If you would like more information, please contact Karen at: karen@rhealth.org or call her at 303-720-7600 x2.



Alumni Heroes

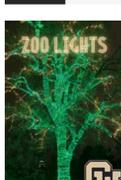
Honor a member of the CU Pharmacy Alumni Family who make a difference by nominating them for Alumni Heroes. Every nomination will receive a hero pin and a handwritten note from the alumni associations.



[Nominate a peer](#)

All Alumni Zoo Lights

Did we miss you at Zoo Lights on Nov. 20? CU Pharmacy Alumni got an early start on the holiday season by enjoying the amazing Denver Zoo Lights. A sell-out every year, CU's night at Zoo Lights allows alumni to take in the holiday magic before the general public. The Zoo spends four months getting ready for this annual event. Don't miss out in 2023!



[Look at the photos](#)

Continuing Education

Live and online ACPE-accredited programs for life-long learning.



Happy Holidays from the CE Office! Use Code CEHOLIDAY now - January 6th to receive 25% Off CE Home Study!

Use your discount on any of the five home study series below:

- [Joe and Bob 6 Pack Webinar Cardiovascular Series](#)
- [Integrative Health and Medicine 2 Course Pack](#)
- [Infectious Disease: STIs and UTIs](#)
- [Infectious Disease: Clinical Microbiology and Antibacterial Fundamentals](#)
- [PfEP/PEP](#)

Thought Leaders

Monthly overview of faculty in the news and their published research.



In The News

- [Breakpoints](#), The Swinging PEN-dulum: Evolving Approaches to Cephalosporin Use in Penicillin Allergic Patients, feat. Meghan Jeffers, PharmD
- [CU Newsroom](#), Fentanyl and Counterfeit Prescription Drugs: Facts and Myths, feat. Rob Valuck, PhD
- [The Denver Post](#), Adderall, antibiotic shortages likely to continue into 2023, Colorado pharmacist says, feat. Kelsey Schwander, PharmD
- [Diversity in Action](#), Emerging Science: Research into medical uses of cannabis makes strides while facing legal obstacles, feat. David Kroll, PhD

Research Roundup

- [ACS Nano](#), Targeted Intracellular Delivery of Trastuzumab Using Designer Phage Lambda Nanoparticles Alters Cellular Programs in Human Breast Cancer Cells, Catala A, Dziaciolkowska M, Wang G, Gutierrez-Hartmann A, Simberg D, Hansen KC, D'Alessandro A, Catalano CE. 2021 Jul 27;15(7):11789-11805. doi: 10.1021/acsnano.1c02864. Epub 2021 Jun 30. PMID: 34189924
- [ACS Appl Mater Interfaces](#), PEGylation of Phosphatidylglycerol/Docosahexaenoic Acid Hexosomes with d-α-Tocopheryl Succinate Poly(ethylene glycol)0000 Induces Morphological Transformation into Vesicles with Prolonged Circulation. Times, Bor G, Lin JH, Lin KY, Chen HC, Prajnamitra RP, Salentinn S, Hsieh PCH, Moghimi SM, Yagmur A. 2022 Nov 23;14(43):4844-48483. doi: 10.1021/acsmi.2c14375. Epub 2022 Oct 22. PMID: 36271846
- [AIDS Res Hum Retroviruses](#), Pharmacokinetics of Etricitabine/Tenofovir Disoproxil Fumarate Among Transgender Adolescents and Young Adults Without HIV Receiving Gender Affirming Hormones, Yager J, Brooks KM, Brothers J, Mulligan K, Landovitz R, Rearden D, Glennly C, Mahotra M, Anderson PL, Hoek S. 2022 Nov;38(11):840-846. doi: 10.1089/AID.2022.0043. Epub 2022 Sep 7. PMID: 35949868
- [Am J Cardiovasc Drugs](#), Potential Cardiovascular Events Avoided with Bempedoic Acid Plus Ezetimibe Fixed-Dose Combination Compared with Ezetimibe Alone in Patients with Atherosclerotic Cardiovascular Disease Taking Maximally Tolerated Statins, McQueen RB, Baum SJ, Louie M, Sasiela WW, Billou A, Shah H, Nash B, Gillard KK, Ray KK. 2022 Oct 31. doi: 10.1007/s40256-022-00552-7. Online ahead of print. PMID: 36116612
- [Am J Pharm Educ](#), Improving Equity for Women in Pharmacy Academia, Bond R, Hammer D, Van Tassel B. 2022 Nov 4;ajpe9088. doi: 10.5688/ajpe9088. Online ahead of print. PMID: 36332919
- [Biosci Rep](#), FAD-deficient P187S mutation of NAD(P)H quinone oxidoreductase 1 (NQO1*2) binds and accelerates β-amyloid aggregation, Panja S, Siegel D, Camandola S, de Cabo R, Ross D, Mallela KMG. 2022 Nov 30;42(11):BSR20220643. doi: 10.1042/BSR20220643. PMID: 36287797
- [Cell Death Dis](#), Pexins block retinal ganglion cell death in animal models of ocular hypertension: implications for neuroprotection in glaucoma, Nam MH, Stankowska DL, Johnson GA, Nahomi RB, Parichieva MB, Nagaraj RH. 2022 Nov 15;13(11):958. doi: 10.1038/s41419-022-05407-2. PMID: 36379926 **Free PMC article**.
- [Cell Mol Gastroenterol Hepatol](#), Fatty Acid Ethyl Ethers: New Modulators of Acute Ethanol-Mediated Hepatotoxicity? Anton P, Rutt LN, Twardy SM, Mccullough RL. 2022 Nov 23;S2352-345X(22)00235-1. doi: 10.1016/j.jcmgh.2022.11.002. Online ahead of print. PMID: 36435276 No abstract available.
- [Clin Infect Dis](#), Long-Acting Treatments for Hepatitis B, Thomas DL, Kiser JJ, Baum MM. 2022 Nov 21;75(Supplement_4):S517-S524. doi: 10.1093/cid/ciac718. PMID: 36410388
- [Clin Toxicol \(Phila\)](#), Genetic variants associated with ALT elevation from therapeutic acetaminophen, Monte AA, Arriaga MacKenzie I, Pattee J, Kaiser S, Willets E, Rumack B, Reynolds KM, Durr HC, Heald KJ. 2022 Nov;60(11):198-1204. doi: 10.1080/15563650.2022.2117053. Epub 2022 Sep 14. PMID: 36102175 **Free PMC article**.
- [Commun Med \(Lond\)](#), Comparative analyses of eighteen rapid antigen tests and RT-PCR for COVID-19 quarantine and surveillance-based isolation, Wells CR, Pandey A, Moghadas A, Singer BH, Krieger G, Heron FJL, Turner DE, Abshire JP, Phillips KM, Michael Donoghue A, Galvani A, Townsend JP. 2022 Jul 9;2(1):84. doi: 10.1038/s43856-022-00147-y. PMID: 36380232
- [Diabetes](#), Cathepsin D Drives the Formation of Hybrid Insulin Peptides Relevant to the Pathogenesis of Type 1 Diabetes, Crawford SA, Wiles TA, Wenzlau JM, Powell RL, Barbour G, Dang M, Groegler J, Barra JM, Burnette KS, Hohenstein AC, Baker RL, Tse HM, Haskins K, DeLong T. 2022 Dec 1;71(12):2793-2803. doi: 10.2337/db22-0303. PMID: 36041196
- [eNeuro](#), Coordinated Regulation of Gβ1-Cannabinoid Receptors and Anandamide Metabolism Stabilizes Network Activity during Ethanol Withdrawal, Ye M, Monroe SK, Gay SM, Armstrong ML, Youngstrom EA, Ursina RL, Gupta SL, Resheg N, Diering GH. 2022 Nov 11;9(6):ENEURO.0276-22.2022. doi: 10.1523/ENEURO.0276-22.2022. Print 2022 Nov-Dec. PMID: 36316116 **Free PMC article**.
- [Front Pharmacol](#), Redox state and the nitroin deacetylases are major factors that regulate the acetylation status of the stress protein NQO1, Siegel D, Harris PS, Michal CR, de Cabo R, Fritz KS, Ross D. 2022 Nov 23;13:1015642. doi: 10.3389/fphar.2022.1015642. eCollection 2022. PMID: 36408211 **Free PMC article**.
- [Front Pharmacol](#), The role of the type 7 adenylyl cyclase isoform in alcohol use disorder and depression, Tabakoff B, Hoffman PL. 2022 Oct 17;13:1012013. doi: 10.3389/fphar.2022.1012013. eCollection 2022. PMID: 36386206 **Free PMC article**. Review.
- [Front Physiol](#), Oxidized low density lipoprotein in the liver causes decreased permeability of liver lymphatic, but not liver sinusoidal endothelial cells via VEGFR-3 regulation of VE-Cadherin, Goldberg AP, Ferguson M, Pal S, Cohen R, Orsley DJ, McCullough RL, Rutkowski JH, Churchill MA, Tamburini BAJ. 2022 Oct 19;13:1021038. doi: 10.3389/fphys.2022.1021038. eCollection 2022. PMID: 36338478 **Free PMC article**.
- [Inhal Toxicol](#), A review of chemical warfare agents linked to respiratory and neurological effects experienced in Gulf War Illness, Cruz-Hernandez A, Reyes A, Goswami DG, Tewari-Singh N, Brown JM. 2022;34(11-14):412-432. doi: 10.1080/08958378.2022.2147257. Epub 2022 Nov 17. PMID: 36394251 Review.
- [J Clin Pharmacol](#), The Impact of Suboptimal 25-Hydroxyvitamin D Levels and Cholecalciferol Replacement on the Pharmacokinetics of Oral Midazolam in Control Subjects and Patients With Chronic Kidney Disease, Tusey SM, Prebehalla L, Roque AA, Rosta G, Chonchol MB, Shah N, Wempe MF, Hu Y, Hogan SL, Nolin TD, Joy MS. 2022 Dec;62(12):1528-1538. doi: 10.1002/jcp.2104. Epub 2022 Jul 9. PMID: 35678297
- [J Diabetes Complications](#), Tirzepatide: A Novel, first-in-class, dual GIP/GLP-1 receptor agonist. Tall Bull S, Nuffer W, Trujillo JM. 2022 Oct 5;36(12):108332. doi: 10.1016/j.jdiacomp.2022.108332. Online ahead of print. PMID: 36375235 Review.
- [J Control Release](#), Nanometer- and angstrom-scale characteristics that modulate complement responses to nanoparticles, Moghimi SM, Haron HB, Yagmur A, Simberg D, Trohopoulos FN. 2022 Nov;351:432-443. doi: 10.1016/j.jconrel.2022.09.039. Epub 2022 Sep 27. PMID: 36152807
- [J Pain Symptom Manage](#), Anticholinergic Medications and Parent-Reported Anticholinergic Symptoms in Neurologically Impaired Children, Feinstein JA, Feudtner C, Kempe A, Orth LE. 2022 Nov 2;S0885-3924(22)00952-6. doi: 10.1016/j.jpainsymman.2022.10.013. Online ahead of print. PMID: 36332769
- [J Pharm Pract](#), Potentially Inappropriate Medication Usage in Older Adults in a Tertiary Academic Medical Center Emergency Department, Gardner K, Schwarz K, Pearson S, Jacknin G. 2022 Dec;35(6):892-897. doi: 10.1177/089719002211016813. Epub 2022 May 18. PMID: 34000880
- [Nucleic Acids Res](#), The regulatory landscape of multiple brain regions in outbred heterogeneous stock rats, Munro D, Wang T, Chitré AS, Pokesskaya O, Ehsan N, Gao J, Gusev A, Woods LCS, Saba LM, Chen H, Palmer AA, Mohammadi P. 2022 Oct 28;50(19):10882-10895. doi: 10.1093/nar/gkac912. PMID: 36283809 **Free PMC article**.
- [Pharmacoecon Open](#), Framework for Patient Experience Value Elements in Rare Disease: A Case Study Examining the Applicability of Combined Qualitative and Quantitative Methods, McQueen RB, Mendola ND, Jakab I, Bennett J, Nair KV, Németh B, Inotai A, Kal O. 2022 Nov 1. doi: 10.1007/s41669-022-00376-w. Online ahead of print. PMID: 36316575
- [Prog Cardiovasc Dis](#), Clinical outcomes involving statin drug-drug interactions, Lamprecht DG Jr, Saseen JJ, Shaw PB. 2022 Nov 15;50(33-0620):20114-1. doi: 10.1007/s12042-022-11-002. Online ahead of print. PMID: 36400235 Review.
- [Transl Vis Sci Technol](#), Aβ2/3-Mediated Expression of Hsp71 in RGCs Prevents Sorral Damage and Axonal Transport Deficits in a Mouse Model of Ocular Hypertension, Nam MH, Nahomi RB, Parichieva MB, Dillon A, Chiodo VA, Smith WC, Nagaraj RH. 2022 Nov 1;11(1):8. doi: 10.1167/hvst.11.11.8. PMID: 36355386 **Free PMC article**.