Kumar D, Brill JW, Hastings JT. **Enhanced patterned fluorescence from polystyrene through focused electron beam irradiation under various gases.** Nanotechnology. 2025. Epub 2025/08/29. doi: 10.1088/1361-6528/ae00cc. PubMed PMID: 40882666.

Edmonds K, Dutch R. **Respiratory Syncytial Virus Fusion Activity Syncytia Assay.** Methods Mol Biol. 2025;2948:73-83. Epub 2025/08/29. doi: 10.1007/978-1-0716-4666-3\_5. PubMed PMID: 40879902.

Durán MC, Suazo M, Maturana A, Vargas MP, García A, Ahumada C, Pezoa A, Goehring LS, Lara F. **First Equine Herpes Myeloencephalopathy (EHM) Outbreak in Chile.** Animals (Basel). 2025;15(16). Epub 2025/08/28. doi: 10.3390/ani15162344. PubMed PMID: 40867672; PMCID: PMC12382900.

Scoggin KE, Adlan F, Fedorka CE, Rakha SI, Stout TAE, Troedsson MHT, Ali HE. **Gestation-Stage Related Changes in the IGF System Components in the Equine Placenta.** Biomolecules. 2025;15(8). Epub 2025/08/28. doi: 10.3390/biom15081135. PubMed PMID: 40867581; PMCID: PMC12384007.

Palmer KNB, Mantina NM, Adegboyega A, Sokale IO, Pryor K, Suero-Davis A, Brooks T, Hatcher J. **Group concept mapping to develop a salon-based HPV self-collection intervention.** Cancer Causes Control. 2025. Epub 2025/08/27. doi: 10.1007/s10552-025-02056-6. PubMed PMID: 40864371.

McGuire CM, Cinco IR, Takahashi D, Sauter KA, Kirigiti M, Messaoudi I, Sacha JB, Roberts CT, Kievit P. **Impact of obesity on the gut microbiome and inflammatory markers during SIV infection and antiretroviral therapy.** Microbiol Spectr. 2025;:e0073325. Epub 2025/08/27. doi: 10.1128/spectrum.00733-25. PubMed PMID: 40862619.

Worsham Behal K, Stoner BJ, Schadler A, Burgess D, Burgess DS, Mynatt RP. **Risk of Treatment Failure in Outpatient Parenteral Antimicrobial Therapy From an Academic Medical Center in Kentucky.** Open Forum Infect Dis. 2025;12(8):ofaf459. Epub 2025/08/27. doi: 10.1093/ofid/ofaf459. PubMed PMID: 40860511; PMCID: PMC12372661.

Smith AP, Lang J, Canedo C, Freeman PR, Hammerslag LR, Harris DR, Kizewski A, Rock P, Seyedtalebi NM, Westgate PM, Talbert J, Walsh SL, Slavova S. **Drug overdose deaths in Kentucky, 2019-2024: are we back to Pre-COVID-19 levels?.** Inj Epidemiol. 2025;12(1):51. Epub 2025/08/27. doi: 10.1186/s40621-025-00608-7. PubMed PMID: 40859344; PMCID: PMC12382091.

Childerhose JE, Gelberg K, Vickers-Smith R, Dzurec ME, Oga E, Harris M, Caspar R, Babineau DC, Hall ME, Linas BS, Marks KE, Fallin-Bennett A, Fanucchi LC, Gilbert L, David JL, Russo M, Lancaster KE, Fernandez S, Konstan M, Chandler RK, Roeber C, Villani J, Jackson RD, Freisthler B, Walsh SL, El-Bassel N. **Prospective cohort study of fentanyl test strip use and distribution in three states: the stay safe study protocol and implementation recommendations for researchers.** Harm Reduct J. 2025;22(1):146. Epub 2025/08/26. doi: 10.1186/s12954-025-01277-x. PubMed PMID: 40855432; PMCID: PMC12379525.

Khan A, Jose-Cunilleras E, Hyde E, Olajide E, Polo MC, Goehring LS. **Airborne detection of Equid alphaherpesvirus 1 at international equestrian events.** Equine Vet J. 2025. Epub 2025/08/25. doi: 10.1111/evj.70078. PubMed PMID: 40851273.

Marchio SP, El-Sheikh Ali H, Scott MA, Barbosa Fernandes C, Scoggin KE, Troedsson M, Boakari Y. **Decoding the amniotic membrane transcriptome during equine ascending placentitis.** Sci Rep. 2025;15(1):30714. Epub 2025/08/21. doi: 10.1038/s41598-025-16671-5. PubMed PMID: 40841585; PMCID: PMC12371064.

Mani R, Evers BM, Suzuki Y. **Novel Protein Adjuvant Activating Innate IFN-γ and IL-18 Expression and Inducing Rejection of Implanted Colorectal Cancer Following Immunotherapy Using This Adjuvant in Mice.** Med Res Arch. 2025;13(6). Epub 2025/08/20. doi: 10.18103/mra.v13i6.6615. PubMed PMID: 40832663; PMCID: PMC12360206.

Sun B, Wu CY, Gonzalez PA, Nagy PD. **Mobilization of nuclear antiviral factors by exportin XPO1 via the actin network inhibits RNA virus replication.** PLoS Pathog. 2025;21(8):e1012841. Epub 2025/08/19. doi: 10.1371/journal.ppat.1012841. PubMed PMID: 40828816; PMCID: PMC12393752.

Sangalli L, Mirfarsi S, Kramer JM, Eisa E, Miller CS. **Managing Burning Mouth Syndrome: Current and Future Directions.** Drugs. 2025. Epub 2025/08/15. doi: 10.1007/s40265-025-02220-x. PubMed PMID: 40815383.

Margos G, Stevenson B, Birtles R, Gofton A, Talagrand-Reboul E, Goeker M, Fingerle V. **Proposing a subgenus Borreliella.** Ticks Tick Borne Dis. 2025;16(5):102536. Epub 2025/08/14. doi: 10.1016/j.ttbdis.2025.102536. PubMed PMID: 40812006.

Mitaka H, McQuerry K, Karnik K, Marra AR, Naito T, Ten Eyck P, Auwaerter PG, Yamada Y, Kobayashi T. **Fournier gangrene is associated with increased length of stay and higher healthcare costs compared to non-perineal necrotizing soft tissue infections: a retrospective analysis of the National Inpatient Sample (2016-2020).** Antimicrob Steward Healthc Epidemiol. 2025;5(1):e178. Epub 2025/08/14. doi: 10.1017/ash.2025.10084. PubMed PMID: 40808897; PMCID: PMC12345050.

McQuaide L, El-Dalati S, Gill D, Stoner BJ. **Hepatitis C Treatment Outcomes for Patients With Infective Endocarditis Treated by an Interdisciplinary Team.** Open Forum Infect Dis. 2025;12(8):ofaf431. Epub 2025/08/13. doi: 10.1093/ofid/ofaf431. PubMed PMID: 40799791; PMCID: PMC12341923.

Rao X, Liu J, Allison DB, Harrison DA, Fong KW, Wu Y, He D, Peng J, Li Z, Wang C, Sturgill JL, Sen P, Liu X. **mTORC1-Dependent Regulation of the CCL24-CCR3 Axis Controls Granuloma Formation and Maintenance in Sarcoidosis.** bioRxiv. 2025. Epub 2025/08/12. doi: 10.1101/2025.07.11.664317. PubMed PMID: 40791394; PMCID: PMC12338499.

Beaubien-Souligny W, Bastin MT, Teixeira JP, Cerda J, Connor MJ, Zeidman AD, Garimella PS, Juncos L, Lopez-Ruiz A, Mehta R, Reis T, Rizo-Topete L, Silver SA, Da Silva JR, Speer R, Vijayan A, Wells C, Wille K, Yessayan L, Tolwani A, Neyra JA. **Proceedings of the UAB CRRT Academy (2023-2024): Managing De-Escalation of Acute RRT and Optimizing Drug Dosing During RRT Transitions.** Kidney360. 2025. Epub 2025/08/08. doi: 10.34067/KID.0000000951. PubMed PMID: 40779331.

Zeng S, Zhang W, Li C, Jiang Y, Wang D, Shao Q, Xu D. **ProtLoc-GRPO: Cell line-specific subcellular localization prediction using a graph-based model and reinforcement learning.** bioRxiv. 2025. Epub 2025/08/08. doi: 10.1101/2025.07.17.665451. PubMed PMID: 40777512; PMCID: PMC12330487.

Long S, Qiu Y, Lin T, Huang S, Zhang W, Liu S, Tian L, Palli SR, Li S, Li K. **20E-induced *Kr-h1* expression facilitates developmental transitions depending on chromosome accessibility of *BR-C* enhancers.** Proc Natl Acad Sci U S A. 2025;122(32):e2509608122. Epub 2025/08/07. doi: 10.1073/pnas.2509608122. PubMed PMID: 40773235; PMCID: PMC12358878.

True HE, Doratt BM, Wagner S, Malherbe DC, Shelman NR, Boroujeni ME, Cockerham C, O'Brien J, Messaoudi I. **Maternal opioid use with and without hepatitis C infection disrupts the structure and immune landscape of the maternal-fetal interface.** bioRxiv. 2025. Epub 2025/08/06. doi: 10.1101/2025.07.30.667651. PubMed PMID: 40766448; PMCID: PMC12324527.

Chen HY, Westneat S, Young AM. **Willingness to Use Wearable Devices for Overdose Detection and Response: A Cross-Sectional Survey of People Who Use Drugs in Rural Appalachian Kentucky.** Subst Use Misuse. 2025;:1-7. Epub 2025/08/05. doi: 10.1080/10826084.2025.2538730. PubMed PMID: 40760774.

Knudsen HK, Havens JR, Young AM. **Acceptability and Appropriateness of Harm Reduction Vending Machines Compared to Syringe Service Programs in Appalachian Kentucky.** J Stud Alcohol Drugs. 2025. Epub 2025/08/01. doi: 10.15288/jsad.25-00120. PubMed PMID: 40748271.

Liu C, Zhang X, Qiao Q, Wang Z, Shao Q, Shi J. **Volatile fatty acids recovery from thermophilic acidogenic fermentation using hydrophobic deep eutectic solvents.** J Biol Eng. 2025;19(1):73. Epub 2025/08/01. doi: 10.1186/s13036-025-00544-6. PubMed PMID: 40745327; PMCID: PMC12315322.

McLaurin KA, Illenberger JM, Li H, Booze RM, Mactutus CF. **Sex-dependent modulation of behavioral allocation via ventral tegmental area-nucleus accumbens shell circuitry.** NeuroImmune Pharm Ther. 2025;4(2):237-252. Epub 2025/07/31. doi: 10.1515/nipt-2025-0002. PubMed PMID: 40740679; PMCID: PMC12304879.

Huang H, Shoemaker R, Alsiraj Y, Murphy M, Gibbons TE, Bauer JA. **Hepatic Inflammation Primes Vascular Dysfunction Following Treatment with LPS in a Murine Model of Pediatric Fatty Liver Disease.** Int J Mol Sci. 2025;26(14). Epub 2025/07/29. doi: 10.3390/ijms26146802. PubMed PMID: 40725048; PMCID: PMC12296113.

Fahmy NA, Karna S, Bhusal A, Kabir A, Erol E, Helmy YA. **Multidrug Resistance and Virulence Traits of *Salmonella enterica* Isolated from Cattle: Genotypic and Phenotypic Insights.** Antibiotics (Basel). 2025;14(7). Epub 2025/07/29. doi: 10.3390/antibiotics14070689. PubMed PMID: 40723992; PMCID: PMC12291950.

Hemati H, Blanton MB, True HE, Koura J, Khadka R, Grant KA, Messaoudi I. **Chronic alcohol consumption induces phenotypic and functional alterations consistent with a hyper-inflammatory state in peripheral blood mononuclear cell-derived microglia in a rhesus macaque model.** Brain Behav Immun. 2025;129:874-889. Epub 2025/07/29. doi: 10.1016/j.bbi.2025.07.022. PubMed PMID: 40721175.

Patel N, O'Brien J, Bunn R, Schanbacher B, Bauer J, Lam GK. **Perinatal artificial intelligence in ultrasound (PAIR) study: predicting delivery timing.** J Matern Fetal Neonatal Med. 2025;38(1):2532099. Epub 2025/07/29. doi: 10.1080/14767058.2025.2532099. PubMed PMID: 40717019.

Ji Y, Yan J, Palli SR, Gao Y. **Identification of Carboxylesterase Genes and Function of Three Inducible α-Esterase Genes Involved in Insecticidal Activity of α-Solanine in *Phthorimaea operculella*.** J Agric Food Chem. 2025. Epub 2025/07/25. doi: 10.1021/acs.jafc.5c05732. PubMed PMID: 40711936.

Hughes HR, Ballinger MJ, Bao Y, Bejerman N, Blasdell KR, Briese T, Brignone J, Carrera JP, De Coninck L, de Souza WM, Debat H, Dietzgen RG, Dürrwald R, Erdin M, Fooks AR, Forbes KM, Freitas-Astúa J, Garcia JB, Geoghegan JL, Grimwood RM, Horie M, Hyndman TH, Johne R, Klena JD, Kondo H, Koonin EV, Kostygov AY, Krupovic M, Kuhn JH, Letko M, Li JM, Liu Y, Martin ML, Mull N, Nazar Y, Nowotny N, Nunes MRT, Økland AL, Rubbenstroth D, Russell BJ, Schott E, Seifert S, Sen C, Shedroff E, Sironen T, Smura T, Tavares CPDS, Tesh RB, Tilston NL, Tordo N, Vasilakis N, Walker PJ, Wang F, Whitfield AE, Whitmer SLM, Wolf YI, Xia H, Ye GY, Ye Z, Yurchenko V, Zhao M, Ictv Taxonomy Summary Consortium undefined, undefined undefined. **Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses (ICTV) from the Animal dsRNA and ssRNA(-) Viruses Subcommittee, 2025.** J Gen Virol. 2025;106(7). Epub 2025/07/25. doi: 10.1099/jgv.0.002112. PubMed PMID: 40711815.

Hunt T, Oser CB, Friedmann PD, Mack N, Balvanz P, Freisthler B, Chandler RK, Hochstatter K, Harris DR, Glasgow L, D'Costa L, Russo MR, Eggleston B, Aldridge A, Bellair P, Cogan AG, David JL, El-Bassel N, Goddard-Eckrich D, Gomori S, Hagan H, Hanson S, Holloway J, Kinnard EN, Knott C, Konstan MW, Walsh SL, LeBaron PA, Lyons MS, McGladrey M, Papp J, Murphy SM, Springer S, Oga E, Staton M, Schady E, Montero F, Surratt HL, Stevens-Watkins D, Winhusen J, Zarkin GA, Hamilton GA, Sprunger JG. **Overdose education and naloxone distribution in jails: Examining the impact of the Communities That HEAL intervention in 4 states.** Health Justice. 2025;13(1):47. Epub 2025/07/25. doi: 10.1186/s40352-025-00353-5. PubMed PMID: 40711626; PMCID: PMC12296605.

Brown JL, Larochelle MR, Fanucchi LC, Calvert DC, Campbell ANC, Chandler RK, Feaster DJ, Glasgow LM, Gibson EB, Holloway J, Lofwall MR, Mack A, Mack N, Nunes EV, Talbert JC, Tan S, Vandergrift N, Villani J, Asman K, Babakhanlou-Chase H, Bagley SM, Battaglia TA, Blevins D, Bridden C, Cheng DM, Christopher M, Cogan LW, Cunningham CO, Eggleston B, Fareed N, Fernandez S, Freedman DA, Freiermuth CE, Freisthler B, Gilbert L, Hammerslag L, Harris D, Hunt T, Hussain S, Huynh P, Jackson RD, Kauffman EB, Knott C, Knudsen HK, Lefebvre RC, Levin FR, Massatti R, McAlearney AS, Morgan JR, Lopez RM, Lounsbury DW, Newman L, Nickels K, Oga EA, Oller DA, Parran TV, Quinn M, Ramsey KS, Rapkin BD, Salsberry P, Stein M, Taylor JL, Teater J, Walters ST, Zarkin GA, El-Bassel N, Winhusen TJ, Samet JH, Walsh SL. **Effects of the Communities That HEAL intervention on initiation, retention, and linkage to medications for opioid use disorder (MOUD): A cluster randomized wait-list controlled trial.** Drug Alcohol Depend. 2025;274:112785. Epub 2025/07/21. doi: 10.1016/j.drugalcdep.2025.112785. PubMed PMID: 40684522; PMCID: PMC12302724.

Hemati H, Blanton MB, Koura J, Khadka R, Grant KA, Messaoudi I. **Chronic Alcohol Consumption Enhances the Differentiation Capacity of Hematopoietic Stem and Progenitor Cells into Osteoclast Precursors.** Am J Pathol. 2025. Epub 2025/07/20. doi: 10.1016/j.ajpath.2025.06.010. PubMed PMID: 40683559.

Brandon H, Scarduzio JA, Fogleman L, Stallworth S, Kebodeaux C, Romanelli F. **Opinions of pharmacy educators regarding declining North American Pharmacist Licensure Examination (NAPLEX) first-time pass rates.** Curr Pharm Teach Learn. 2025;17(11):102435. Epub 2025/07/20. doi: 10.1016/j.cptl.2025.102435. PubMed PMID: 40683063.

Schipper K, Tamminga SM, Murner N, Davies M, Berkhout P, Bessen DE, Hendriks A, Korotkova N, Pannekoek Y, van Sorge NM. **Natural variation of the streptococcal group A carbohydrate biosynthesis genes impacts host-pathogen interaction.** Microb Genom. 2025;11(7). Epub 2025/07/17. doi: 10.1099/mgen.0.001443. PubMed PMID: 40673773; PMCID: PMC12282279.

Crawford MW, Abdelwahab WM, Siram K, Parkins CJ, Harrison HF, Stone ET, Osman SR, Schweitzer D, Burkhart DJ, Pinto AK, Brien JD, Smith JL, Hirsch AJ. **The TLR7/8 agonist INI-4001 enhances the immunogenicity of a Powassan virus-like-particle vaccine.** NPJ Vaccines. 2025;10(1):156. Epub 2025/07/17. doi: 10.1038/s41541-025-01215-9. PubMed PMID: 40670406; PMCID: PMC12267508.

Shannon A, Johnson T, Roberts CS, Chaton CT, Korotkov KV, Sandkvist M. **The PDZ domain of EpsC is required for extracellular secretion of VesB by the Type II secretion system in *Vibrio cholerae*.** J Bacteriol. 2025;:e0014425. Epub 2025/07/14. doi: 10.1128/jb.00144-25. PubMed PMID: 40657929.

El-Dalati S. **You'll Never Walk Alone: Multidisciplinary Teams for Drug-Use Associated Infective Endocarditis.** Can J Cardiol. 2025. Epub 2025/07/12. doi: 10.1016/j.cjca.2025.07.002. PubMed PMID: 40645407.

Strike W, Rockward A, Mijatovic B, Noble A, Olsson C, Torabi S, Banadaki MD, Adatorwovor R, Keck J, Berry S. **Clinical correlation of SARS-CoV-2 wastewater passive sampling in long-term care facilities and wastewater treatment plants.** Environ Adv. 2025;20. Epub 2025/07/11. doi: 10.1016/j.envadv.2025.100635. PubMed PMID: 40641522; PMCID: PMC12245160.

Wagner SB, Rincon M, Keen KE, Hawk GS, Marshall NE, Messaoudi I. **SARS-CoV-2 breakthrough infection during pregnancy preferentially elicits IgG4 response and enhanced placental-transfer.** Vaccine. 2025;62:127476. Epub 2025/07/11. doi: 10.1016/j.vaccine.2025.127476. PubMed PMID: 40639177.

Mackevicius-Dubickaja V, Gottlieb Y, White JA, Doremus MR. **Wolbachia Feminises a Spider Host With Assistance From Co-Infecting Symbionts.** Environ Microbiol. 2025;27(7):e70149. Epub 2025/07/10. doi: 10.1111/1462-2920.70149. PubMed PMID: 40635576; PMCID: PMC12242369.

Slaughter J, Sites J, Ballard H, Bauer J, Schadler A, Severyn N. **Comparison of the oxygenation index and the oxygen saturation index as clinical indicators for neonatal ECMO.** Front Pediatr. 2025;13:1586985. Epub 2025/07/09. doi: 10.3389/fped.2025.1586985. PubMed PMID: 40630719; PMCID: PMC12234480.

Blanton MB, Hemati H, Qiao Q, Khadka R, Hawk G, Grant KA, Messaoudi I. **Short-term heavy drinking in a non-human primate model skews monocytes toward a hypo-inflammatory phenotype.** Front Immunol. 2025;16:1606092. Epub 2025/07/08. doi: 10.3389/fimmu.2025.1606092. PubMed PMID: 40625733; PMCID: PMC12229841.

Shi Y, Widmalm G, Korotkova N, Molenaar A, Holmes MA, McDougall S, Bijlsma JJE, van Sorge NM, Benedictus L. **Discovery of glycerol phosphate and an immunogenic glycan motif in rhamnose-rich polysaccharides of Streptococcus uberis.** Vet Res. 2025;56(1):139. Epub 2025/07/08. doi: 10.1186/s13567-025-01574-0. PubMed PMID: 40624561.

South AM, Babalonis SL, Fanucchi LC, Lofwall MR. **"Medical Cannabis": Advising Patients While Navigating Medical Ethics and Limited Evidence.** J Gen Intern Med. 2025. Epub 2025/07/08. doi: 10.1007/s11606-025-09680-7. PubMed PMID: 40624323.

Balvanz P, Olvera RG, Booty M, McSwiggan J, Damato-MacPherson C, Ellison S, Farmer A, Klingler K, Kuntz A, Lewis N, Oser CB, Martinez LS, Stitzer S, Surratt H, Yamoah O, Berkshire A, Carter T, Campbell K, Dynes S, Gealy B, Harris F, Herrington B, Matthews S, Myers D, Rapier C, Shouse A, Szelagowsi S, McGladrey M. **A participatory photovoice investigation of community assets, barriers, and opportunities to curb the opioid epidemic.** J Subst Use Addict Treat. 2025;176:209741. Epub 2025/07/03. doi: 10.1016/j.josat.2025.209741. PubMed PMID: 40602683.

Cook K, Havens JR, Slavova S, Thompson K, Young AM, Vickers-Smith RA. **Changing Trends in Nonmedical Gabapentin Use Among a Cohort of Rural Appalachian People Who Use Drugs: A Longitudinal Study Over the Time Period of Scheduling Changes in Kentucky.** Int J Drug Policy. 2025;143:104904. Epub 2025/07/03. doi: 10.1016/j.drugpo.2025.104904. PubMed PMID: 40602201.

Zhang Y, Qin Y, Pourmirzaei M, Shao Q, Wang D, Xu D. **Enhancing Structure-Aware Protein Language Models with Efficient Fine-Tuning for Various Protein Prediction Tasks.** Methods Mol Biol. 2025;2941:31-58. Epub 2025/07/02. doi: 10.1007/978-1-0716-4623-6\_2. PubMed PMID: 40601249.

Kerley BS, Harris P, Jacquay E, Askins M, McClendon M, Adams AA. **Identifying insulinemic responses of ID horses offered varying levels of NSC and meal-sizes.** J Equine Vet Sci. 2025;151:105638. Epub 2025/07/01. doi: 10.1016/j.jevs.2025.105638. PubMed PMID: 40588143.

Burus T, Windon MJ, Jakubek YA, Lang Kuhs KA. **Disparities in Human Papillomavirus-Associated Cancer Incidence by Appalachian Residence.** JAMA Netw Open. 2025;8(6):e2518242. Epub 2025/07/01. doi: 10.1001/jamanetworkopen.2025.18242. PubMed PMID: 40587129; PMCID: PMC12210082.

Tully D, Bean D, Sarette J, Ngo TL, Power K, Brook D, Cooper H, Feinberg J, Friedmann P, Hochstatter K, Havens J, Babalonis S, Hurt C, Jenkins W, Korthuis T, Miller W, Pho M, Smith G, Stopka T, Tsui J, Mixson S, Westergaard R, Young A, Allen T. **Genomic surveillance uncovers regional variation in HCV transmission networks among people who use drugs in rural U.S. communities.** Res Sq. 2025. Epub 2025/07/01. doi: 10.21203/rs.3.rs-6810633/v1. PubMed PMID: 40585240; PMCID: PMC12204503.

Burus T, Wright NL, Burus JD, McLouth LE, Lang Kuhs KA. **Prevalence of and differences in participation restrictions among US cancer survivors.** Int J Cancer. 2025. Epub 2025/07/01. doi: 10.1002/ijc.70029. PubMed PMID: 40583515.

Jeong SG, Choi IH, Lee S, Oh JY, Nair S, Lee JH, Kim C, Seo A, Choi WS, Low T, Lee JS, Jalan B. **Anisotropic strain relaxation-induced directional ultrafast carrier dynamics in RuO2 films.** Sci Adv. 2025;11(26):eadw7125. Epub 2025/06/27. doi: 10.1126/sciadv.adw7125. PubMed PMID: 40577474; PMCID: PMC12204164.

Napier EG, Cinco IR, Wagner SB, Stuart EV, Qiao Q, Taylor J, Stevenson B, Messaoudi I. **Borreliosis and doxycycline treatment disrupt gut microbiota and immune responses in nonhuman primates.** mBio. 2025;:e0143725. Epub 2025/06/27. doi: 10.1128/mbio.01437-25. PubMed PMID: 40576342.

Niloy KK, Horn J, Bhuiyan NH, Shaaban KA, Bhosale SS, Prisinzano TE, Thorson JS, Rohr J, Leggas M. **Preclinical Pharmacokinetic Evaluation of Mithramycin and Mithramycin SA Tryptophan-Conjugated Analog.** Pharmaceutics. 2025;17(6). Epub 2025/06/27. doi: 10.3390/pharmaceutics17060765. PubMed PMID: 40574077; PMCID: PMC12197275.

Pardo I, Finamor LPS, Marra PS, Ferreira JMG, Gutfreund MC, Hsieh MK, Li Y, Pinho JRR, Rizzo LV, Kobayashi T, Diekema DJ, Edmond MB, Bispo PJM, Marra AR. **Metagenomic Next-Generation Sequencing for the Diagnosis of Infectious Uveitis: A Comprehensive Systematic Review.** Viruses. 2025;17(6). Epub 2025/06/27. doi: 10.3390/v17060757. PubMed PMID: 40573347; PMCID: PMC12197381.

Strike W, Faleye TOC, Lubega B, Rockward A, Torabi S, Noble A, Banadaki MD, Keck J, Mugerwa H, Scotch M, Berry S. **Implementing Wastewater-Based Epidemiology for Long-Read Metagenomic Sequencing of Antimicrobial Resistance in Kampala, Uganda.** Microorganisms. 2025;13(6). Epub 2025/06/27. doi: 10.3390/microorganisms13061240. PubMed PMID: 40572128; PMCID: PMC12195534.

Holm RH, Chigwechokha P, Strike WD, Nyirenda RL, Tandwe C, Noble A, Keck J, Berry S. **Multi-pathogen wastewater surveillance in Malawi: An assessment of culture-based, RT-PCR, and long-read metagenomics methods with multiple ongoing outbreaks.** Sci Total Environ. 2025;992:179946. Epub 2025/06/26. doi: 10.1016/j.scitotenv.2025.179946. PubMed PMID: 40570391.

Halloran KM, Stenhouse C. **Key biochemical pathways during pregnancy in livestock: mechanisms regulating uterine and placental development and function.** Reprod Fertil. 2025;6(3). Epub 2025/06/26. doi: 10.1530/RAF-25-0056. PubMed PMID: 40569626; PMCID: PMC12243100.

Han Y, He F, Shao Q, Wang D, Xu D. **MTPrompt-PTM: A Multi-Task Method for Post-Translational Modification Prediction Using Prompt Tuning on a Structure-Aware Protein Language Model.** Biomolecules. 2025;15(6). Epub 2025/06/26. doi: 10.3390/biom15060843. PubMed PMID: 40563483; PMCID: PMC12190693.

Hou C, Garneau-Tsodikova S, Tsodikov OV. **Crystal structures and low-affinity complex formation of halogenase CtcP and FAD reductase CtcQ from the chlortetracycline biosynthetic pathway.** Biosci Rep. 2025;45(7). Epub 2025/06/24. doi: 10.1042/BSR20253185. PubMed PMID: 40548498.

Zhang Q, Peng J, Li Z, Rao X, Allison DB, Qiao Q, Zhang Z, Kong Y, Zhang Y, Wang R, Liu J, Wang X, Li C, Mao F, Shao Q, Gao T, Liu X. **PLK1-mediated PDHA1 phosphorylation drives mitochondrial dysfunction, mitophagy, and cancer progression in Cr(VI)-associated lung cancer.** J Biol Chem. 2025;:110406. Epub 2025/06/23. doi: 10.1016/j.jbc.2025.110406. PubMed PMID: 40544996.

Toledo-Teixeira DA, Parise PL, Pereira da Silva BB, Simeoni CL, Vieira A, Forato J, Martini MC, Amorim MR, Bispo-Dos-Santos K, Brunetti NS, Fabiano de Souza G, Coimbra LD, Fontoura MA, Muraro SP, Barbosa PP, Matheus VA, Hua X, Mendes de Moraes Vieira PM, Granja F, Lalwani P, Ramirez Vinolo MA, Milanez GP, Marques RE, Fielding CA, Marciel de Souza W, Farias ADS, Price DA, Diamond MS, Silveira ELV, Proenca-Modena JL. **MyD88 signalling in B cells and antibody responses during Oropouche virus-induced neurological disease in mice.** EBioMedicine. 2025;:105815. Epub 2025/06/21. doi: 10.1016/j.ebiom.2025.105815. PubMed PMID: 40541539.

Patel DP, Mynatt R, Logan A, Villacorta E, Mansoor AE. **Outcomes of Intravenous Ganciclovir Administration via an Outpatient Parenteral Antimicrobial Therapy Program: A Single-Center Experience.** Ann Pharmacother. 2025;:10600280251349570. Epub 2025/06/20. doi: 10.1177/10600280251349570. PubMed PMID: 40539855.

Mansoor AE, Edathadathil F, Suresh D, Krishna Y, George A, van Rheenen J, George IA, Kwon JH, Petersen EE, Westercamp M, Kumar A, Vayoth SO, Olsen MA, Leekha S, Singh SK, Warren DK, Gandra S. **Carbapenem-resistant *Enterobacterales* peri-rectal colonization prevalence on admission to two intensive care units in an academic hospital in India.** Antimicrob Steward Healthc Epidemiol. 2025;5(1):e120. Epub 2025/06/18. doi: 10.1017/ash.2025.10036. PubMed PMID: 40528929; PMCID: PMC12171904.

Dehghan Banadaki M, Torabi S, Strike WD, Phillips AR, Sakhaei A, Farahbakhsh S, Noble A, Keck JW, Berry SM. **Enabling SARS-CoV-2 Wastewater Surveillance Using an Integrated Microfluidic Chip.** Anal Chem. 2025;97(25):13140-13150. Epub 2025/06/17. doi: 10.1021/acs.analchem.5c00831. PubMed PMID: 40526856.

Orom H, Allard NC, Hay JL, McQueen A, Waters EA, Kiviniemi MT. **Brief video interventions increase screening intentions in people who avoid colorectal cancer information.** Health Psychol. 2025. Epub 2025/06/16. doi: 10.1037/hea0001521. PubMed PMID: 40522858.

Tay HC, Miller A, Moseley HNB, Beckley L, Pennell KG. **Systematic Quality Assurance/Quality Control Framework for a Volatile Organic Compound Real-Time Monitoring Instrument, Autonomous Rugged Optical Multigas Analyzer for VOCs.** ACS Omega. 2025;10(22):22627-22636. Epub 2025/06/16. doi: 10.1021/acsomega.4c10634. PubMed PMID: 40521549; PMCID: PMC12163652.

Sim MMS, Mollica MY, Alfar HR, Hollifield M, Chung DW, Fu X, Gandhapudi S, Coenen DM, Prakhya KS, Mahmood DFD, Banerjee M, Peng C, Li X, Thornton AC, Porterfield JZ, Sturgill JL, Sievert GA, Barton-Baxter M, Zheng Z, Campbell KS, Woodward JG, López JA, Whiteheart SW, Garvy BA, Wood JP. **Unfolded von Willebrand factor binds protein S and reduces anticoagulant activity.** Blood Vessel Thromb Hemost. 2025;2(1). Epub 2025/06/16. doi: 10.1016/j.bvth.2024.100030. PubMed PMID: 40519989; PMCID: PMC12162048.

Kulik GL, Umbleja T, Brown TT, Ribaudo HJ, Grinspoon SK, Schrack JA, Zanni MV, Diggs MR, Aberg JA, Fichtenbaum CJ, Malvestutto CD, Chu SM, Currier JS, Douglas PS, Bloomfield GS, Thornton AC, Floris-Moore MA, Goodenough E, Ellsworth GB, Burdo T, Erlandson KM. **Prognostic Factors of Physical Function Decline Among Middle-Aged Adults With HIV.** Open Forum Infect Dis. 2025;12(6):ofaf311. Epub 2025/06/16. doi: 10.1093/ofid/ofaf311. PubMed PMID: 40519631; PMCID: PMC12163370.

Mayer KP, Teixeira JP, González-Seguel F, Tran VQ, Gross JM, Horikawa-Strakovsky A, Pal CA, Shareef ZT, Puffer Israel H, Wen Y, Griffin BR, Neyra JA. **Acute skeletal muscle wasting in patients with acute kidney injury requiring continuous kidney replacement therapy: A prospective multicenter study.** J Crit Care. 2025;89:155142. Epub 2025/06/14. doi: 10.1016/j.jcrc.2025.155142. PubMed PMID: 40513259.

Lin W, Nagy PD. **Co-opted SUMO machinery promotes condensate formation associated with membranous replication organelles of a positive-strand RNA virus.** Proc Natl Acad Sci U S A. 2025;122(24):e2423465122. Epub 2025/06/13. doi: 10.1073/pnas.2423465122. PubMed PMID: 40512796; PMCID: PMC12184518.

Kuhn JH, Adkins S, Alkhovsky Альховский Сергей Владимирович SV, An 安雯霞 W, Avšič-Županc T, Ayllón MA, Bačnik K, Bahl J, Balkema-Buschmann A, Ballinger MJ, Beer M, Bejerman N, Bergeron É, Biedenkopf N, Blair CD, Blasdell KR, Bradfute SB, Briese T, Brown K, Brown PA, Buchholz UJ, Buchmeier MJ, Bukreyev A, Burt F, Calisher CH, Calvelage S, Cao 曹孟籍 M, Casas I, Chabi-Jesus C, Chandran K, Charrel RN, Crane A, Cuypers LN, Bó ED, de la Torre JC, de Souza WM, de Swart RL, Debat HJ, Dheilly NM, Di Paola N, Di Serio F, Dietzgen RG, Digiaro M, Drexler JF, Duprex WP, Dürrwald R, Easton AJ, Elbeaino T, Ergünay K, Eshak MIY, Feng 冯国忠 G, Firth AE, Fooks AR, Formenty PBH, Freitas-Astúa J, Freuling CM, Gadd T, Gago-Zachert S, García ML, García-Sastre A, Garrison AR, Goldberg TL, Gonzalez JJ, Goüy de Bellocq J, Griffiths A, Groschup MH, Gryseels S, Gutiérrez-Aguirre I, Günther S, Hammond J, Hepojoki J, Horie 堀江真行 M, Hume AJ, Hyndman TH, Höper D, Jiāng 姜道宏 D, Junglen S, Klempa B, Klingström J, Kondō 近藤秀樹 H, Koonin EV, Krupovic M, Kubota 久保田健嗣 K, Kurath G, Kutnjak D, Laenen L, Lambert AJ, Lee B, Li 李呈宇 C, Lǐ 李建荣 J, Li 李俊敏 JM, Lukashevich IS, Maes P, Marklewitz M, Marshall SH, Marzano SL, McCauley JW, Mehle N, Mirazimi A, Morikawa 守川俊幸 T, Mühlberger E, Müller T, Naidu R, Natsuaki 夏秋知英 T, Navarro B, Navarro JA, Neriya 煉谷裕太朗 Y, Netesov Нетёсов Сергей Викторович SV, Nicoloso VM, Neumann G, Nokireki T, Nowotny N, Nunes MRT, Ochoa-Corona FM, Palacios G, Pallás V, Papa Άννα Παπά A, Paraskevopoulou Σοφία Παρασκευοπούλου S, Parrish CR, Pauvolid-Corrêa A, Pecman A, Pérez DR, Pfaff F, Plemper RK, Postler TS, Radoshitzky SR, Ramos-González PL, Ravnikar M, Resende RO, Reuter G, Reyes CA, Rivarez MPS, Romanowski V, Rubbenstroth D, Rubino L, Runstadler JA, Ruiz-Padilla A, Sabanadzovic S, Salvato MS, Sasaya 笹谷孝英 I T, Schmaljohn CS, Schmidt-Posthaus H, Schwemmle M, Seljak G, Seuberlich T, Shi 施莽 M, Shimomoto 下元祥史 Y, Simmonds P, Sironi M, Smith DB, Smither S, Song 송진원 JW, Spann KM, Spengler JR, Stenglein MD, Takada 高田礼人 A, Takemura C, Tammiranta N, Tesh RB, Thornburg NJ, Tischler ND, Tomitaka 冨髙保弘 Y, Tomonaga 朝長啓造 K, Tordo N, Turina M, Tzanetakis Ιωάννης Ε Τζανετάκης IE, Vaira AM, van den Hoogen B, Vanmechelen B, Vasilakis Νίκος Βασιλάκης N, Verbeek M, von Bargen S, Vučurović A, Wada 和田治郎 J, Wahl V, Walker PJ, Wang 王飞 F, Whitfield AE, Williams JV, Wolf YI, Yanagisawa 栁澤広宣 H, Yang 杨彩霞 C, Ye 叶恭银 G, Yu 于美春 MC, Zerbini FM, Zhang S, Økland AL, Hughes HR. **Annual (2024) taxonomic update of RNA-directed RNA polymerase-encoding negative-sense RNA viruses (realm *Riboviria*: kingdom *Orthornavirae*: phylum *Negarnaviricota*).** J Gen Virol. 2025;106(6). Epub 2025/06/13. doi: 10.1099/jgv.0.002077. PubMed PMID: 40512168.

True HE, Hemati H, Geron R, Doratt BM, Malherbe DC, Cockerham C, O'Brien J, Messaoudi I. **Prenatal opioid exposure and maternal HCV infection impair microglia development and function: A patient-specific in vitro model.** Brain Behav Immun. 2025;129:206-220. Epub 2025/06/12. doi: 10.1016/j.bbi.2025.06.010. PubMed PMID: 40499844.

Cottler LB, Rosales LC, Seegulam VL, Bilello L, Striley CLW, Ravenswood A, Martusewicz ZJ, Murphy CE, Eder M, Mudd-Martin G, O'Neal LJ, Brown Speights J, Lopez-Quintero C, Everett KD, Strelnick AH, Aguilar-Gaxiola S, Kitzman H, McElroy JA, Millay TA, De Leon J, Warneke L, Weiss UK, O'Leary C. **Characteristics of persons with varying vaccination personas: data from the CDC-funded PANDEMIC project.** Discov Public Health. 2025;22(1):326. Epub 2025/06/11. doi: 10.1186/s12982-025-00703-6. PubMed PMID: 40496632; PMCID: PMC12146222.

Yun MK, Subramanian C, Miller K, Jackson P, Radka CD, Rock CO. **Isoleucine Binding and Regulation of *Escherichia coli* and *Staphylococcus aureus* Threonine Dehydratase (IlvA).** Biochemistry. 2025;64(13):2793-2810. Epub 2025/06/11. doi: 10.1021/acs.biochem.5c00168. PubMed PMID: 40494512; PMCID: PMC12224302.

Gelberg KH, El-Bassel N, Babineau DC, Vickers-Smith RA, Fanucchi LC, Childerhose JE, Hall ME, Dzurec ME, Villani J, Russo MR, LeBaron P, Marks KR, Lancaster KE, Gilbert L, David JL, Eggleston BS, Roeber CA, Oga EA, Chandler RK, Walsh SL. **Association of fentanyl test strip results and change in drug use behaviors: A multi-state, community-based observational study.** Int J Drug Policy. 2025;143:104867. Epub 2025/06/11. doi: 10.1016/j.drugpo.2025.104867. PubMed PMID: 40494014.

Zhou F, Sun J, Zhang R, Peng H, Ren Y, Zhu Y, Sun Y, Van Lanen SG, Chen W, Wang X. **Antimycobacterial Muraymycins Isolated from *Streptomyces* sp. NRRL 30475 Using OSMAC and Precursor-Feeding Strategies.** J Nat Prod. 2025;88(6):1463-1470. Epub 2025/06/10. doi: 10.1021/acs.jnatprod.5c00405. PubMed PMID: 40493378.

Tripathi A, Donkin RW, Miracle JS, Murphy RD, Gentry MS, Patwardhan A, Sinai AP. **Dynamics of amylopectin granule accumulation during the course of chronic *Toxoplasma* infection is linked to intra-cyst bradyzoite replication.** mSphere. 2025;:e0020525. Epub 2025/06/10. doi: 10.1128/msphere.00205-25. PubMed PMID: 40492719.

Kothalawala NL, Chandrasiri N, De Alwis Goonatilleke M, Rao KR, Shrestha S, Kodithuwakku US, Kim IY, Risko C, Seo A, Guiton BS, Yang F, Kim DY. **Green synthesis of ultrathin WS2 nanosheets for efficient hydrogen evolution reaction.** RSC Adv. 2025;15(24):19305-19317. Epub 2025/06/10. doi: 10.1039/d5ra00712g. PubMed PMID: 40491805; PMCID: PMC12146689.

Mojsiejczuk L, Whitlock F, Chen H, Magill C, Aranday-Cortes E, Bone J, Tong L, Da Silva Filipe A, Bryant N, Newton JR, Chambers TM, Reedy SE, Nemoto M, Yamanaka T, Hughes J, Murcia PR. **Multiple introductions of equine influenza virus into the United Kingdom resulted in widespread outbreaks and lineage replacement.** PLoS Pathog. 2025;21(6):e1013227. Epub 2025/06/09. doi: 10.1371/journal.ppat.1013227. PubMed PMID: 40489557.

Liu H, Soltani Gishini MF, Kurokawa T, Singh RM, Kachroo A, Kachroo P. **Role of cuticle, sterols, sphingolipids, and glycerolipids in plant defense.** J Exp Bot. 2025. Epub 2025/06/09. doi: 10.1093/jxb/eraf255. PubMed PMID: 40485252.

Slavova S, Villani J, Feaster DJ, Booth A, Holloway JL, Rock PJ, Hammerslag LR, Mack A, Knott CE, McCarthy JV, Talbert J, LaRochelle MR, Freisthler B, Gibbons BJ, Patts G, Bullard MJ, Walsh SL. **HEALing Communities Study: Data measures for supporting a community-based intervention to reduce opioid overdose deaths.** Drug Alcohol Depend. 2025;274:112738. Epub 2025/06/08. doi: 10.1016/j.drugalcdep.2025.112738. PubMed PMID: 40482517.

Al Musawa M, Kunz Coyne AJ, Alosaimy S, Lucas K, Schrack MR, Andrade J, Herbin SR, Biagi M, Pierce M, Molina KC, Perkins NB, Cosimi R, Kang-Birken L, King MA, Pullinger BM, Rojas LM, Bouchard J, Hobbs ALV, Agee J, Caniff KE, Van Helden SR, Veve MP, Rybak MJ. **Clinical Outcomes of Eravacycline in Patients Treated for Stenotrophomonas maltophilia Infections.** Infect Dis Ther. 2025. Epub 2025/06/07. doi: 10.1007/s40121-025-01170-x. PubMed PMID: 40481374.

Rao X, Allison DB, Flight RM, Lin P, He D, Li Z, Zhang Y, Wang R, Li C, Wang J, Wang X, Peng J, Fong KW, Shao Q, Wang C, Ali ES, Moseley HN, Liu X. **PLK1-mediated phosphorylation of PHGDH reprograms serine metabolism in advanced prostate cancer.** bioRxiv. 2025. Epub 2025/06/06. doi: 10.1101/2025.05.21.655274. PubMed PMID: 40475404; PMCID: PMC12139816.

Santiviparat S, Suthithanakom S, Bhanpattanakul S, Srisuwattanasagul S, Melde K, Stout TAE, Tharasanit T. **Development of a two-layer 3D equine endometrial tissue model using genipin-crosslinked collagen scaffolds and 3D printing.** Sci Rep. 2025;15(1):19759. Epub 2025/06/06. doi: 10.1038/s41598-025-04013-4. PubMed PMID: 40473768; PMCID: PMC12141639.

Smith AN, Alfar HR, Joshi S, Coenen DM, Lykins JT, Becker IC, Dong BE, Chanzu H, Peng C, Prakhya KS, Omali LAN, Pokrovskaya ID, Storrie B, Italiano JE, Whiteheart SW. **Uncovering the Role of the Hsp40 Family Member, Cysteine String Protein-α, in Mouse Platelets.** Blood Adv. 2025. Epub 2025/06/05. doi: 10.1182/bloodadvances.2024014870. PubMed PMID: 40472286.

Prantzalos ER, Chesser JP, Logan JS, McLaurin KA, Anderson CD, Gabbard JD, Severson WE, Palmer KE, Mullins BJ, Dwoskin L, Turner JR. **NMDA receptor antagonists mitigate COVID-19-induced neuroinflammation and improve survival in a mouse model.** Sci Rep. 2025;15(1):19603. Epub 2025/06/05. doi: 10.1038/s41598-025-00738-4. PubMed PMID: 40467606; PMCID: PMC12137712.

Mixson LS, Zule W, Ruderman SA, Feinberg J, Stopka TJ, Sibley AL, Walters SM, Bobashev G, Cook R, Hochstatter KR, Fahey CA, Ouellet LJ, Fredericksen R, Cooper HLF, Young AM, Zibbell J, Khoury D, Friedmann PD, Miller WC, Korthuis PT, Westergaard RP, Whitney BM, Tsui JI, Crane HM, Delaney J. **Prevalence and correlates of multiple injections per injection episode among people who inject drugs in rural U.S. communities.** Int J Drug Policy. 2025;143:104837. Epub 2025/06/01. doi: 10.1016/j.drugpo.2025.104837. PubMed PMID: 40449061.

Zhao Y, Wang P, Cheng Y, Tian S, Zuo J, Fang Q, Ling C, Palli SR, Chen X. **A testis-specific heat shock protein gene plays a critical role in male fertility in the fall armyworm.** Insect Biochem Mol Biol. 2025;181:104332. Epub 2025/05/31. doi: 10.1016/j.ibmb.2025.104332. PubMed PMID: 40447164.

Olney KB, Pai MP, Stadler LP, Burgess DS. **Evaluation of High-dose Daptomycin in Children With Methicillin-resistant Staphylococcus aureus Bacteremia: A Case Series.** Pediatr Infect Dis J. 2025. Epub 2025/05/29. doi: 10.1097/INF.0000000000004871. PubMed PMID: 40440712.

Sengodan K, Palli SR. **Histone and N-terminal acetyltransferases play important roles in female reproduction and embryogenesis of the red flour beetle Tribolium castaneum.** Insect Mol Biol. 2025. Epub 2025/05/29. doi: 10.1111/imb.13000. PubMed PMID: 40437965.

Pogany J, Inaba J-i, Liu Y, Nagy PD. **Screening bacterial effectors and human virus proteins in yeast to identify host factors driving tombusvirus RNA recombination: a role for autophagy and membrane phospholipid content.** J Virol. 2025;:e0166124. Epub 2025/05/27. doi: 10.1128/jvi.01661-24. PubMed PMID: 40422074.

Zarate YA, Abdelmoti L, Oh S, White A, Starks C, Au MG, Chen J, Weaver NK, Korotkov KV, Galperin E. **ACTC1 Variants Result in Isolated and Syndromic Cardiac Phenotypes.** Clin Genet. 2025. Epub 2025/05/27. doi: 10.1111/cge.14775. PubMed PMID: 40421724.

Darrington M, Solocinski J, Zhou SK, Lecheta MC, Palli SR, Chen YH, Teets NM. **Environmental factors affecting RNAi efficacy: Temperature but not plant cultivar influences Colorado potato beetle's response to insecticidal dsRNA.** Insect Mol Biol. 2025. Epub 2025/05/24. doi: 10.1111/imb.12996. PubMed PMID: 40410128.

Silwal A, Bohler R, Hunt T, Olvera RG, Lofwall MR, Cook CD, Marks KR, Bridden C, Freeman PR, Nouvong M, Fanucchi LC, El-Bassel N, Frazier LA, Walsh SL, Talbert JC. **Identifying and responding to policy-related barriers, facilitators, and misunderstandings in the HEALing communities study: A community-driven approach.** Int J Drug Policy. 2025;142:104851. Epub 2025/05/24. doi: 10.1016/j.drugpo.2025.104851. PubMed PMID: 40409135.

Mayer KP, Johnson AM, Smith DJ, Crandall CM, Johnson MD, Fresenko L E LE, Robinson CM, Robinson LE, Kaplan SL, Kumble S, Norris TL. **A Core Set of Outcome Measures to Assess Physical Function for Adults Participating in Physical Therapist Treatment in the Hospital: A Clinical Practice Guideline.** Phys Ther. 2025. Epub 2025/05/23. doi: 10.1093/ptj/pzaf076. PubMed PMID: 40403754.

Kim N, Song J, Cho J, Nguyen AT, Moon S, Seo A, Kim DW. **Optimized plasmonic enhancement and deformation reduction in MoS2 monolayers using Au-nanowire-embedded polymers.** Nanoscale. 2025. Epub 2025/05/22. doi: 10.1039/d5nr01147g. PubMed PMID: 40402170.

Kang Y, Pogany J, Nagy PD. **Co-opted ATG2 lipid transfer protein delivers phospholipids for biogenesis of viral replication organelles.** Autophagy Rep. 2024;3(1):2426437. Epub 2025/05/21. doi: 10.1080/27694127.2024.2426437. PubMed PMID: 40395515; PMCID: PMC11864722.

Pitcock C, Burgess DS, Olney KB. **Optimizing cefazolin dosing for central nervous system infections: insights from population pharmacokinetics and Monte Carlo simulations.** Antimicrob Agents Chemother. 2025;:e0185724. Epub 2025/05/20. doi: 10.1128/aac.01857-24. PubMed PMID: 40391958.

Nguyen LM, Gonzalez OA, Balian A, Kirakodu SS, Ebersole JL. **Transcriptomic Vascular and Endothelial Changes in Experimental Periodontitis in Nonhuman Primates.** Oral Dis. 2025. Epub 2025/05/20. doi: 10.1111/odi.15385. PubMed PMID: 40391573.

Soni S, Kennedy MA, Wang D, Li F. **The role and implication of rotavirus VP8∗ in viral infection and vaccine development.** Virology. 2025;609:110563. Epub 2025/05/17. doi: 10.1016/j.virol.2025.110563. PubMed PMID: 40378555.

Miracle DK, Hammerslag LR, Slavova S, Lei F, Talbert J, Moga DC, Freeman PR. **Changes in Hormonal Contraceptive Dispensing Trends Among Commercially Insured Kentucky Females During the COVID-19 Pandemic.** Pharmacoepidemiol Drug Saf. 2025;34(5):e70159. Epub 2025/05/16. doi: 10.1002/pds.70159. PubMed PMID: 40376766.

Staton M, Dickson MF, Levi MM, Tillson M, Freeman PR, Fanucchi LC, Webster JM, Oser CB. **Overdose education and naloxone distribution among women with a history of OUD transitioning to the community following jail release.** Health Justice. 2025;13(1):33. Epub 2025/05/15. doi: 10.1186/s40352-025-00337-5. PubMed PMID: 40369292; PMCID: PMC12080009.

Alsiraj Y, Huang H, Shoemaker R, Schanbacher B, Murphy M, Giannone P, Bauer JA. **Maternal Nutritional Programming: Sex-Specific Cardiovascular and Immune Outcomes Following Perinatal High-Fat Diet Exposure.** Nutrients. 2025;17(9). Epub 2025/05/14. doi: 10.3390/nu17091464. PubMed PMID: 40362773; PMCID: PMC12073119.

Vickers-Smith RA, Gelberg KH, Childerhose JE, Babineau DC, Chandler R, David JL, D'Costa L, Dzurec M, Eggleston B, Fallin-Bennett A, Fanucchi LC, Fernandez S, Gilbert J, Gilbert L, Hall ME, Hiltz BE, Konstan MW, Lancaster KE, Linas B, Marks KR, Michaels N, Miles J, Montero F, Ramsey Harden HJ, Roeber C, Russo MR, Taylor R, Theis MA, Villani J, Oga E, El-Bassel N, Walsh SL, Freisthler B. **Fentanyl Test Strip Use and Overdose Risk Reduction Behaviors Among People Who Use Drugs.** JAMA Netw Open. 2025;8(5):e2510077. Epub 2025/05/13. doi: 10.1001/jamanetworkopen.2025.10077. PubMed PMID: 40358945; PMCID: PMC12076174.

Padek M, Butcher R, deLacerda Allen R, Surratt HL, Subramain M, Tigges B, Eggleston AG, Presley JH, Matheson T, Sharareh N. **Examining rural health equity and impact through the translational science benefits model: outcomes from the CTSA Consortium of Rural States (CORES).** Front Public Health. 2025;13:1538494. Epub 2025/05/13. doi: 10.3389/fpubh.2025.1538494. PubMed PMID: 40356836; PMCID: PMC12066754.

de Souza WM, Lecuit M, Weaver SC. **Chikungunya virus and other emerging arthritogenic alphaviruses.** Nat Rev Microbiol. 2025. Epub 2025/05/08. doi: 10.1038/s41579-025-01177-8. PubMed PMID: 40335675.

Sangalli L, Manning E, Miller CS, Fricton J, Lok B, Boggero IA. **Testing an Educational Resource for Implementation in Temporomandibular Disorders Curriculum Through a Phase I Define and Refine Study.** J Dent Educ. 2025;:e13928. Epub 2025/05/07. doi: 10.1002/jdd.13928. PubMed PMID: 40329436.

Lynch EB, Kapur N, Goretsky T, Bradford EM, Vekaria H, Bhogoju S, Hassan SA, Pauw E, Avdiushko MG, Lee G, Gao T, Sullivan PG, Barrett TA. **Phosphatidylinositol 3-Kinase Signaling Enhances Intestinal Crypt Epithelial Cell Recovery after Radiation.** Am J Pathol. 2025. Epub 2025/05/03. doi: 10.1016/j.ajpath.2025.04.010. PubMed PMID: 40316215.

Sun H, Bu LA, Zhang XY, Zhang ZR, Su SC, Guo D, Gao CF, Palli SR, Champer J, Wu SF. **β2-tubulin regulates the development and migration of eupyrene sperm in Spodoptera frugiperda.** Cell Mol Life Sci. 2025;82(1):191. Epub 2025/05/02. doi: 10.1007/s00018-025-05722-9. PubMed PMID: 40314796; PMCID: PMC12048385.

Rivera ZC, González-Seguel F, Horikawa-Strakovsky A, Granger C, Sarwal A, Dhar S, Ntoumenopoulos G, Chen J, Bumgardner VKC, Parry SM, Mayer KP, Wen Y. **Development of an artificial intelligence powered software for automated analysis of skeletal muscle ultrasonography.** Sci Rep. 2025;15(1):14936. Epub 2025/04/30. doi: 10.1038/s41598-025-99522-7. PubMed PMID: 40301467; PMCID: PMC12041593.

Rahman MM, Zamakhaeva S, Rush JS, Chaton CT, Kenner CW, Hla YM, Tsui HT, Uversky VN, Winkler ME, Korotkov KV, Korotkova N. **Glycosylation of serine/threonine-rich intrinsically disordered regions of membrane-associated proteins in streptococci.** Nat Commun. 2025;16(1):4011. Epub 2025/04/30. doi: 10.1038/s41467-025-58692-8. PubMed PMID: 40301326; PMCID: PMC12041528.

Hasnat S, Rahman MM, Yeasmin F, Jubair M, Helmy YA, Islam T, Hoque MN. **Genomic and Computational Analysis Unveils Bacteriocin Based Therapeutics against Clinical Mastitis Pathogens in Dairy Cows.** Probiotics Antimicrob Proteins. 2025. Epub 2025/04/29. doi: 10.1007/s12602-025-10563-w. PubMed PMID: 40295467.

Fanucchi LC, Havens JR, Fahmy M, Young AM. **Injection-Related Infections and Self-treatment Practices Among People Who Inject Drugs in Rural Appalachia.** Open Forum Infect Dis. 2025;12(4):ofaf197. Epub 2025/04/28. doi: 10.1093/ofid/ofaf197. PubMed PMID: 40290562; PMCID: PMC12022472.

Cantrell AR, Hawkinson TR, Juras JA, Webb MB, Medina T, Ribas RA, Collins J, Bunnell AA, Young LEA, Markussen KH, Andres DA, Long JR, Vander Kooi CW, Smith BN, Sun RC, Gentry MS. **Protocol for high-power, brain-focused microwave fixation to define rodent metabolism.** STAR Protoc. 2025;6(2):103794. Epub 2025/04/27. doi: 10.1016/j.xpro.2025.103794. PubMed PMID: 40287939; PMCID: PMC12056379.

Jiao Y, Sengodan K, Chen J, Palli SR. **Role of histone methylation in insect development: KMT5A regulates ecdysteroid biosynthesis during metamorphosis of Tribolium castaneum.** Insect Biochem Mol Biol. 2025;180:104316. Epub 2025/04/27. doi: 10.1016/j.ibmb.2025.104316. PubMed PMID: 40287070; PMCID: PMC12066215.

Staton M, Tillson M, Terrill D, Oser C, Leukefeld C, Fanucchi L, McCollister K, Dickson MF, Winston E, Annett J, Webster JM. **Outcomes following two models of treatment linkage facilitation for women with a history of OUD following jail release.** J Subst Use Addict Treat. 2025;174:209702. Epub 2025/04/27. doi: 10.1016/j.josat.2025.209702. PubMed PMID: 40286856.

Fukuhara S, Suzuki T, Deeb GM, Ailawadi G, Patel HJ, Yang B, El-Dalati S. **Surgical management is associated with improved survival for endocarditis after transcatheter aortic valve replacement.** Ann Cardiothorac Surg. 2025;14(2):141-150. Epub 2025/04/24. doi: 10.21037/acs-2024-etavr-0103. PubMed PMID: 40270852; PMCID: PMC12013770.

Torkian M, Sabzalian MR, Mirlohi A, Schardl CL, Volaire F. **Host-endophyte (Epichloë occultans) interaction impacts on annual ryegrasses (Lolium persicum and Lolium rigidum): ecological and breeding implications.** Planta. 2025;261(5):115. Epub 2025/04/22. doi: 10.1007/s00425-025-04684-3. PubMed PMID: 40259029.

May A, Hanche-Olsen S, Goehring LS, Matiasek K, Jäderlund KH, Zablotski Y, Gröndahl G. **Motor pathway evaluation by transcranial magnetic stimulation in Swedish horses with acquired equine polyneuropathy.** Equine Vet J. 2025. Epub 2025/04/21. doi: 10.1111/evj.14506. PubMed PMID: 40257381.

Morenz AM, Nance RM, Mixson LS, Feinberg J, Smith G, Korthuis PT, Pho MT, Jenkins WD, Friedmann PD, Stopka TJ, Fanucchi LC, Miller WC, Go VF, Westergaard R, Seal DW, Zule WA, Crane HM, Delaney JA, Tsui JI. **Barriers to accessing medications for opioid use disorder among rural individuals.** Int J Drug Policy. 2025;140:104805. Epub 2025/04/20. doi: 10.1016/j.drugpo.2025.104805. PubMed PMID: 40252371.

Parry SM, Morris PE, Larkin J, Beach LJ, Mayer KP, Oliveira CC, McGinley J, Puthucheary ZA, Koye DN, Lamb KE, Denehy L, Granger CL. **Incidence and Associated Risk Factors for Falls in Adults Following Critical Illness: An Observational Study.** Crit Care Med. 2025. Epub 2025/04/18. doi: 10.1097/CCM.0000000000006668. PubMed PMID: 40249231.

Elattar KM, Ghoniem AA, Al-Otibi FO, Fakhouri AS, Helmy YA, Saber WIA, Hassan MAE, Elsayed A. **Eco-friendly synthesis of Ag/CeO2 and CuO/CeO2 nanocomposites using *Curcuma longa* extract and assessment of their antioxidant, antifungal, and cytotoxic activities.** RSC Adv. 2025;15(16):12100-12116. Epub 2025/04/18. doi: 10.1039/d5ra00739a. PubMed PMID: 40248230; PMCID: PMC12005080.

Hou C, Bhosale S, Yasuda K, Yetirajam R, Leggas M, Rohr J, Tsodikov OV. **The Position of Indole Methylation Controls the Structure, DNA Binding, and Cellular Functions of Mithramycin SA-Trp Analogues.** Chembiochem. 2025;:e2401084. Epub 2025/04/18. doi: 10.1002/cbic.202401084. PubMed PMID: 40246689.

Onaka J, Fukushima T, Yoshida A, Leedy N, Kobayashi T, Tomoto K, Aoki K. **Atypical progression of Group B Streptococcus infection: Subdural empyema in an adult with diabetes mellitus.** IDCases. 2025;40:e02212. Epub 2025/04/17. doi: 10.1016/j.idcr.2025.e02212. PubMed PMID: 40242476; PMCID: PMC12001129.

Malheiro DT, Parreira KCJ, Celeghini PD, Callado GY, Cotia ALF, Cendoroglo Neto M, Bragatte MAS, Negretto Schrarstzhaupt I, Sampaio V, Kobayashi T, Edmond MB, Marra AR. **COVID-19 Reinfections in the City of São Paulo, Brazil: Prevalence and Socioeconomic Factors.** Open Forum Infect Dis. 2025;12(4):ofaf181. Epub 2025/04/17. doi: 10.1093/ofid/ofaf181. PubMed PMID: 40242069; PMCID: PMC12000647.

Adegboyega A, Mudd-Martin G, Schoenberg NE, Dignan M. **HPV Self-Sampling Promotion Among African American (AA) and Sub-Saharan African (SAI) Immigrant Women: Adaptation and Usability Testing.** Int J Environ Res Public Health. 2025;22(3). Epub 2025/04/16. doi: 10.3390/ijerph22030317. PubMed PMID: 40238291; PMCID: PMC11941990.

Balasubramani S, Palli SR. **Identification of Histone and N-Terminal Acetyltransferases Required for Reproduction and Embryonic Development of Yellow Fever Mosquito, Aedes aegypti.** Arch Insect Biochem Physiol. 2025;118(4):e70055. Epub 2025/04/16. doi: 10.1002/arch.70055. PubMed PMID: 40235318.

Shrestha S, Souri M, Dietl CJ, Pärschke EM, Krautloher M, Calderon Ortiz GA, Minola M, Shi X, Boris AV, Hwang J, Khaliullin G, Cao G, Keimer B, Kim JW, Kim J, Seo A. **Tunable magnons of an antiferromagnetic Mott insulator via interfacial metal-insulator transitions.** Nat Commun. 2025;16(1):3592. Epub 2025/04/16. doi: 10.1038/s41467-025-58922-z. PubMed PMID: 40234464; PMCID: PMC12000505.

AlGain S, Marra AR, Kobayashi T, Marra PS, Celeghini PD, Hsieh MK, Shatari MA, Althagafi S, Alayed M, Ranavaya JI, Boodhoo NA, Meade NO, Fu D, Sampson MM, Rodriguez-Nava G, Zimmet AN, Ha D, Alsuhaibani M, Huddleston BS, Salinas JL. **Can we rely on artificial intelligence to guide antimicrobial therapy? A systematic literature review.** Antimicrob Steward Healthc Epidemiol. 2025;5(1):e90. Epub 2025/04/14. doi: 10.1017/ash.2025.47. PubMed PMID: 40226293; PMCID: PMC11986881.

Gilbert L, Chahine R, Chandler R, Feaster DJ, Kim E, Aldridge A, Bagley S, Balvanz P, Fernandez S, Rock P, Vickers-Smith RA, Villani J, Battaglia T, Brown J, Bush H, Chase RP, Collins T, D'Costa L, Damato-MacPherson C, David JL, Defiore-Hyrmer J, Freeman PR, Glasgow L, Hammerslag LR, Hotchkiss J, Hunt T, Hussain S, Kamanu V, Knott C, Knudsen HK, LaRochelle M, Laudate A, Lyons M, McMullan J, Nakayima J, Schackman BR, Slavova S, Tan S, Vandergrift N, Walters ST, Westgate PM, Wu E, Young AM, Zarkin GA, Freisthler B, Oga E, Samet JH, Walsh SL, Winhusen J, Jackson R, El-Bassel N. **The effectiveness of the communities that HEAL intervention on reducing non-fatal opioid overdoses: A prespecified secondary analysis of a waitlist cluster control randomized controlled trial.** Int J Drug Policy. 2025;140:104798. Epub 2025/04/13. doi: 10.1016/j.drugpo.2025.104798. PubMed PMID: 40220509.

Caniff KE, Rebold N, Xhemali X, Tran N, Eubank TA, Garey KW, Guo Y, Chang M, Barber KE, Krekel T, Biagi M, Kufel WD, Carr A, Hayes J, Carlson TJ, Frens J, Venugopalan V, Lucas K, Kunz Coyne AJ, Sanders J, Chandler E, Li R, Antosz K, Justo JA, Benefield R, Moore WJ, Ross J, Adams J, Albarillo F, Stefanos S, Hobbs ALV, Mercuro N, Raux B, Zeitler K, Rybak MJ. **Real-World Applications of Imipenem-Cilastatin-Relebactam: Insights From a Multicenter Observational Cohort Study.** Open Forum Infect Dis. 2025;12(4):ofaf112. Epub 2025/04/11. doi: 10.1093/ofid/ofaf112. PubMed PMID: 40212030; PMCID: PMC11983095.

Lim A, Shearer FM, Sewalk K, Pigott DM, Clarke J, Ghouse A, Judge C, Kang H, Messina JP, Kraemer MUG, Gaythorpe KAM, de Souza WM, Nsoesie EO, Celone M, Faria N, Ryan SJ, Rabe IB, Rojas DP, Hay SI, Brownstein JS, Golding N, Brady OJ. **The overlapping global distribution of dengue, chikungunya, Zika and yellow fever.** Nat Commun. 2025;16(1):3418. Epub 2025/04/11. doi: 10.1038/s41467-025-58609-5. PubMed PMID: 40210848; PMCID: PMC11986131.

Nguyen EV, Romanelli F, Islam MA, Hussain A. **Engaging student pharmacists in emergency and disaster preparedness education.** Curr Pharm Teach Learn. 2025;17(6):102346. Epub 2025/04/10. doi: 10.1016/j.cptl.2025.102346. PubMed PMID: 40209291.

Woods CR, Stadler LP, Arnold SR. **Adjunctive Corticosteroids for Acute Bacterial Arthritis? We Still Need More Data.** Hosp Pediatr. 2025;15(5):e209-e211. Epub 2025/04/07. doi: 10.1542/hpeds.2024-008282. PubMed PMID: 40189215.

Fan X, Li W, Oros J, Plante JA, Mitchell BM, Plung JS, Basu H, Nagappan-Chettiar S, Boeckers JM, Tjang LV, Mann CJ, Brusic V, Buck TK, Varnum H, Yang P, Malcolm LM, Choi SY, de Souza WM, Chiu IM, Umemori H, Weaver SC, Plante KS, Abraham J. **Molecular basis for shifted receptor recognition by an encephalitic arbovirus.** Cell. 2025. Epub 2025/04/06. doi: 10.1016/j.cell.2025.03.029. PubMed PMID: 40187345.

Malakooti Shijani SM, Kashkouli MB, Bezerra Gondim MJ, Timoney PJ, Masters AH, Sarai G, Compton CJ, Clark JD. **Orbital and ocular adnexal histiocytic tumors; a multidisciplinary literature review.** Orbit. 2025;:1-13. Epub 2025/04/04. doi: 10.1080/01676830.2025.2483975. PubMed PMID: 40183175.

Knudsen HK, Andrews-Higgins S, Back-Haddix S, Lofwall MR, Fanucchi L, Walsh SL. **Barriers and facilitators to scaling up medications for opioid use disorder in Kentucky: qualitative perspectives of treatment organization staff.** Subst Abuse Treat Prev Policy. 2025;20(1):15. Epub 2025/04/03. doi: 10.1186/s13011-025-00644-y. PubMed PMID: 40176107; PMCID: PMC11963284.

Adegboyega A, Wiggins A, Wuni A, Ickes M. **The Impact of a Human Papillomavirus Facebook-Based Intervention (#HPVVaxTalks) Among Young Black (African American and Sub-Saharan African Immigrants) Adults: Pilot Pre- and Poststudy.** JMIR Form Res. 2025;9:e69609. Epub 2025/04/02. doi: 10.2196/69609. PubMed PMID: 40173371; PMCID: PMC12037899.

Chan J, Truglio M, Schardl CL, Cox MP, Young CA, Ganley ARD. **An Alternative Self-Splicing Intron Lifecycle Revealed by Dynamic Intron Turnover in Epichloë Endophyte Mitochondrial Genomes.** Mol Biol Evol. 2025;42(4). Epub 2025/04/02. doi: 10.1093/molbev/msaf076. PubMed PMID: 40172118; PMCID: PMC12007492.

McGladrey M, Booty M, Stitzer S, Knudsen HK, Walsh SL, Goetz M, Mattingly H, Lofwall M, Fanucchi L, Oller D, Fallin-Bennett A, Oser CB. **The importance of contextually specific support relationships in implementing programs to link people to medication for opioid use disorder (MOUD) treatment during reentry from county jails.** Health Justice. 2025;13(1):20. Epub 2025/03/31. doi: 10.1186/s40352-025-00330-y. PubMed PMID: 40163160.

Hall E, Collis B, Alnabelsi T, Cao C, Johnson M, Gurley J, Strnad L, Reda H, London T, Ogburn E, Sekela M, Stoner BJ, El-Dalati S. **Management of Cardiovascular Implantable Electronic Device Infection Utilizing a Multidisciplinary Team: A Retrospective Cohort Study.** Open Forum Infect Dis. 2025;12(4):ofaf148. Epub 2025/03/31. doi: 10.1093/ofid/ofaf148. PubMed PMID: 40160346; PMCID: PMC11949750.

Ujas TA, Anderson KL, Lutshumba J, Hart SN, Turchan-Cholewo J, Hatton KW, Bachstetter AD, Nikolajczyk BS, Stowe AM. **Temporal Immune Profiling in the CSF and Blood of Patients with Aneurysmal Subarachnoid Hemorrhage.** J Leukoc Biol. 2025. Epub 2025/03/29. doi: 10.1093/jleuko/qiaf038. PubMed PMID: 40154495.

Mehanna LE, Boyd JD, Walker CG, Osborne AR, Grady ME, Berron BJ. **Functional assessment of migration and adhesion to quantify cancer cell aggression.** Soft Matter. 2025. Epub 2025/03/28. doi: 10.1039/d4sm01351d. PubMed PMID: 40151848.

Uprety T, Swan M, Kennedy L, Bryant U, Cassone L, Loynachan A, Janes J, Evely MM, Calvaruso FC, Quick M, Morgan J, Abdelrazek S, Lahmers K, Carter C, Erol E. **Retrospective investigation of 43 necropsy cases of Tyzzer disease in foals and partial genome sequence of Clostridium piliforme by shotgun metagenomics.** Vet Microbiol. 2025;304:110489. Epub 2025/03/27. doi: 10.1016/j.vetmic.2025.110489. PubMed PMID: 40138989.

Moretti R, Lim JT, Ferreira AGA, Ponti L, Giovanetti M, Yi CJ, Tewari P, Cholvi M, Crawford J, Gutierrez AP, Dobson SL, Ross PA. **Exploiting *Wolbachia* as a Tool for Mosquito-Borne Disease Control: Pursuing Efficacy, Safety, and Sustainability.** Pathogens. 2025;14(3). Epub 2025/03/27. doi: 10.3390/pathogens14030285. PubMed PMID: 40137770; PMCID: PMC11944716.

Neff RJ, Radka CD. **Exploring Oxylipins in Host-Microbe Interactions and Their Impact on Infection and Immunity.** Curr Issues Mol Biol. 2025;47(3). Epub 2025/03/26. doi: 10.3390/cimb47030190. PubMed PMID: 40136444.

Nixon J, Parli SE, Bishop JM, Olney KB, VanHoose J, Wiegand A, Ali D, Bradley C, Warriner ZD, Leonhard A, Schadler A, Olney WJ. **Assessment of Therapeutic Approaches: Necrotizing Soft Tissue Infections and the Choice Between Vancomycin + Clindamycin and Linezolid.** Surg Infect (Larchmt). 2025. Epub 2025/03/26. doi: 10.1089/sur.2024.281. PubMed PMID: 40135672.

Hou C, Tsodikov OV. **Structure and cooperative formation of a FLI1 filament on contiguous GGAA DNA sites.** Nucleic Acids Res. 2025;53(6). Epub 2025/03/25. doi: 10.1093/nar/gkaf205. PubMed PMID: 40131773.

Han QJ, Henson DM, Yucel E, Alnabelsi TS, El-Dalati SA, Paras ML. **Evaluation of the 2023 Duke-International Society of Cardiovascular Infectious Diseases Criteria in a Multicenter Cohort of Patients With Intravenous Drug Use: A Retrospective Study.** Open Forum Infect Dis. 2025;12(3):ofaf126. Epub 2025/03/24. doi: 10.1093/ofid/ofaf126. PubMed PMID: 40124200; PMCID: PMC11927774.

Kawanishi N, Kinoshita Y, Reedy SE, Garvey M, Kambayashi Y, Bannai H, Tsujimura K, Yamanaka T, Cullinane A, Chambers TM, Nemoto M. **A comparative evaluation of seven commercial human influenza virus antigen detection kits for the diagnosis of equine influenza.** Equine Vet J. 2025. Epub 2025/03/24. doi: 10.1111/evj.14500. PubMed PMID: 40123472.

Bauer MM, Ao T, Jacob JP, Ford MJ, Pescatore AJ, Power RF, Adedokun SA. **Performance, energy, and nutrient utilization benefits with exogenous enzyme supplementation of wheat-soybean meal-based diets fed to 22-day-old broiler chickens.** Poult Sci. 2025;104(5):105039. Epub 2025/03/24. doi: 10.1016/j.psj.2025.105039. PubMed PMID: 40121759.

Mishra P, Hood C, Moreno-Hay I, Miller CS, Okeson JP, Carlson CR. **Psychological profiles and sleep quality differences between patients with persistent idiopathic facial pain and trigeminal neuralgia: a 7-year retrospective study.** Oral Surg Oral Med Oral Pathol Oral Radiol. 2025. Epub 2025/03/22. doi: 10.1016/j.oooo.2025.02.004. PubMed PMID: 40118702.

Cui J, Li H, Ye D, Zhang G, Zhang Y, Yang L, Sim MMS, Wood JP, Wei Y, Li Z, Wu C. **Inhibiting NINJ1-dependent plasma membrane rupture protects against inflammasome-induced blood coagulation and inflammation.** Elife. 2025;12. Epub 2025/03/17. doi: 10.7554/eLife.91329. PubMed PMID: 40094828; PMCID: PMC11913443.

Collis B, El-Dalati S, Kobayashi T, Kawabori M. **Valve Surgery for Endocarditis Complicated by Preoperative Stroke: Does Early Surgery Increase Risk for Further Neurologic Complications?.** Ann Thorac Surg. 2025. Epub 2025/03/14. doi: 10.1016/j.athoracsur.2025.02.014. PubMed PMID: 40081559.

Zhu L, Havens JR, Rudolph AE, Young AM, Yazdi GE, Thompson WW, Hagan LM, Randall LM, Wang J, Earnest R, Nolen S, Linas BP, Salomon JA. **Hepatitis C virus transmission among people who inject drugs in rural United States: mathematical modeling study using stochastic agent-based network simulation (AJE-00824-2024).** Am J Epidemiol. 2025. Epub 2025/03/12. doi: 10.1093/aje/kwaf052. PubMed PMID: 40069947.

González-Seguel F, Tran VQ, Pal CA, Shareef ZT, Israel HP, Horikawa-Strakovsky A, Wen Y, Griffin BR, Neyra JA, Teixeira JP, Mayer KP. **Inter-rater reliability of muscle ultrasonography performed by multidisciplinary novice sonographers in the evaluation of critically ill patients with acute kidney injury requiring continuous kidney replacement therapy.** Ren Fail. 2025;47(1):2472990. Epub 2025/03/12. doi: 10.1080/0886022X.2025.2472990. PubMed PMID: 40069097; PMCID: PMC11899198.

Abou Ayana IAA, Al-Otibi FO, Elgarhy MR, Omar MM, El-Abbassy MZ, Khalifa SA, Helmy YA, Saber WIA. **Chemical, Physical, Microbial, and Sensory Properties of Innovative Sesame Milk Kefir, Focusing on the Ultrastructure of Kefir Grains.** ACS Omega. 2025;10(8):7752-7769. Epub 2025/03/10. doi: 10.1021/acsomega.4c08044. PubMed PMID: 40060880; PMCID: PMC11886653.

Talib MT, Nasir A, Kashif M, Rahman A, Rehman AU, Akbar H, Nadeem A, Howe DK, Azam MN. **Prevalence of anti-N. caninum and anti-N. hughesi antibodies in horses and associated risk factors in two selected equine zones of Punjab, Pakistan.** Vet Parasitol Reg Stud Reports. 2025;58:101211. Epub 2025/03/07. doi: 10.1016/j.vprsr.2025.101211. PubMed PMID: 40049998.

Kudsi R, Dawson DR, Gonzalez OA, Kutkut A, Tucci MA, Porras-Aguilar R, Momox AE, Al-Sabbagh M. **Relationship between bone quality and shrinkage in maxillary sinus augmentation using synthetic alloplast versus xenograft.** J Periodontal Implant Sci. 2024. Epub 2025/03/06. doi: 10.5051/jpis.2401320066. PubMed PMID: 40047187.

Lancaster KE, Estadt AT, Enderle MN, Korthuis TP, Young AM. **"I'm tired of seeing my friends die": Barriers and facilitators to participating in clinical trials among rural people who use drugs in the United States.** J Rural Health. 2025;41(1):e70009. Epub 2025/03/06. doi: 10.1111/jrh.70009. PubMed PMID: 40045014.

Pyzola SM, Dhakal P, Coyne MS, Grove JH, Vandiviere MM, Matocha CJ. **Transformation of organic matter under anoxic conditions in soils.** Sci Total Environ. 2025;970:178899. Epub 2025/03/05. doi: 10.1016/j.scitotenv.2025.178899. PubMed PMID: 40037227.

Liu H, Iyer LM, Norris P, Liu R, Yu K, Grant M, Aravind L, Kachroo A, Kachroo P. **Author Correction: Piperideine-6-carboxylic acid regulates vitamin B6 homeostasis and modulates systemic immunity in plants.** Nat Plants. 2025. Epub 2025/03/04. doi: 10.1038/s41477-025-01960-8. PubMed PMID: 40033073.

Shibly O, Chao JC, Albandar JM, Almehmadi N, Al-Sabbagh M. **Treatment of Gingival Recession Using the Pinhole Surgical Technique With Collagen Membrane Vs Coronally Advanced Flap Technique With Connective Tissue Graft: A Split-Mouth Randomized Clinical Trial.** Compend Contin Educ Dent. 2025;46(1):35-41. Epub 2025/02/26. PubMed PMID: 40009192.

Saleh M, El-Moghazy A, Elgohary AH, Saber WIA, Helmy YA. **Revolutionizing Nanovaccines: A New Era of Immunization.** Vaccines (Basel). 2025;13(2). Epub 2025/02/26. doi: 10.3390/vaccines13020126. PubMed PMID: 40006673; PMCID: PMC11860605.

Guerrero JF, Zimdars LL, Bruce JW, Becker JT, Evans EL, Torabi S, Striker R, Berry SM, Sherer NM. **Single-cell delineation of strain-specific HIV-1 Vif activities using dual reporter sensor cells and live cell imaging.** J Virol. 2025;:e0157924. Epub 2025/02/25. doi: 10.1128/jvi.01579-24. PubMed PMID: 39998123.

Leach M, Edmonds K, Ingram E, Dutch R, Wickramasinghe R, Chwatko M, Bhattacharyya D. **Membrane Filtration of Nanoscale Biomaterials: Model System and Membrane Performance Evaluation for AAV2 Viral Vector Clarification and Recovery.** Nanomaterials (Basel). 2025;15(4). Epub 2025/02/25. doi: 10.3390/nano15040310. PubMed PMID: 39997873; PMCID: PMC11858591.

Jegatheesan A, Micciche M, Ngo J, Bradley PJ, Howe DK, Dangoudoubiyam S. **Characterization of SnROP9, a rhoptry protein homologue of Sarcocystis neurona that is expressed in lifecycle stages lacking rhoptry organelles.** Int J Parasitol. 2025. Epub 2025/02/25. doi: 10.1016/j.ijpara.2025.02.001. PubMed PMID: 39993621.

Page AE, Rauber-Ramos AM, Humiston M, McPeek JL, Adam EN. **Initial investigation into the metabolic effects of intra-articular betamethasone on normal and insulin dysregulated horses.** J Equine Vet Sci. 2025;147:105404. Epub 2025/02/25. doi: 10.1016/j.jevs.2025.105404. PubMed PMID: 39993481.

Hao G, Zhou L, Liu H, Kachroo P, Hunt AG. **Revisiting CPSF30-mediated alternative polyadenylation in Arabidopsis thaliana.** PLoS One. 2025;20(2):e0319180. Epub 2025/02/24. doi: 10.1371/journal.pone.0319180. PubMed PMID: 39992955; PMCID: PMC11849871.

Van Sickels N, Wong JWH, Villacorta-Cari E, Lee SE, Fallin-Bennett K. **Executive Summary: State-of-the-Art Review: Data and Trust to Improve Care for Transgender and Gender-Diverse Patients.** Clin Infect Dis. 2025;80(2):245-246. Epub 2025/02/24. doi: 10.1093/cid/ciae481. PubMed PMID: 39989416.

Van Sickels N, Wong JWH, Villacorta-Cari E, Lee SE, Fallin-Bennett K. **State-of-the-Art Review: Data and Trust to Improve Care for Transgender and Gender-Diverse Patients.** Clin Infect Dis. 2025;80(2):e16-e30. Epub 2025/02/24. doi: 10.1093/cid/ciae480. PubMed PMID: 39989413.

Arya SK, Palli SR. **N-alpha-acetyltransferase 40 modulates ecdysteroid action through chromatin accessibility changes near the promoters of 20-hydroxyecdysone response genes in Tribolium Castaneum TcA cells.** Insect Biochem Mol Biol. 2025;179:104285. Epub 2025/02/23. doi: 10.1016/j.ibmb.2025.104285. PubMed PMID: 39986546.

Hemati H, Blanton MB, Koura J, Khadka R, Grant KA, Messaoudi I. **Chronic alcohol consumption enhances the differentiation capacity of hematopoietic stem and progenitor cells into osteoclast precursors.** bioRxiv. 2025. Epub 2025/02/20. doi: 10.1101/2025.02.05.636743. PubMed PMID: 39975302; PMCID: PMC11839057.

Hemati H, Blanton MB, True HE, Koura J, Khadka R, Grant KA, Messaoudi I. **Phenotypic and Functional Alterations in Peripheral Blood Mononuclear Cell-Derived Microglia in a Primate Model of Chronic Alcohol Consumption.** bioRxiv. 2025. Epub 2025/02/20. doi: 10.1101/2025.02.05.636708. PubMed PMID: 39975066; PMCID: PMC11839131.

Keovilay JA, Howard KC, Taylor KA, Khan S, Wurl SE, Szahaj MK, Sage T, Chandrika NT, Hou C, Tsodikov OV, Gibbins JM, Garneau-Tsodikova S, Kennedy DR. **Development of Zafirlukast Analogues for Improved Antithrombotic Activity Through Thiol Isomerase Inhibition.** Arterioscler Thromb Vasc Biol. 2025. Epub 2025/02/20. doi: 10.1161/ATVBAHA.124.321579. PubMed PMID: 39973747.

Otachi JK, Thrasher SS, Tate M, Surratt HL. **Perceived Social Isolation and Fentanyl Use Among Adults Who Inject Drugs in Rural Kentucky.** Soc Work Public Health. 2025;:1-16. Epub 2025/02/20. doi: 10.1080/19371918.2025.2468818. PubMed PMID: 39971784.

Tucker SG, May B, Liversedge M, Berry S, Keck JW, Hoover AG. **COVID-19 Risk and Crisis Communication Challenges and Opportunities: Qualitative Insights from Rural Wastewater Surveillance Partners.** Disaster Med Public Health Prep. 2025;19:e41. Epub 2025/02/19. doi: 10.1017/dmp.2025.36. PubMed PMID: 39965879.

Jenkins WD, Pho MT, Nance RM, Young AM, Zule W, Stopka TJ, Friedmann PD, Miller WC, Go VF, Korthuis PT, Westergaard R, Seal DW, Feinberg J, Smith GS, Crane HM, Tsui JI, Lanter T, Choudhary V. **Influence of insurance type on healthcare utilization among rural people who use drugs.** Drug Alcohol Depend. 2025;269:112542. Epub 2025/02/17. doi: 10.1016/j.drugalcdep.2024.112542. PubMed PMID: 39961160.

Liu H, Iyer LM, Norris P, Liu R, Yu K, Grant M, Aravind L, Kachroo A, Kachroo P. **Piperideine-6-carboxylic acid regulates vitamin B6 homeostasis and modulates systemic immunity in plants.** Nat Plants. 2025;11(2):263-278. Epub 2025/02/15. doi: 10.1038/s41477-025-01906-0. PubMed PMID: 39953358.

Hawk C, Hamdzah N, Dimond Z, Fields KA. **A platform supporting generation and isolation of random transposon mutants in *Chlamydia trachomatis*.** J Bacteriol. 2025;:e0050024. Epub 2025/02/14. doi: 10.1128/jb.00500-24. PubMed PMID: 39950807.

Jacob O, Hause B, Peters-Smith K, Adam EN, Page AE, Floyd C, Tucker C, Eertink LG, Wang D, Li F. **Safety and immunogenicity of a sarcoid vaccine in horses.** J Equine Vet Sci. 2025;146:105381. Epub 2025/02/13. doi: 10.1016/j.jevs.2025.105381. PubMed PMID: 39938758.

O'Kennedy MM, Reedy SE, Abolnik C, Khan A, Smith T, du Preez I, Olajide E, Daly J, Cullinane A, Chambers TM. **Protective efficacy of a bivalent equine influenza H3N8 virus-like particle vaccine in horses.** Vaccine. 2025;50:126861. Epub 2025/02/13. doi: 10.1016/j.vaccine.2025.126861. PubMed PMID: 39938315.

Owen AM, Gonzalez-Velez S, Keeble AR, Thomas NT, Fry CS. **Fork in the road: therapeutic and pathological actions for fibro-adipogenic progenitors following musculoskeletal injury.** J Physiol. 2025. Epub 2025/02/11. doi: 10.1113/JP286816. PubMed PMID: 39930980.

Argibay HD, Cardoso CW, de Souza WM, Souza RL, Pellizzaro M, Cunha GM, Clennon J, Weaver SC, Reis MG, Kitron U, Ribeiro GS. **High-resolution spatiotemporal analysis of chikungunya epidemics between 2019 and 2020 in Salvador, Brazil: a municipality-level transmission dynamics study.** Lancet Reg Health Am. 2025;43:101003. Epub 2025/02/10. doi: 10.1016/j.lana.2025.101003. PubMed PMID: 39925861; PMCID: PMC11804771.

Burus T, Hull PC, Lang Kuhs KA, Gao T, Brainson CF, Evers BM. **Examining Geographic Disparity: Variation in Cancer Outcomes within Appalachia.** J Am Coll Surg. 2025. Epub 2025/02/06. doi: 10.1097/XCS.0000000000001273. PubMed PMID: 39912550.

González-Seguel F, Mayer KP, Stapleton RD. **Concurrent nutrition and physical rehabilitation interventions for patients with critical illness.** Curr Opin Clin Nutr Metab Care. 2025;28(2):140-147. Epub 2025/02/06. doi: 10.1097/MCO.0000000000001099. PubMed PMID: 39912392; PMCID: PMC11803140.

Duff AJ, Otieno CO, Chen L, Mannion K, Topf MC, Michels BE, Butt J, Woodward BO, Lima MC, Erdem H, Leonard MA, Turner MM, Waterboer T, Sudenga SL, Lang Kuhs KA. **Human papillomavirus (HPV) type 16 E6 seroprevalence among men living with HIV without HPV-driven malignancies.** Cancer Prev Res (Phila). 2025. Epub 2025/02/05. doi: 10.1158/1940-6207.CAPR-24-0420. PubMed PMID: 39907040.

Mart MF, Gordon JI, González-Seguel F, Mayer KP, Brummel N. **Muscle Dysfunction and Physical Recovery After Critical Illness.** J Intensive Care Med. 2025;:8850666251317467. Epub 2025/02/05. doi: 10.1177/08850666251317467. PubMed PMID: 39905778.

Shorey-Kendrick LE, Crosland BA, Schabel MC, Messaoudi I, Guo M, Drake MG, Nie Z, Edenfield RC, Cinco I, Davies M, Graham JA, Hagen OL, McCarty OJT, McEvoy CT, Spindel ER, Lo JO. **Effects of maternal edible THC consumption on offspring lung growth and function in a rhesus macaque model.** Am J Physiol Lung Cell Mol Physiol. 2025. Epub 2025/02/04. doi: 10.1152/ajplung.00360.2024. PubMed PMID: 39903192.

Ebersole JL, Novak MJ, Cappelli D, Dawson DR, Gonzalez OA. **Use of Nonhuman Primates in Periodontal Disease Research: Contribution of the Caribbean Primate Research Center and Cayo Santiago Rhesus Colony.** Am J Primatol. 2025;87(2):e23724. Epub 2025/02/04. doi: 10.1002/ajp.23724. PubMed PMID: 39902755.

El-Khayat ES, Abouelela ME, Abdelhamid RA, Alorainy MS, Shaaban KA. **MACROLACTONES AND MACROLIDES FROM PLANT ENDOPHYTIC FUNGI, CHEMICAL SCAFFOLDS, BIOLOGICAL ACTIVITIES AND SPECTROSCOPY: A COMPREHENSIVE REVIEW.** Bull Pharm Sci. 2024;47(1):151-168. Epub 2025/02/04. doi: 10.21608/bfsa.2023.224497.1834. PubMed PMID: 39902252; PMCID: PMC11789693.

Surratt HL, Brown S, Burton AL, Cranford W, Fanucchi LC, Green C, Mersch SM, Rains R, Westgate PM. **Outcomes of a pilot randomized clinical trial testing brief interventions to increase HIV pre-exposure prophylaxis uptake among rural people who inject drugs attending syringe services programs.** Ther Adv Infect Dis. 2025;12:20499361251314766. Epub 2025/01/31. doi: 10.1177/20499361251314766. PubMed PMID: 39886694; PMCID: PMC11780651.

Jenkins WD, Beach LB, Schneider J, Friedman SR, Pho MT, Walters S, Ezell J, Young AM, Hennessy C, Miller WC, Go VF, Sun C, Seal DW, Westergaard RP, Crane HM, Fredericksen RJ, Ruderman SA, Fletcher S, Ma J, Delaney JA, Plaisance K, Feinberg J, Smith GS, Korthuis PT, Stopka TJ, Friedmann PD, Zule W, Winer M. **Sexual identity, sexual behavior, and drug use behaviors among people who use drugs in the rural U.S.** J Subst Use Addict Treat. 2025;171:209629. Epub 2025/01/29. doi: 10.1016/j.josat.2025.209629. PubMed PMID: 39875013.

Doratt BM, True HE, Sureshchandra S, Qiao Q, Rincon M, Marshall NE, Messaoudi I. **The immune landscape of fetal chorionic villous tissue in term placenta.** Front Immunol. 2024;15:1506305. Epub 2025/01/28. doi: 10.3389/fimmu.2024.1506305. PubMed PMID: 39872537; PMCID: PMC11769816.

Akbari F, Liu X, Hamedi F, Mohtasebi M, Chen L, Chen L, Yu G. **Programmable scanning diffuse speckle contrast imaging of cerebral blood flow.** Neurophotonics. 2025;12(1):015006. Epub 2025/01/28. doi: 10.1117/1.NPh.12.1.015006. PubMed PMID: 39872020; PMCID: PMC11770344.

Srinivas R, Gupta L, Harpole R, Moore D, Timoney P. **Unique presentation of cavernous sinus thrombosis in a paediatric patient.** BMJ Case Rep. 2025;18(1). Epub 2025/01/28. doi: 10.1136/bcr-2024-262080. PubMed PMID: 39870476; PMCID: PMC11791890.

Nikitina A, Kiriy D, Tyshevich A, Tychinin D, Antysheva Z, Sobol A, Kushnarev V, Shin N, Brown JH, Lewis J, Lang Kuhs KA, Ferris R, Wirth L, Kotlov N, Faden DL. **Viral Transcript and Tumor Immune Microenvironment-Based Transcriptomic Profiling of HPV-Associated Head and Neck Squamous Cell Carcinoma Identifies Subtypes Associated with Prognosis.** Viruses. 2024;17(1). Epub 2025/01/25. doi: 10.3390/v17010004. PubMed PMID: 39861794; PMCID: PMC11769425.

Stopka TJ, Nance RM, Mixson LS, Spencer H, Tsui JI, Leahy JM, Pho MT, DeJace J, Feinberg J, Young AM, Yang WT, Baltes A, Romo E, Brown RT, Nolte K, Miller WC, Zule WA, Jenkins WD, Delaney JA, Friedmann PD. **Serious Bacterial Infections and Hepatitis C Virus Among People Who Inject Drugs: A Syndemic or Intertwined Epidemics?.** Trop Med Infect Dis. 2025;10(1). Epub 2025/01/24. doi: 10.3390/tropicalmed10010017. PubMed PMID: 39852668; PMCID: PMC11769247.

Zhang H, Shamsunder MG, Bawa P, Carpio A, Hauser WA, Quinde-Herrera K, Jaramillo A, Kelvin EA. **How patient, infection, and cysticercus characteristics impact the evolution of *Taenia solium* larva in the human brain: a unique cyst-level analysis.** Parasitology. 2025;:1-47. Epub 2025/01/24. doi: 10.1017/S003118202400163X. PubMed PMID: 39851070.

Kabir A, Kelley WG, Glover C, Erol E, Helmy YA. **Phenotypic and genotypic characterization of antimicrobial resistance and virulence profiles of *Salmonella enterica* serotypes isolated from necropsied horses in Kentucky.** Microbiol Spectr. 2025;13(3):e0250124. Epub 2025/01/23. doi: 10.1128/spectrum.02501-24. PubMed PMID: 39846771; PMCID: PMC11878045.

Lathram WA, Neff RJ, Zalla AN, Brien JD, Subramanian V, Radka CD. **Dissecting the biophysical mechanisms of oleate hydratase association with membranes.** Front Mol Biosci. 2024;11:1504373. Epub 2025/01/23. doi: 10.3389/fmolb.2024.1504373. PubMed PMID: 39845901; PMCID: PMC11751051.

Rush JS, Zamakhaeva S, Murner NR, Deng P, Morris AJ, Kenner CW, Black I, Heiss C, Azadi P, Korotkov KV, Widmalm G, Korotkova N. **Structure and mechanism of biosynthesis of Streptococcus mutans cell wall polysaccharide.** Nat Commun. 2025;16(1):954. Epub 2025/01/23. doi: 10.1038/s41467-025-56205-1. PubMed PMID: 39843487; PMCID: PMC11754754.

Young AM, Jahangir T, Belton I, Freeman E, Livingston MD. **Likelihood of using a harm reduction vending machine among rural people who inject drugs in Appalachian Kentucky.** Int J Drug Policy. 2025;137:104709. Epub 2025/01/23. doi: 10.1016/j.drugpo.2025.104709. PubMed PMID: 39842394.

Walker B, Pollard E, Howard SP, Jones VM, O'Connor KL, Durbin EB, Hull PC, Jones SR, Adegboyega A, Wang X, Owen WA, Szabunio MM, Williams LB, Moore JX. **The Role of Race/Ethnicity on the Association between Neighborhood Deprivation and Breast Cancer Outcomes among Kentucky Breast Cancer Patients years 2010-2022.** Cancer Epidemiol Biomarkers Prev. 2025. Epub 2025/01/21. doi: 10.1158/1055-9965.EPI-24-1139. PubMed PMID: 39836446.

Elswick A, Fallin-Bennett A, Roper KL, Batty E, McLouth CJ, Stoops W, Surratt HL, Oser CB. **An exploration of desired abstinent and non-abstinent recovery outcomes among people who use methamphetamine.** Harm Reduct J. 2025;22(1):7. Epub 2025/01/18. doi: 10.1186/s12954-025-01155-6. PubMed PMID: 39825407; PMCID: PMC11740499.

Gishini MFS, Kachroo P, Hildebrand D. **Fatty acid desaturase 3-mediated α-linolenic acid biosynthesis in plants.** Plant Physiol. 2025;197(2). Epub 2025/01/17. doi: 10.1093/plphys/kiaf012. PubMed PMID: 39823389.

Menarim BC, Mok CH, Scoggin KE, Gornik A, Adam EN, Loux SC, MacLeod JN. **Fetal Cartilage Progenitor Cells in the Repair of Osteochondral Defects.** JB JS Open Access. 2025;10(1). Epub 2025/01/16. doi: 10.2106/JBJS.OA.24.00043. PubMed PMID: 39817152; PMCID: PMC11732651.

Imam IA, Bailey S, Wang D, Zeng S, Xu D, Shao Q. **Integrating Protein Language Model and Molecular Dynamics Simulations to Discover Antibiofouling Peptides.** Langmuir. 2025;41(1):811-821. Epub 2025/01/15. doi: 10.1021/acs.langmuir.4c04140. PubMed PMID: 39810350.

Fan X, Li W, Oros J, Plung JS, Plante JA, Basu H, Nagappan-Chettiar S, Boeckers JM, Tjang LV, Mann CJ, Brusic V, Buck TK, Varnum H, Yang P, Malcolm LM, Choi SY, de Souza WM, Chiu IM, Umemori H, Weaver SC, Plante KS, Abraham J. **Molecular basis for shifted receptor recognition by an encephalitic arbovirus.** bioRxiv. 2025. Epub 2025/01/13. doi: 10.1101/2025.01.01.631009. PubMed PMID: 39803583; PMCID: PMC11722376.

Ghoneem KM, Rashad EM, Al-Askar AA, Helmy YA, El-Gamal SMA, Ibrahim SD, Saber WIA. ***Alternaria radicina*; unveiling the cause, spread, and molecular basis of a novel coriander leaf blight disease in Egypt.** Heliyon. 2025;11(1):e41081. Epub 2025/01/13. doi: 10.1016/j.heliyon.2024.e41081. PubMed PMID: 39801957; PMCID: PMC11719364.

Santamaria MP, Mathias-Santamaria IF, Ferreira Bonafé AC, Gonzalez OA, Kirakodu S, Monteiro MF, Casarin RCV, Shaddox LM, Miguel MMV. **Microbiome and Inflammatory Biomarkers Associated With Palatal Wound Healing.** J Periodontal Res. 2025. Epub 2025/01/13. doi: 10.1111/jre.13373. PubMed PMID: 39801488.

Devilée LAC, Salama ABM, Miller JM, Reid JD, Ou Q, Baraka NM, Abou Farraj K, Jamal M, Nong Y, Rosengart TK, Andres D, Satin J, Mohamed TMA, Hudson JE, Abouleisa RRE. **Pharmacological or genetic inhibition of LTCC promotes cardiomyocyte proliferation through inhibition of calcineurin activity.** NPJ Regen Med. 2025;10(1):1. Epub 2025/01/12. doi: 10.1038/s41536-025-00389-z. PubMed PMID: 39799185; PMCID: PMC11724930.

Stopka TJ, Whitney BM, de Gijsel D, Brook DL, Friedmann PD, Taylor LE, Feinberg J, Young AM, Evon DM, Herink M, Westergaard R, Koepke R, Havens JR, Zule WA, Delaney JA, Pho MT. **Medicaid Policy and Hepatitis C Treatment Among Rural People Who Use Drugs.** Med Care. 2025;63(2):77-88. Epub 2025/01/10. doi: 10.1097/MLR.0000000000002095. PubMed PMID: 39791842; PMCID: PMC11731889.

Greteman BB, Cole A, Charlton ME, Shannon J, Kepka D, Paskett ED, Borrayo EA, Studts JL, Thompson HS, Scarinci I, Hinton LC, Chrischilles EA, Garcia-Auguste CJ, Christini K, Aker H, Plascak JJ, Harper FWK, Baskin ML, Bae S, Pandya V, Kim YI, Faseru B, Befort C, Kuo H, Dignan M, Canedo J, Champion V, Drake BF, Davis KL, Friedman DL, Elsaid MI, Mama SK, Cohn WF. **Cancer-related health behaviors during the COVID 19 pandemic in geographically diverse samples across the US.** BMC Cancer. 2025;25(1):50. Epub 2025/01/10. doi: 10.1186/s12885-024-13373-5. PubMed PMID: 39789488; PMCID: PMC11721185.

Ganguly S, Burikhanov R, Sviripa VM, Ellingson S, Jiang J, Gosser CM, Orren D, Goellner EM, Shenoy GG, Rao M, D'Orazio J, Brainson CF, Zhan CG, Spielmann PH, Watt DS, Rangnekar VM. **S6K1 is a Targetable Vulnerability in Tumors Exhibiting Plasticity and Therapy Resistance.** Int J Biol Sci. 2025;21(2):454-472. Epub 2025/01/09. doi: 10.7150/ijbs.96672. PubMed PMID: 39781466; PMCID: PMC11705648.

Mayrhofer BF, Iantas J, Noriler SA, Ponomareva LV, Thorson JS, Rohr J, Shaaban KA, Glienke C. **Highly diverse endophytic fungi from Serra do Amolar-Pantanal (Brazil) producing bioactive secondary metabolites against phytopathogens.** Front Microbiol. 2024;15:1501182. Epub 2025/01/09. doi: 10.3389/fmicb.2024.1501182. PubMed PMID: 39777144; PMCID: PMC11703833.

Wang P, Zhao Y, Cheng Y, Tian S, Bai Y, Zuo J, Palli SR, Chen X. **Knockout of a testis-specific gene cluster impairs male fertility in the fall armyworm, Spodoptera frugiperda.** Pest Manag Sci. 2025. Epub 2025/01/07. doi: 10.1002/ps.8634. PubMed PMID: 39764585.

Alameh S, Hoover AG, Keck JW, Berry SM, Goodpaster S, Tucker S, Goodin A. **Bringing Pandemic Science to the Classroom: Building Public Health Capacity at a Rural Kentucky High School.** Public Health Rep. 2025;:333549241302621. Epub 2025/01/03. doi: 10.1177/00333549241302621. PubMed PMID: 39749891; PMCID: PMC11699548.

Mehanna LE, Boyd JD, Remus-Williams S, Racca NM, Spraggins DP, Grady ME, Berron BJ. **Improvement of cellular pattern organization and clarity through centrifugal force.** Biomed Mater. 2025;20(2). Epub 2025/01/03. doi: 10.1088/1748-605X/ada508. PubMed PMID: 39746325; PMCID: PMC11823422.

Gaddelapati SC, Palli SR. **Histone deacetylases synergistically regulate juvenile hormone signaling in the yellow fever mosquito, Aedes aegypti.** Insect Biochem Mol Biol. 2025;177:104256. Epub 2025/01/02. doi: 10.1016/j.ibmb.2024.104256. PubMed PMID: 39742981.

Arnold LC, Stout TAE, Beitsma MM, Deelen CC, Rizzo M, Leemans B, Galli C, Colleoni S, Lazzari G, Barandalla M, Claes ANJ. **Marked blastomere herniation is the only post-thaw morphological characteristic associated with a reduced pregnancy rate for in vitro produced equine blastocysts.** Theriogenology. 2025;235:1-8. Epub 2025/01/02. doi: 10.1016/j.theriogenology.2024.12.028. PubMed PMID: 39742831.

Ebersole JL, Kirakodu SS, Zhang XD, Dawson D, Miller CS. **Salivary features of periodontitis and gingivitis in type 2 diabetes mellitus.** Sci Rep. 2024;14(1):30649. Epub 2024/12/28. doi: 10.1038/s41598-024-77434-2. PubMed PMID: 39730430; PMCID: PMC11680937.

Neff RJ, Lages PC, Donworth SK, Brien JD, Radka CD. **Independent evolution of oleate hydratase clades in Bacillales reflects molecular convergence.** Front Mol Biosci. 2024;11:1485485. Epub 2024/12/27. doi: 10.3389/fmolb.2024.1485485. PubMed PMID: 39726433; PMCID: PMC11669549.

Burus T, Hull PC, Lang Kuhs KA. **Head and Neck Cancer Mortality in the Appalachian Region.** JAMA Otolaryngol Head Neck Surg. 2024. Epub 2024/12/26. doi: 10.1001/jamaoto.2024.4514. PubMed PMID: 39724283.

Myint T, Soria J, Gao Y, Conejo Castillo MR, Arora V, Ribes JA. **Comparison of positive BioFire FilmArray meningitis/encephalitis (ME) panels, CSF cultures, CSF parameters, clinical presentation and in-patient mortality among patients with bacterial and fungal meningitis.** Microbiol Spectr. 2025;13(2):e0001424. Epub 2024/12/23. doi: 10.1128/spectrum.00014-24. PubMed PMID: 39714177; PMCID: PMC11792450.

Nowacki JS, Jones GS, D'Orazio SEF. ***Listeria monocytogenes* use multiple mechanisms to disseminate from the intestinal lamina propria to the mesenteric lymph nodes.** Microbiol Spectr. 2025;13(2):e0259524. Epub 2024/12/23. doi: 10.1128/spectrum.02595-24. PubMed PMID: 39714174; PMCID: PMC11792513.

Knudsen HK, Andrews-Higgins S, Back-Haddix S, Lofwall MR, Fanucchi L, Walsh SL. **Scaling up medications for opioid use disorder in Kentucky: Qualitative perspectives of treatment organizations.** Res Sq. 2024. Epub 2024/12/23. doi: 10.21203/rs.3.rs-5440415/v1. PubMed PMID: 39711557; PMCID: PMC11661295.

Keeble AR, Thomas NT, Balawender PJ, Brightwell CR, Gonzalez-Velez S, O'Daniel MG, Conley CE, Stone AV, Johnson DL, Noehren B, Jacobs CA, Fry CS, Owen AM. **CSF1-R inhibition attenuates posttraumatic osteoarthritis and quadriceps atrophy following ligament injury.** J Physiol. 2024. Epub 2024/12/22. doi: 10.1113/JP286815. PubMed PMID: 39709528.

Nagy PD, Pogany J, Kang Y. **Novel exploitation of autophagy by tombusviruses.** Virology. 2025;603:110363. Epub 2024/12/22. doi: 10.1016/j.virol.2024.110363. PubMed PMID: 39708618.

SantaCruz-Calvo S, Saraswat S, Kalantar GH, Zukowski E, Marszalkowski H, Javidan A, Gholamrezaeinejad F, Bharath LP, Kern PA, Zhang XD, Nikolajczyk BS. **A unique inflammaging profile generated by T cells from people with obesity is metformin resistant.** Geroscience. 2024. Epub 2024/12/22. doi: 10.1007/s11357-024-01441-4. PubMed PMID: 39708215.

Adegboyega A, Leshi O, Obielodan O, Wiggins AT, Williams LB. **Association of Cancer Risk Perception and Patient-provider Communication with Pap Test Among African American and Sub-Saharan African-born Women.** J Community Health. 2024. Epub 2024/12/20. doi: 10.1007/s10900-024-01432-8. PubMed PMID: 39702659.

Gnazzo V, Saleh H, Castro ÍA, Boon ACM, Pinto AK, Brien JD, López CB. **DDO-adjuvanted influenza A virus nucleoprotein mRNA vaccine induces robust humoral and cellular type 1 immune responses and protects mice from challenge.** mBio. 2025;16(2):e0358924. Epub 2024/12/18. doi: 10.1128/mbio.03589-24. PubMed PMID: 39692514; PMCID: PMC11796404.

Lee D, Oliveira FCC, Conant RT, Kim M. **Microbial community assembly across agricultural soil mineral mesocosms revealed by 16S rRNA gene amplicon sequencing data.** Data Brief. 2024;57:111125. Epub 2024/12/17. doi: 10.1016/j.dib.2024.111125. PubMed PMID: 39687379; PMCID: PMC11647130.

Mani R, Balu KE, Suzuki Y. **Deficiencies of Inducible Costimulator (ICOS) During Chronic Infection with *Toxoplasma gondii* Upregulate the CD28-Dependent Cytotoxicity of CD8+ T Cells and Their Effector Function Against Tissue Cysts of the Parasite.** Cells. 2024;13(23). Epub 2024/12/17. doi: 10.3390/cells13231998. PubMed PMID: 39682747; PMCID: PMC11640114.

Loos C, Castelein A, Vanzant E, Adam E, McLeod KR. **Nutraceutical Supplement Mitigates Insulin Resistance in Horses with a History of Insulin Dysregulation During a Challenge with a High-Starch Diet.** Animals (Basel). 2024;14(23). Epub 2024/12/17. doi: 10.3390/ani14233385. PubMed PMID: 39682351; PMCID: PMC11640219.

Crawford MW, Abdelwahab WM, Siram K, Parkins CJ, Harrison HF, Osman SR, Schweitzer D, Evans JT, Burkhart DJ, Pinto AK, Brien JD, Smith JL, Hirsch AJ. **The TLR7/8 agonist INI-4001 enhances the immunogenicity of a Powassan virus-like-particle vaccine.** bioRxiv. 2024. Epub 2024/12/16. doi: 10.1101/2024.11.28.625832. PubMed PMID: 39677812; PMCID: PMC11642962.

Fresenko LE, Rutherfurd C, Robinson LE, Robinson CM, Montgomery-Yates AA, Hogg-Graham R, Morris PE, Eaton TL, McPeake JM, Mayer KP. **Rehabilitation and Social Determinants of Health in Critical Illness Recovery Literature: A Systematic Review.** Crit Care Explor. 2024;6(12):e1184. Epub 2024/12/12. doi: 10.1097/CCE.0000000000001184. PubMed PMID: 39665534.

Smalls BL, Adegboyega AO, Ortz CL, Simon-Okube PE, Westgate PM, Schoenberg NE. **Assessing the relationship between multimorbidity, psychosocial variables, and clinical outcomes among older adults living in rural Appalachia.** J Health Psychol. 2024;:13591053241302131. Epub 2024/12/12. doi: 10.1177/13591053241302131. PubMed PMID: 39665410.

Wang D, Pourmirzaei M, Abbas UL, Zeng S, Manshour N, Esmaili F, Poudel B, Jiang Y, Shao Q, Chen J, Xu D. **S-PLM: Structure-Aware Protein Language Model via Contrastive Learning Between Sequence and Structure.** Adv Sci (Weinh). 2024;:e2404212. Epub 2024/12/12. doi: 10.1002/advs.202404212. PubMed PMID: 39665266.

Schardl CL, Florea S, Nagabhyru P, Pan J, Farman ML, Young CA, Rahnama M, Leuchtmann A, Sabzalian MR, Torkian M, Mirlohi A, Iannone LJ. **Chemotypic diversity of bioprotective grass endophytes based on genome analyses, with new insights from a Mediterranean-climate region in Isfahan Province, Iran.** Mycologia. 2024;:1-26. Epub 2024/12/11. doi: 10.1080/00275514.2024.2430174. PubMed PMID: 39661454.

Zinsli KA, Bhatraju EP, Feinberg J, Stopka TJ, Friedmann PD, Zule W, Cooper HLF, Young AM, Korthuis PT, Pho MT, Jenkins WD, Miller WC, Go VF, Seal DW, Westergaard RP, Fredericksen RJ, Delaney JA, Tsui JI. **Buprenorphine Injection Among Rural Persons Who Inject Drugs.** JAMA Netw Open. 2024;7(12):e2450108. Epub 2024/12/11. doi: 10.1001/jamanetworkopen.2024.50108. PubMed PMID: 39661390; PMCID: PMC11635541.

Murcia PR, Chambers TM, Daly JM, Pusterla N, Damdinjav B, Ankhanbaatar U, Mojsiejczuk L. **Should the equine community be concerned about the emergence of the H5N1 subtype of highly pathogenic avian influenza in US cattle?.** Equine Vet J. 2024. Epub 2024/12/11. doi: 10.1111/evj.14439. PubMed PMID: 39660460.

Wang W, Chen JS, He PY, Zhang MH, Cao HQ, Palli SR, Sheng CW. **Identification and pharmacological characterization of pH-sensitive chloride channels in the fall armyworm, Spodoptera frugiperda.** Insect Biochem Mol Biol. 2024;177:104243. Epub 2024/12/08. doi: 10.1016/j.ibmb.2024.104243. PubMed PMID: 39645056.

Ho J, Sukati S, Taylor T, Carter S, Fuller B, Marmo A, Sorge C, D'Orazio J, Butterfield DA, Bondada S, Weiss H, St Clair DK, Chaiswing L. **Extracellular vesicles released by ALL patients contain HNE-adducted proteins: implications of collateral damage.** Free Radic Biol Med. 2024. Epub 2024/12/07. doi: 10.1016/j.freeradbiomed.2024.12.006. PubMed PMID: 39643137.

Liu C, Wu MZ, Zheng ZJ, Fan ST, Tan JF, Jiao Y, Palli SR, Zhu GH. **Knockout BR-C induces premature expression of E93 thus triggering adult differentiation under larval morphology.** Pest Manag Sci. 2024. Epub 2024/12/06. doi: 10.1002/ps.8592. PubMed PMID: 39641237.

Nigam SR, Westgate PM, Slavova S, Vickers-Smith R, Thompson KL. **Community-level Factors and their Associations with Changing Opioid Overdose Fatality Rates in Kentucky, 2019-2021.** J Appalach Health. 2024;6(1-2):91-116. Epub 2024/12/06. doi: 10.13023/jah.0601.07. PubMed PMID: 39640240; PMCID: PMC11617026.

Lewis N, Eggleston B, Chandler RK, Goddard-Eckrich D, Luster JE, Beard DD, Rodgers E, Chahine R, Westgate PM, Benjamin SN, Holloway J, Clarke T, Lefebvre RC, Stein MD, Helme DW, Reynolds J, Walsh SL, Freedman D, El-Bassel N, Stephens K, Silwal A, Lofwall M, Childerhose JE, Surratt HL, Crockett BN, Farmer AL, David JL, Fanucchi L, Harness J, Wilburn B, Bursey K, Mattson K, Mann S, Jackson RD, Shadwick A, Calver K, Chassler D, Kimball J, Regan N, Samet JH, Sword-Cruz R, Slater MD. **Stigma and efficacy beliefs regarding opioid use disorder treatment and naloxone in communities participating in the HEALing Communities Study intervention.** PLoS One. 2024;19(12):e0308965. Epub 2024/12/04. doi: 10.1371/journal.pone.0308965. PubMed PMID: 39630633; PMCID: PMC11616859.

Flory M, Bravo P, Alam A. **Impact of gut microbiota and its metabolites on immunometabolism in colorectal cancer.** Immunometabolism (Cobham). 2024;6(4):e00050. Epub 2024/12/03. doi: 10.1097/IN9.0000000000000050. PubMed PMID: 39624362; PMCID: PMC11608621.

Delcher C, Smith AL, Romanelli F, Gaskill L, Surratt HL. **Oxymorphone and Oxycodone Pharmacy Purchases in US Counties: Prelude to the Largest Rural Human Immunodeficiency Virus Outbreak in US History.** Pharmacoepidemiol Drug Saf. 2024;33(12):e70066. Epub 2024/12/03. doi: 10.1002/pds.70066. PubMed PMID: 39623517.

Di J, Sheng T, Aurora R, Stocks-Candelaria J, Wei S, Lutz C, Yalniz FF, Zhang S. **The Validation of Digital PCR-Based Minimal Residual Disease Detection for the Common Mutations in IDH1 and IDH2 Genes in Patients with Acute Myeloid Leukemia.** J Mol Diagn. 2024. Epub 2024/12/01. doi: 10.1016/j.jmoldx.2024.11.002. PubMed PMID: 39615653.

Estadt AT, Kline D, Miller WC, Feinberg J, Hurt CB, Mixson LS, Friedmann PD, Lowe K, Tsui JI, Young AM, Cooper H, Korthuis PT, Pho MT, Jenkins W, Westergaard RP, Go VF, Brook D, Smith G, Rice DR, Lancaster KE. **Differences in hepatitis C virus (HCV) testing and treatment by opioid, stimulant, and polysubstance use among people who use drugs in rural U.S. communities.** Harm Reduct J. 2024;21(1):214. Epub 2024/11/30. doi: 10.1186/s12954-024-01131-6. PubMed PMID: 39614319; PMCID: PMC11606200.

Bradley H, Luisi N, Carter A, Pigott TD, Abramovitz D, Allen ST, Asher A, Austin C, Bartholomew TS, Baum M, Board A, Boodram B, Borquez A, Brookmeyer KA, Buchacz K, Burnett J, Cooper HLF, Crepaz N, Debeck K, Feinberg J, Fong C, Freeman E, Furukawa NW, Genberg B, Gorbach P, Hagan H, Hayashi K, Huriaux E, Hurley H, Keruly J, Kristensen K, Lai S, Martin NK, Mateu-Gelabert P, Mcclain GM, Mehta S, Mok WY, Reynoso M, Strathdee S, Torigian N, Weng CA, Westergaard R, Young A, Jarlais DCD. **Assessing COVID-19 pandemic impacts on the health of PWID using a novel data sharing model.** AIDS. 2024. Epub 2024/11/29. doi: 10.1097/QAD.0000000000004076. PubMed PMID: 39612241.

Sreenivasan CC, Li F, Wang D. **Emerging Threats of Highly Pathogenic Avian Influenza A (H5N1) in US Dairy Cattle: Understanding Cross-Species Transmission Dynamics in Mammalian Hosts.** Viruses. 2024;16(11). Epub 2024/11/27. doi: 10.3390/v16111703. PubMed PMID: 39599818; PMCID: PMC11598956.

Mani R, Suzuki Y. **The Absence of CXCL10 Activity Does Not Affect the Capability of CD8+ T Cells to Migrate and Eliminate the Tissue Cysts of *Toxoplasma gondii* from the Brains of Chronically Infected Mice.** Microorganisms. 2024;12(11). Epub 2024/11/27. doi: 10.3390/microorganisms12112172. PubMed PMID: 39597561; PMCID: PMC11596037.

Chen X, Koo J, Kumar Arya S, Palli SR. **Chronologically inappropriate morphogenesis (*Chinmo*) is required for maintenance of larval stages of fall armyworm.** Proc Natl Acad Sci U S A. 2024;121(49):e2411286121. Epub 2024/11/26. doi: 10.1073/pnas.2411286121. PubMed PMID: 39589873.

Ballard AM, Kesich Z, Crane HM, Feinberg J, Friedmann PD, Go VF, Jenkins WD, Korthuis PT, Miller WC, Pho MT, Seal DW, Smith GS, Stopka TJ, Westergaard RP, Zule WA, Young AM, Cooper HL. **Rural houselessness among people who use drugs in the United States: Results from the National Rural Opioid Initiative.** Drug Alcohol Depend. 2024;266:112498. Epub 2024/11/25. doi: 10.1016/j.drugalcdep.2024.112498. PubMed PMID: 39580899.

Sancler-Silva YFR, Papa FO, Esteller-Vico A, Silva-Junior E, Oliveira TES, El-Sheikh Ali H, Boakari YL, Freitas MSE, Ball BA. **Beneficial effects of pentoxifylline on spermatogenesis and germ cell apoptosis in stallions subjected to scrotal heat stress.** Theriogenology. 2024;233:32-41. Epub 2024/11/23. doi: 10.1016/j.theriogenology.2024.11.004. PubMed PMID: 39577270.

Tamminga SM, Schipper K, Murner N, Davies M, Berkhout P, Bessen DE, Hendriks A, Korotkova N, Pannekoek Y, van Sorge NM. **Natural variation of the streptococcal Group A carbohydrate biosynthesis genes impacts host-pathogen interaction.** bioRxiv. 2024. Epub 2024/11/22. doi: 10.1101/2024.11.04.621835. PubMed PMID: 39574630; PMCID: PMC11580967.

Stupar RM, Locke AM, Allen DK, Stacey MG, Ma J, Weiss J, Nelson RT, Hudson ME, Joshi T, Li Z, Song Q, Jedlicka JR, MacIntosh GC, Grant D, Parrott WA, Clemente TE, Stacey G, An YC, Aponte-Rivera J, Bhattacharyya MK, Baxter I, Bilyeu KD, Campbell JD, Cannon SB, Clough SJ, Curtin SJ, Diers BW, Dorrance AE, Gillman JD, Graef GL, Hancock CN, Hudson KA, Hyten DL, Kachroo A, Koebernick J, Libault M, Lorenz AJ, Mahan AL, Massman JM, McGinn M, Meksem K, Okamuro JK, Pedley KF, Rainey KM, Scaboo AM, Schmutz J, Song BH, Steinbrenner AD, Stewart-Brown BB, Toth K, Wang D, Weaver L, Zhang B, Graham MA, O'Rourke JA. **Soybean genomics research community strategic plan: A vision for 2024-2028.** Plant Genome. 2024;:e20516. Epub 2024/11/22. doi: 10.1002/tpg2.20516. PubMed PMID: 39572930.

Burus T, Patel MI, Christian WJ, Huang B, Lang Kuhs KA. **Sex-based differences in histologic lung cancer incidence trends in the United States, 2005-2019.** Int J Cancer. 2024. Epub 2024/11/22. doi: 10.1002/ijc.35268. PubMed PMID: 39572890.

Choi IH, Jeong SG, Jeong DG, Seo A, Choi WS, Lee JS. **Engineering the Coherent Phonon Transport in Polar Ferromagnetic Oxide Superlattices.** Adv Sci (Weinh). 2024;:e2407382. Epub 2024/11/21. doi: 10.1002/advs.202407382. PubMed PMID: 39569698.

Chun J, Kim SM, Ko G, Shin HJ, Kim M, Cho HU. **Thermophilic aerobic digestion using aquaculture sludge from rainbow trout aquaculture facilities: effect of salinity.** Front Microbiol. 2024;15:1488041. Epub 2024/11/21. doi: 10.3389/fmicb.2024.1488041. PubMed PMID: 39569003; PMCID: PMC11576446.

Santhanam H, Muthukumarasamy N, Hsieh MK, Brust K, Wellington M, Naito T, Samuelson RJ, Marra AR, Kobayashi T. **Systematic review and meta-analysis of the impact of infectious diseases consultation on outcomes of *Staphylococcus aureus* bacteremia in children.** Antimicrob Steward Healthc Epidemiol. 2024;4(1):e199. Epub 2024/11/20. doi: 10.1017/ash.2024.450. PubMed PMID: 39563922; PMCID: PMC11574588.

Kingren MS, Keeble AR, Galvan-Lara AM, Ogle JM, Ungvári Z, St Clair DK, Butterfield TA, Owen AM, Fry CS, Patel SP, Saito H. **Post-sepsis chronic muscle weakness can be prevented by pharmacological protection of mitochondria.** Mol Med. 2024;30(1):221. Epub 2024/11/20. doi: 10.1186/s10020-024-00982-w. PubMed PMID: 39563237; PMCID: PMC11577827.

Sahoo BR, Deng X, Wong EL, Clark N, Yang H, Subramanian V, Guzman BB, Harris SE, Dehury B, Miyashita E, Hoff JD, Kocaman V, Saito H, Dominguez D, Plavec J, Bardwell JCA. **Visualizing liquid-liquid phase transitions.** bioRxiv. 2024. Epub 2024/11/18. doi: 10.1101/2023.10.09.561572. PubMed PMID: 39554013; PMCID: PMC11565804.

Gnazzo V, Saleh H, Castro Í, Boon ACM, Pinto AK, Brien JD, López CB. **DDO-adjuvanted influenza A virus nucleoprotein mRNA vaccine induces robust humoral and cellular type 1 immune responses and protects mice from challenge.** bioRxiv. 2024. Epub 2024/11/18. doi: 10.1101/2024.10.27.620508. PubMed PMID: 39553933; PMCID: PMC11565765.

Abo-Neima SE, Elsehly EM, Al-Otibi FO, El-Metwally MM, Helmy YA, Eldadamony NM, Saber WIA, El-Morsi AA. **Simplex-lattice design and decision tree optimization of endophytic *Trichoderma*-multi-walled carbon nanotube composite for enhanced methylene blue removal.** Heliyon. 2024;10(21):e39949. Epub 2024/11/18. doi: 10.1016/j.heliyon.2024.e39949. PubMed PMID: 39553556; PMCID: PMC11566670.

Brandon H, Kebodeaux C, Stallworth S, Autry E, Jones M, Bosley T, Schadler A, Romanelli F. **Perceptions of Pharmacy Faculty Regarding Factors Contributing to Declining First-Time NAPLEX Pass Rates.** Am J Pharm Educ. 2024;:101336. Epub 2024/11/17. doi: 10.1016/j.ajpe.2024.101336. PubMed PMID: 39549746.

Fresenko LE, Rivera ZC, Parry SM, Mayer KP. **Post-Intensive Care Syndrome: Physical Impairments and Function.** Crit Care Clin. 2025;41(1):1-20. Epub 2024/11/16. doi: 10.1016/j.ccc.2024.08.004. PubMed PMID: 39547718.

Bashar MAE, Hamed A, El-Tabakh MAM, Hashem AH, Zaki AA, Al-Askar AA, Abou-Amra ES, El-Beeh ME, Mehany ABM, Shaaban M, Abdelaziz AM, Shaaban KA, Hasaballah AI. **Anticancer, antimicrobial, insecticidal and molecular docking of sarcotrocheliol and cholesterol from the marine soft coral Sarcophyton Trocheliophorum.** Sci Rep. 2024;14(1):28028. Epub 2024/11/15. doi: 10.1038/s41598-024-75446-6. PubMed PMID: 39543150; PMCID: PMC11564636.

Roszkowski SC, Babalonis S, Coe MA, Nuzzo PA, Lofwall MR, Fanucchi LC, Walsh SL. **Residual next-day effects of alprazolam on psychomotor performance and simulated driving in healthy normal adults.** Exp Clin Psychopharmacol. 2024. Epub 2024/11/14. doi: 10.1037/pha0000746. PubMed PMID: 39541522.

Eertink LG, Swope M, Uprety T, Sreenivasan C, Page AE, Adam EN, Wang D, Li F. **Characteristics of maternal antibodies transferred to foals raised through maternal equine rotavirus A vaccination.** Vet Microbiol. 2024;299:110304. Epub 2024/11/14. doi: 10.1016/j.vetmic.2024.110304. PubMed PMID: 39536689.

Gibson OL, Zhao S, Adam E, Stowe CJ. **National survey reveals elastic price sensitivity for select equine veterinary services.** J Am Vet Med Assoc. 2024;:1-5. Epub 2024/11/14. doi: 10.2460/javma.24.09.0576. PubMed PMID: 39536458.

Smalls BL, Adegboyega A, Ortz C, Combs E, Azam T, Westgate PM, Schoenberg N. **Assessing Chronic Pain Among Adults Diagnosed with Diabetes Residing in Rural Appalachia.** J Appalach Health. 2024;6(3):79-92. Epub 2024/11/14. doi: 10.13023/jah.0603.07. PubMed PMID: 39534733; PMCID: PMC11552677.

Herbst AC, Coleman MC, Macon EL, Harris PA, Adams AA. **Demographics and health of U.S. senior horses used in competitions.** Equine Vet J. 2024. Epub 2024/11/13. doi: 10.1111/evj.14438. PubMed PMID: 39533744.

Ghosh DD, McDonald H, Dutta R, Krishnan K, Thilakan J, Paul MK, Arya N, Rao M, Rangnekar VM. **Prognostic Indicators for Precision Treatment of Non-Small Cell Lung Carcinoma.** Cells. 2024;13(21). Epub 2024/11/13. doi: 10.3390/cells13211785. PubMed PMID: 39513892; PMCID: PMC11545304.

de Souza WM, Calisher CH, Carrera JP, Hughes HR, Nunes MRT, Russell B, Tilson-Lunel NL, Venter M, Xia H. **ICTV Virus Taxonomy Profile: *Peribunyaviridae* 2024.** J Gen Virol. 2024;105(11). Epub 2024/11/13. doi: 10.1099/jgv.0.002034. PubMed PMID: 39508735.

Neal HE, Barrett CT, Edmonds K, Moncman CL, Dutch RE. **Examination of respiratory syncytial virus fusion protein proteolytic processing and roles of the P27 domain.** J Virol. 2024;:e0163924. Epub 2024/11/13. doi: 10.1128/jvi.01639-24. PubMed PMID: 39508603.

Nelson Z, Tarik Aslan A, Beahm NP, Blyth M, Cappiello M, Casaus D, Dominguez F, Egbert S, Hanretty A, Khadem T, Olney K, Abdul-Azim A, Aggrey G, Anderson DT, Barosa M, Bosco M, Chahine EB, Chowdhury S, Christensen A, de Lima Corvino D, Fitzpatrick M, Fleece M, Footer B, Fox E, Ghanem B, Hamilton F, Hayes J, Jegorovic B, Jent P, Jimenez-Juarez RN, Joseph A, Kang M, Kludjian G, Kurz S, Lee RA, Lee TC, Li T, Maraolo AE, Maximos M, McDonald EG, Mehta D, Moore JW, Nguyen CT, Papan C, Ravindra A, Spellberg B, Taylor R, Thumann A, Tong SYC, Veve M, Wilson J, Yassin A, Zafonte V, Mena Lora AJ. **Guidelines for the Prevention, Diagnosis, and Management of Urinary Tract Infections in Pediatrics and Adults: A WikiGuidelines Group Consensus Statement.** JAMA Netw Open. 2024;7(11):e2444495. Epub 2024/11/04. doi: 10.1001/jamanetworkopen.2024.44495. PubMed PMID: 39495518.

Imam IA, Al Adawi S, Liu X, Ellingson S, Brainson CF, Moseley HNB, Zinner R, Zhang S, Shao Q. **L858R/L718Q and L858R/L792H Mutations of EGFR Inducing Resistance Against Osimertinib by Forming Additional Hydrogen Bonds.** Proteins. 2024. Epub 2024/11/04. doi: 10.1002/prot.26761. PubMed PMID: 39494831.

Keady JV, Hessing MC, Songrady JC, McLaurin K, Turner JR. **Sex differences in contextual fear conditioning and extinction after acute and chronic nicotine treatment.** Biol Sex Differ. 2024;15(1):88. Epub 2024/11/04. doi: 10.1186/s13293-024-00656-6. PubMed PMID: 39482781; PMCID: PMC11529327.

Farabi AA, Hossain H, Brishty KA, Rahman MH, Rahman M, Siddiqui MSI, Atikuzzaman M, Saleh A, Binsuwaidan R, Selim HMRM, Noreddin A, Helmy YA, Rahman MM, Barua H, El Zowalaty ME. **Prevalence, Risk Factors, and Antimicrobial Resistance of *Staphylococcus* and *Streptococcus* Species Isolated from Subclinical Bovine Mastitis.** Foodborne Pathog Dis. 2024. Epub 2024/10/31. doi: 10.1089/fpd.2024.0097. PubMed PMID: 39479784.

Kadayat TM, Kwiatkowski S, Ortiz D, Shoeran G, Hammill JT, Kim HS, Cholewo J, Landfear SM, Kiplin Guy R. **Synthesis and biological evaluation of 4,7,9-trisubstituted benzoxazepines as antileishmanial agents.** Bioorg Med Chem Lett. 2024;114:130003. Epub 2024/10/31. doi: 10.1016/j.bmcl.2024.130003. PubMed PMID: 39477128.

Otachi JK, Thrasher SS, Surratt HL. **Violence Exposure, Mental Distress, Substance Use Behaviors, and Overdose Experiences Among People who Inject Drugs.** J Soc Work Pract Addict. 2024;24(3):270-282. Epub 2024/10/30. doi: 10.1080/1533256x.2023.2164969. PubMed PMID: 39474319; PMCID: PMC11521365.

France K, Miller CS. **Use of Biological Information in the Diagnostic Process: A Glance into the Future of Dentistry.** Oral Surg Oral Med Oral Pathol Oral Radiol. 2024. Epub 2024/10/30. doi: 10.1016/j.oooo.2024.09.009. PubMed PMID: 39472245.

Lee S, Zhang X, Abdollahi P, Barone MR, Dong C, Yoo YJ, Song MK, Lee D, Ryu JE, Choi JH, Lee JH, Robinson JA, Schlom DG, Kum HS, Chang CS, Seo A, Kim J. **Route to Enhancing Remote Epitaxy of Perovskite Complex Oxide Thin Films.** ACS Nano. 2024;18(45):31225-31233. Epub 2024/10/29. doi: 10.1021/acsnano.4c09445. PubMed PMID: 39471046.

Gusovsky A, Slade E, Forrest JM, Henderson D, Abdel-Latif A, Venditto VJ, Delcher C, Feola DJ. **Azithromycin Exposure in a 10-Day Window of Myocardial Infarction and Short- and Long-Term Outcomes.** JACC Adv. 2024;3(11):101337. Epub 2024/10/29. doi: 10.1016/j.jacadv.2024.101337. PubMed PMID: 39469610; PMCID: PMC11513797.

Clark JA, Burgess DS, Moga DC. **The effect of carbapenem-resistant versus carbapenem-susceptible *Enterobacterales* infections on patient outcomes at an academic medical center.** Antimicrob Steward Healthc Epidemiol. 2024;4(1):e189. Epub 2024/10/28. doi: 10.1017/ash.2024.445. PubMed PMID: 39465213; PMCID: PMC11504081.

Unêda-Trevisoli SH, Dirk LMA, Carlos Bezerra Pereira FE, Chakrabarti M, Hao G, Campbell JM, Bassetti Nayakwadi SD, Morrison A, Joshi S, Perry SE, Sharma V, Mensah C, Willard B, de Lorenzo L, Afroza B, Hunt AG, Kawashima T, Vaillancourt L, Pinheiro DG, Downie AB. **Dehydrin client proteins identified using phage display affinity selected libraries processed with Paired-End PhAge Sequencing (PEPA-Seq).** Mol Cell Proteomics. 2024;:100867. Epub 2024/10/24. doi: 10.1016/j.mcpro.2024.100867. PubMed PMID: 39442694.

Mitaka H, Kobayashi T. **Challenges in interpreting the role of gentamicin in treatment of invasive listeriosis: immortal time bias and confounding.** Infection. 2024. Epub 2024/10/23. doi: 10.1007/s15010-024-02416-5. PubMed PMID: 39441464.

Astorino Nicola J, Nataliansyah MM, Lopez-Olivo MA, Adegboyega A, Hirko KA, Chichester LR, Nock NL, Ginex P, Christy SM, Levett P. **Champions to enhance implementation of clinical and community-based interventions in cancer: a scoping review.** Implement Sci Commun. 2024;5(1):119. Epub 2024/10/23. doi: 10.1186/s43058-024-00662-0. PubMed PMID: 39439009; PMCID: PMC11494796.

Sreenivasan CC, Naveed A, Uprety T, Soni S, Jacob O, Adam E, Wang D, Li F. **Epidemiological investigation of equine rotavirus B outbreaks in horses in central Kentucky.** Vet Microbiol. 2024;298:110278. Epub 2024/10/23. doi: 10.1016/j.vetmic.2024.110278. PubMed PMID: 39437661.

Fouad A, Kobic E, Nicolasora NP, Bastin MLT, Adams PM, Shen Y, Fratoni AJ, Ye X, Kuti JL, Nicolau DP, Asempa TE. **Validation of Cefiderocol Package Insert Dosing Recommendation for Patients Receiving Continuous Renal Replacement Therapy: A Prospective Multicenter Pharmacokinetic Study.** Open Forum Infect Dis. 2024;11(10):ofae451. Epub 2024/10/22. doi: 10.1093/ofid/ofae451. PubMed PMID: 39435320; PMCID: PMC11492798.

Freisthler B, Chahine RA, Villani J, Chandler R, Feaster DJ, Slavova S, Defiore-Hyrmer J, Walley AY, Kosakowski S, Aldridge A, Barbosa C, Bhatta S, Brancato C, Bridden C, Christopher M, Clarke T, David J, D'Costa L, Ewing I, Fernandez S, Gibson E, Gilbert L, Hall ME, Hargrove S, Hunt T, Kinnard EN, Larochelle L, Macoubray A, Nigam S, Nunes EV, Oser CB, Pagnano S, Rock P, Salsberry P, Shadwick A, Stopka TJ, Tan S, Taylor JL, Westgate PM, Wu E, Zarkin GA, Walsh SL, El-Bassel N, Winhusen TJ, Samet JH, Oga EA. **Communities That HEAL Intervention and Mortality Including Polysubstance Overdose Deaths: A Randomized Clinical Trial.** JAMA Netw Open. 2024;7(10):e2440006. Epub 2024/10/21. doi: 10.1001/jamanetworkopen.2024.40006. PubMed PMID: 39432308.

Scachetti GC, Forato J, Claro IM, Hua X, Salgado BB, Vieira A, Simeoni CL, Barbosa ARC, Rosa IL, de Souza GF, Fernandes LCN, de Sena ACH, Oliveira SC, Singh CML, de Lima STS, de Jesus R, Costa MA, Kato RB, Rocha JF, Santos LC, Rodrigues JT, Cunha MP, Sabino EC, Faria NR, Weaver SC, Romano CM, Lalwani P, Proenca-Modena JL, de Souza WM. **Re-emergence of Oropouche virus between 2023 and 2024 in Brazil: an observational epidemiological study.** Lancet Infect Dis. 2024. Epub 2024/10/19. doi: 10.1016/S1473-3099(24)00619-4. PubMed PMID: 39423838.

Wilbourn AC, Tsodikov OV, Garneau-Tsodikova S. **Association of COVID-19 risk factors with systemic fungal infections in hospitalized patients.** medRxiv. 2024. Epub 2024/10/17. doi: 10.1101/2024.10.10.24315254. PubMed PMID: 39417099; PMCID: PMC11482998.

Mayer KP, Ismaeel A, Kalema AG, Montgomery-Yates AA, Soper MK, Kern PA, Starck JD, Slone SA, Morris PE, Dupont-Versteegden EE, Kosmac K. **Persistent Fatigue, Weakness, and Aberrant Muscle Mitochondria in Survivors of Critical COVID-19.** Crit Care Explor. 2024;6(10):e1164. Epub 2024/10/16. doi: 10.1097/CCE.0000000000001164. PubMed PMID: 39412208; PMCID: PMC11487221.

Staton M, Tillson M, Levi MM, Leukefeld C, Dickson M, Oser CB, Fanucchi L, Annett J, Winston E, Webster JM. **Protective Factors Associated With Lower Likelihood of Injection Drug Use and Experiencing Overdose Among Incarcerated Women.** Womens Health Issues. 2024. Epub 2024/10/12. doi: 10.1016/j.whi.2024.09.001. PubMed PMID: 39393957.

Zia H, McCoy MD, Sturgill J, Hadid W, Maskey AP. **Novel endoscopic approach for treatment of malignant tracheoesophageal fistula (TEF): A case report.** Respir Med Case Rep. 2024;52:102108. Epub 2024/10/10. doi: 10.1016/j.rmcr.2024.102108. PubMed PMID: 39386381; PMCID: PMC11462064.

SantaCruz-Calvo S, Saraswat S, Hasturk H, Dawson DR, Zhang XD, Nikolajczyk BS. **Periodontitis and Diabetes Differentially Affect Inflammation in Obesity.** J Dent Res. 2024;:220345241280743. Epub 2024/10/09. doi: 10.1177/00220345241280743. PubMed PMID: 39382110.

Helmy YA, Kabir A, Saleh M, Kennedy LA, Burns L, Johnson B. **Draft genome sequence analysis of multidrug-resistant *Salmonella enterica* subsp. *enterica* serovar Mbandaka harboring colistin resistance gene *mcr*-*9.1* isolated from foals in Kentucky, USA.** Microbiol Resour Announc. 2024;:e0073724. Epub 2024/10/07. doi: 10.1128/mra.00737-24. PubMed PMID: 39373480.

Collis B, Alnabelsi T, Hall E, Cao C, Johnson M, Gurley J, Strnad L, Reda H, London T, Ogburn E, Sekela M, Stoner BJ, El-Dalati S. **Management of isolated native tricuspid valve infective endocarditis by a multidisciplinary program: a single-center retrospective cohort study.** Ther Adv Infect Dis. 2024;11:20499361241280690. Epub 2024/10/07. doi: 10.1177/20499361241280690. PubMed PMID: 39372129; PMCID: PMC11452872.

Banadaki MD, Rummel NG, Backus S, Butterfield DA, St Clair DK, Campbell JM, Zhong W, Mayer K, Berry SM, Chaiswing L. **Correction to: Extraction of redox extracellular vesicles using exclusion‑based sample preparation.** Anal Bioanal Chem. 2024. Epub 2024/10/02. doi: 10.1007/s00216-024-05568-3. PubMed PMID: 39356299.

Ebersole JL, Kirakodu SS, Zhang X, Dawson D, Miller CS. **Salivary microbiome and biomarker characteristics of diabetics with periodontitis.** Mol Oral Microbiol. 2024. Epub 2024/10/01. doi: 10.1111/omi.12485. PubMed PMID: 39351619.

Abbas UL, Zhang Y, Tapia J, Md S, Chen J, Shi J, Shao Q. **Machine-Learning-Assisted Design of Deep Eutectic Solvents Based on Uncovered Hydrogen Bond Patterns.** Engineering (Beijing). 2024;39:74-83. Epub 2024/09/26. doi: 10.1016/j.eng.2023.10.020. PubMed PMID: 39323971; PMCID: PMC11423819.

Hughes TG, Wurth MA, Sheppard MB. **Tissue plasminogen activator associated pulmonary hemorrhage in patient with *ACTA2*-associated arteriopathy.** J Vasc Surg Cases Innov Tech. 2024;10(6):101558. Epub 2024/09/23. doi: 10.1016/j.jvscit.2024.101558. PubMed PMID: 39310919; PMCID: PMC11413666.

Oshima K, Sugano Y, Yoshida A, Uegami W, Van Sickels N, Kobayashi T, Eguchi T. **Mediastinal abscess and bacteremia due to *Streptococcus dysgalactiae* complicated by aorto-esophageal fistula leading to death with massive bleeding in a 70-year-old Japanese man with gastric cancer.** IDCases. 2024;38:e02078. Epub 2024/09/23. doi: 10.1016/j.idcr.2024.e02078. PubMed PMID: 39309038; PMCID: PMC11416686.

Bonefont LE, Davenport HC, Chaton CT, Korotkov KV, Rohde KH. **Atypical Mycobacterium abscessus BlaRI Ortholog Mediates Regulation of Energy Metabolism but Not β-Lactam Resistance.** Mol Microbiol. 2024. Epub 2024/09/23. doi: 10.1111/mmi.15314. PubMed PMID: 39308125.

Tripathi A, Donkin RW, Miracle JS, Murphy RD, Patwardhan A, Sinai AP. **Dynamics of amylopectin granule accumulation during the course of the chronic *Toxoplasma* infection is linked to intra-cyst bradyzoite replication.** bioRxiv. 2024. Epub 2024/09/17. doi: 10.1101/2024.09.02.610794. PubMed PMID: 39282379; PMCID: PMC11398317.

Sledziona J, Burikhanov R, Araujo N, Jiang J, Hebbar N, Rangnekar VM. **The Tumor Suppressor Par-4 Regulates Adipogenesis by Transcriptional Repression of PPARγ.** Cells. 2024;13(17). Epub 2024/09/14. doi: 10.3390/cells13171495. PubMed PMID: 39273065; PMCID: PMC11393870.

Adam E, Scollay M, Howard B, Taormina J, Hartmann P, Knych H. **Detection of levamisole and its metabolites in horses after oral levamisole administration over seven days.** J Am Vet Med Assoc. 2024;:1-7. Epub 2024/09/14. doi: 10.2460/javma.23.06.0340. PubMed PMID: 39270716.

Refaey MM, Al-Otibi FO, El-Khateeb AY, Helmy YA, Saber WIA, Zalma SA. **Enhanced biochemical, microbial, and ultrastructural attributes of reduced-fat labneh through innovative microalgae integration.** Sci Rep. 2024;14(1):21188. Epub 2024/09/12. doi: 10.1038/s41598-024-71190-z. PubMed PMID: 39261488; PMCID: PMC11391007.

Proctor JD, Mackevicius-Dubickaja V, Gottlieb Y, White JA. **Warm temperature inhibits cytoplasmic incompatibility induced by endosymbiotic Rickettsiella in spider hosts.** Environ Microbiol. 2024;26(9):e16697. Epub 2024/09/10. doi: 10.1111/1462-2920.16697. PubMed PMID: 39253751.

Akbari F, Liu X, Hamedi F, Mohtasebi M, Chen L, Yu G. **Programmable scanning diffuse speckle contrast imaging of cerebral blood flow.** ArXiv. 2024. Epub 2024/09/10. PubMed PMID: 39253639; PMCID: PMC11383439.

Jiao Y, Palli SR. **RNA modifications in insects.** Front Insect Sci. 2024;4:1448766. Epub 2024/09/10. doi: 10.3389/finsc.2024.1448766. PubMed PMID: 39253349; PMCID: PMC11381373.

Thrasher SS, Otachi JK, Brune SC, Surratt HL. **Early vs. Later Experiences of Violence and Polysubstance Use Among Adults Who Inject Drugs.** Subst Use Misuse. 2024;59(12):1802-1811. Epub 2024/09/10. doi: 10.1080/10826084.2024.2383590. PubMed PMID: 39252209; PMCID: PMC11431478.

Fedorka CE, El-Sheikh-Ali H, Scoggin KE, Coleman S, Humphrey EA, Troutt L, Troedsson MHT. **The Effect of Seminal Plasma on the Equine Endometrial Transcriptome.** Reprod Domest Anim. 2024;59(9):e14711. Epub 2024/09/09. doi: 10.1111/rda.14711. PubMed PMID: 39246124.

Banadaki MD, Rummel NG, Backus S, Butterfield DA, St Clair DK, Campbell JM, Zhong W, Mayer K, Berry SM, Chaiswing L. **Extraction of redox extracellular vesicles using exclusion-based sample preparation.** Anal Bioanal Chem. 2024. Epub 2024/09/07. doi: 10.1007/s00216-024-05518-z. PubMed PMID: 39243301.

Kerley BS, Harris P, Lea K, McClendon M, Adams AA. **Effects of storage-handling methods on nutrient analysis of fresh-forage samples.** J Equine Vet Sci. 2024;142:105182. Epub 2024/09/07. doi: 10.1016/j.jevs.2024.105182. PubMed PMID: 39241896.

Burus T, Lei F, Huang B, Christian WJ, Hull PC, Ellis AR, Slavova S, Tucker TC, Lang Kuhs KA. **COVID-19 and Rates of Cancer Diagnosis in the US.** JAMA Netw Open. 2024;7(9):e2432288. Epub 2024/09/06. doi: 10.1001/jamanetworkopen.2024.32288. PubMed PMID: 39240562; PMCID: PMC11380103.

Myint T, Wilson JR, Bhatt M, Irwin ME, Ribes JA. **The significance of low titer serum cryptococcal antigen testing from 2017 to 2023 performed in a tertiary care center.** Med Mycol. 2024;62(9). Epub 2024/09/06. doi: 10.1093/mmy/myae093. PubMed PMID: 39237463.

Jacquay ET, Harris PA, Adams AA. **The impact of short-term transportation stress on insulin and oral sugar responses in insulin dysregulated and non-insulin dysregulated horses.** Equine Vet J. 2024. Epub 2024/09/05. doi: 10.1111/evj.14403. PubMed PMID: 39233387.

Cooper HLF, Livingston MD, Crawford ND, Feinberg J, Ford CL, Go V, Ibragimov U, Jahangir T, Mullany A, Miller WC, Peddireddy S, Salas-Hernandez L, Smith G, Young AM, Zule W, Sewell A. **The War on Drugs, Racialized Capitalism, and Health Care Utilization Among White People Who Use Drugs in 22 Rural Appalachian Counties.** Am J Public Health. 2024;114(10):1086-1096. Epub 2024/09/04. doi: 10.2105/AJPH.2024.307744. PubMed PMID: 39231413; PMCID: PMC11375347.

Ujas TA, Anderson KL, Lutshumba J, Hart SN, Turchan-Cholewo J, Hatton KW, Bachstetter AD, Nikolajczyk BS, Stowe AM. **Temporal Immune Profiling in the CSF and Blood of Patients with Aneurysmal Subarachnoid Hemorrhage.** medRxiv. 2024. Epub 2024/09/04. doi: 10.1101/2024.08.16.24312086. PubMed PMID: 39228728; PMCID: PMC11370545.

Luan H, Song D, Huang K, Li S, Xu H, Kachroo P, Kachroo A, Zhao L. **Genome-wide analysis of the soybean *eEF* gene family and its involvement in virus resistance.** Front Plant Sci. 2024;15:1421221. Epub 2024/09/03. doi: 10.3389/fpls.2024.1421221. PubMed PMID: 39224853; PMCID: PMC11366645.

Heil L, Jewell S, Lines JL, Garvy BA. **The Altered Neonatal CD8+ T Cell Immunodominance Hierarchy during Influenza Virus Infection Impacts Peptide Vaccination.** Viruses. 2024;16(8). Epub 2024/08/31. doi: 10.3390/v16081271. PubMed PMID: 39205245; PMCID: PMC11359775.

Kabir A, Lamichhane B, Habib T, Adams A, El-Sheikh Ali H, Slovis NM, Troedsson MHT, Helmy YA. **Antimicrobial Resistance in Equines: A Growing Threat to Horse Health and Beyond-A Comprehensive Review.** Antibiotics (Basel). 2024;13(8). Epub 2024/08/31. doi: 10.3390/antibiotics13080713. PubMed PMID: 39200013; PMCID: PMC11350719.

Orom H, Allard NC, Hay JL, Kiviniemi MT, Waters EA, McQueen A. **Reducing information avoidance: The effectiveness of humour, cute animals and coping messages.** Br J Health Psychol. 2024. Epub 2024/08/31. doi: 10.1111/bjhp.12748. PubMed PMID: 39198308.

Cape HT, Gupta L, Blanchard CC, Raslau FD, Timoney PJ. **Tumor versus bland thrombus: diffuse large B-cell lymphoma presenting as cavernous sinus and left superior ophthalmic vein thrombosis.** Orbit. 2024;:1-5. Epub 2024/08/28. doi: 10.1080/01676830.2024.2393416. PubMed PMID: 39192768.

Walters SM, Baker R, Frank D, Fadanelli M, Rudolph AE, Zule W, Fredericksen RJ, Bolinski R, Sibley AL, Go VF, Ouellet LJ, Pho MT, Seal DW, Feinberg J, Smith G, Young AM, Stopka TJ. **Strategies used to reduce harms associated with fentanyl exposure among rural people who use drugs: multi-site qualitative findings from the rural opioid initiative.** Harm Reduct J. 2024;21(1):154. Epub 2024/08/26. doi: 10.1186/s12954-024-01062-2. PubMed PMID: 39182116; PMCID: PMC11344336.

Mixson LS, Whitney BM, Jenkins WD, Stopka TJ, Korthuis PT, Drumright LN, Ruderman SA, Friedmann PD, Pho MT, Young AM, Westergaard RP, Seal DW, Go VF, Miller WC, Zule WA, Feinberg J, Cooper HL, Tsui JI, Crane HM, Delaney JA. **Behavioral and Health Outcome Differences by Heroin or Methamphetamine Preference Among People in Rural US Communities Who Use Both Substances.** Subst Use. 2024;18:29768357241272374. Epub 2024/08/23. doi: 10.1177/29768357241272374. PubMed PMID: 39175912; PMCID: PMC11339740.

Unrine JM, McCoy N, Christian WJ, Gautam Y, Ormsbee L, Sanderson W, Draper R, Mooney M, Cromer M, Pennell K, Hoover AG. **Spatial and seasonal variation in disinfection byproducts concentrations in a rural public drinking water system: A case study of Martin County, Kentucky, USA.** PLOS Water. 2024;3(3). Epub 2024/08/23. doi: 10.1371/journal.pwat.0000227. PubMed PMID: 39175793; PMCID: PMC11340270.

Greenberg RN, Schmidt D, Reichhardt D, Roesch S, Vidojkovic S, Maclennan J, Chen LM, Gruenert R, Kreusel C, Weidenthaler H, Meyer TPH, Chaplin PJ. **Equivalence of freeze-dried and liquid-frozen formulations of MVA-BN as smallpox and mpox vaccine.** Hum Vaccin Immunother. 2024;20(1):2384189. Epub 2024/08/22. doi: 10.1080/21645515.2024.2384189. PubMed PMID: 39171509; PMCID: PMC11346558.

Zhu M, Frank MW, Radka CD, Jeanfavre S, Xu J, Tse MW, Pacheco JA, Kim JS, Pierce K, Deik A, Hussain FA, Elsherbini J, Hussain S, Xulu N, Khan N, Pillay V, Mitchell CM, Dong KL, Ndung'u T, Clish CB, Rock CO, Blainey PC, Bloom SM, Kwon DS. **Vaginal Lactobacillus fatty acid response mechanisms reveal a metabolite-targeted strategy for bacterial vaginosis treatment.** Cell. 2024;187(19):5413-5430.e29. Epub 2024/08/21. doi: 10.1016/j.cell.2024.07.029. PubMed PMID: 39163861; PMCID: PMC11429459.

Uprety T, Soni S, Sreenivasan C, Hause BM, Naveed A, Ni S, Graves AJ, Morrow JK, Meade N, Mellits KH, Adam E, Kennedy MA, Wang D, Li F. **Genetic and antigenic characterization of two diarrhoeicdominant rotavirus A genotypes G3P[12] and G14P[12] circulating in the global equine population.** J Gen Virol. 2024;105(8). Epub 2024/08/20. doi: 10.1099/jgv.0.002016. PubMed PMID: 39163114; PMCID: PMC11335307.

Clark JA, Burgess DS. **Comparing the activity of broad-spectrum beta-lactams in combination with aminoglycosides against VIM-producing *Enterobacteriaceae*.** Microbiol Spectr. 2024;12(10):e0387623. Epub 2024/08/20. doi: 10.1128/spectrum.03876-23. PubMed PMID: 39162554; PMCID: PMC11448446.

Oldham ML, Zuhaib Qayyum M, Kalathur RC, Rock CO, Radka CD. **Cryo-EM reconstruction of oleate hydratase bound to a phospholipid membrane bilayer.** J Struct Biol. 2024;216(3):108116. Epub 2024/08/17. doi: 10.1016/j.jsb.2024.108116. PubMed PMID: 39151742; PMCID: PMC11385989.

Liu Y, Lin W, Nagy PD. **Proviral and antiviral roles of phosphofructokinase family of glycolytic enzymes in TBSV replication.** Virology. 2024;599:110190. Epub 2024/08/16. doi: 10.1016/j.virol.2024.110190. PubMed PMID: 39146928.

Owen AM, Fry CS. **Decoding the decline: unveiling drivers of sarcopenia.** J Clin Invest. 2024;134(16). Epub 2024/08/15. doi: 10.1172/JCI183302. PubMed PMID: 39145450; PMCID: PMC11324291.

Surratt HL, Brown S, Burton AL, Cranford W, Green C, Mersch SM, Rains R, Westgate PM. **Examining HIV pre-exposure prophylaxis (PrEP) acceptability among rural people who inject drugs: predictors of PrEP interest among syringe service program clients.** AIDS Care. 2024;:1-11. Epub 2024/08/14. doi: 10.1080/09540121.2024.2390067. PubMed PMID: 39137923.

Roberts CS, Shannon AB, Korotkov KV, Sandkvist M. **Differential processing of VesB by two rhomboid proteases in *Vibrio cholerae*.** mBio. 2024;15(9):e0127024. Epub 2024/08/13. doi: 10.1128/mbio.01270-24. PubMed PMID: 39136457; PMCID: PMC11389362.

Prest RJ, Korotkov KV, Champion PA. **The regulatory functions of ESX-1 substrates, EspE and EspF, are separable from secretion.** J Bacteriol. 2024;206(9):e0027124. Epub 2024/08/13. doi: 10.1128/jb.00271-24. PubMed PMID: 39136451; PMCID: PMC11411940.

Erlandson KM, Geng LN, Selvaggi CA, Thaweethai T, Chen P, Erdmann NB, Goldman JD, Henrich TJ, Hornig M, Karlson EW, Katz SD, Kim C, Cribbs SK, Laiyemo AO, Letts R, Lin JY, Marathe J, Parthasarathy S, Patterson TF, Taylor BD, Duffy ER, Haack M, Julg B, Maranga G, Hernandez C, Singer NG, Han J, Pemu P, Brim H, Ashktorab H, Charney AW, Wisnivesky J, Lin JJ, Chu HY, Go M, Singh U, Levitan EB, Goepfert PA, Nikolich JŽ, Hsu H, Peluso MJ, Kelly JD, Okumura MJ, Flaherman VJ, Quigley JG, Krishnan JA, Scholand MB, Hess R, Metz TD, Costantine MM, Rouse DJ, Taylor BS, Goldberg MP, Marshall GD, Wood J, Warren D, Horwitz L, Foulkes AS, McComsey GA, undefined undefined. **Differentiation of Prior SARS-CoV-2 Infection and Postacute Sequelae by Standard Clinical Laboratory Measurements in the RECOVER Cohort.** Ann Intern Med. 2024;177(9):1209-1221. Epub 2024/08/12. doi: 10.7326/M24-0737. PubMed PMID: 39133923; PMCID: PMC11408082.

Scachetti GC, Forato J, Claro IM, Hua X, Salgado BB, Vieira A, Simeoni CL, Barbosa ARC, Rosa IL, de Souza GF, Fernandes LCN, de Sena ACH, Oliveira SC, Singh CML, de Lima ST, de Jesus R, Costa MA, Kato RB, Rocha JF, Santos LC, Rodrigues JT, Cunha MP, Sabino EC, Faria NR, Weaver SC, Romano CM, Lalwani P, Proença-Módena JL, de Souza WM. **Reemergence of Oropouche virus between 2023 and 2024 in Brazil.** medRxiv. 2024. Epub 2024/08/12. doi: 10.1101/2024.07.27.24310296. PubMed PMID: 39132482; PMCID: PMC11312653.

El-Dalati S, Alnabelsi T, Gurley J, Cremeans K, Reda H, London-Bounds T, Ogburn E, Sekela M. **Acute drug-use-related native tricuspid valve infective endocarditis: a non-surgical disease.** Ther Adv Infect Dis. 2024;11:20499361241267124. Epub 2024/08/12. doi: 10.1177/20499361241267124. PubMed PMID: 39132095; PMCID: PMC11311191.

Page AE, Johnson M, Parker JL, Jacob O, Poston R, Adams AA, Adam EN. **The Effects of Intra-Articular Triamcinolone and Autologous Protein Solution on Metabolic Parameters in Horses.** Animals (Basel). 2024;14(15). Epub 2024/08/10. doi: 10.3390/ani14152250. PubMed PMID: 39123776.

DiPrete BL, Dasgupta N, Oh GY, Moga DC, Slavova S, Slade E, Delcher C, Pence BW, Ranapurwala SI. **Abuse-deterrent formulations and opioid-related harms in North Carolina, 2010-2018.** Am J Epidemiol. 2024. Epub 2024/08/10. doi: 10.1093/aje/kwae252. PubMed PMID: 39122991.

Chakravarty S, Varghese M, Fan S, Taylor RT, Chakravarti R, Chattopadhyay S. **IRF3 inhibits inflammatory signaling pathways in macrophages to prevent viral pathogenesis.** Sci Adv. 2024;10(32):eadn2858. Epub 2024/08/09. doi: 10.1126/sciadv.adn2858. PubMed PMID: 39121222; PMCID: PMC11313863.

Kang Y, Pogany J, Nagy PD. **Proviral role of ATG2 autophagy related protein in tomato bushy stunt virus replication through bulk phospholipid transfer into the viral replication organelle.** Mol Biol Cell. 2024;:mbcE24050236. Epub 2024/08/07. doi: 10.1091/mbc.E24-05-0236. PubMed PMID: 39110527.

Christine PJ, Chahine RA, Kimmel SD, Mack N, Douglas C, Stopka TJ, Calver K, Fanucchi LC, Slavova S, Lofwall M, Feaster DJ, Lyons M, Ezell J, Larochelle MR. **Buprenorphine Prescribing Characteristics Following Relaxation of X-Waiver Training Requirements.** JAMA Netw Open. 2024;7(8):e2425999. Epub 2024/08/05. doi: 10.1001/jamanetworkopen.2024.25999. PubMed PMID: 39102264; PMCID: PMC11301557.

Herbst AC, Coleman MC, Macon EL, Harris PA, Adams AA. **Owner-reported health and disease in U.S. senior horses.** Equine Vet J. 2024. Epub 2024/08/02. doi: 10.1111/evj.14200. PubMed PMID: 39092919.

Olney KB, Pai MP, Thomas JK, Burgess DR, Olney WJ, Bruning RA, Griffith KA, Casaus DV, Crance E, Porterfield JZ, Burgess DS. **Fixed dose daptomycin: An opportunity for pharmacokinetic/pharmacodynamic optimization in Staphylococcus aureus infections.** Pharmacotherapy. 2024. Epub 2024/07/30. doi: 10.1002/phar.4602. PubMed PMID: 39078247.

Fedorka CE, Scoggin KE, El-Sheikh Ali H, Troedsson MHT. **Evaluating the IL-6 Family of Cytokines Throughout Equine Gestation.** Am J Reprod Immunol. 2024;92(1):e13910. Epub 2024/07/29. doi: 10.1111/aji.13910. PubMed PMID: 39072818.

Kutkut A, White R, Awad M, Brown J, Sharab L, Hawk GS, Miller CS. **Prevalence of Decay and Tooth Condition Changes Adjacent to Restored Dental Implants: A Retrospective Radiographic Study.** J Oral Implantol. 2024. Epub 2024/07/29. doi: 10.1563/aaid-joi-D-24-00044. PubMed PMID: 39069796.

Khan A, Olajide E, Friedrich M, Holt A, Goehring LS. **Evaluation of Non-Invasive Sampling Techniques for the Molecular Surveillance of Equid Herpesviruses in Yearling Horses.** Viruses. 2024;16(7). Epub 2024/07/27. doi: 10.3390/v16071091. PubMed PMID: 39066254; PMCID: PMC11281437.

Rahman MM, Hossain H, Chowdhury MSR, Hossain MM, Saleh A, Binsuwaidan R, Noreddin A, Helmy YA, El Zowalaty ME. **Molecular Characterization of Multidrug-Resistant and Extended-Spectrum β-Lactamases-Producing *Salmonella enterica* Serovars Enteritidis and Typhimurium Isolated from Raw Meat in Retail Markets.** Antibiotics (Basel). 2024;13(7). Epub 2024/07/27. doi: 10.3390/antibiotics13070586. PubMed PMID: 39061268; PMCID: PMC11274296.

Arya SK, Harrison DA, Palli SR. **Deciphering cellular heterogeneity in Spodoptera frugiperda midgut cell line through single cell RNA sequencing.** Genomics. 2024;116(5):110898. Epub 2024/07/26. doi: 10.1016/j.ygeno.2024.110898. PubMed PMID: 39047877.

Fredericksen RJ, Mixson LS, Estadt AT, Leichtling G, Bresett J, Zule W, Walters SM, Friedmann PD, Romo E, Whitney BM, Delaney JAC, Crane HM, Tsui JI, Young A, Seal D, Stopka TJ. **Barriers to retention in inpatient and residential drug treatment among persons who use opioids and/or injection drugs living in the rural U.S.** J Subst Use Addict Treat. 2024;165:209453. Epub 2024/07/22. doi: 10.1016/j.josat.2024.209453. PubMed PMID: 39033853.

Zhu L, Thompson WW, Hagan L, Randall LM, Rudolph AE, Young AM, Havens JR, Salomon JA, Linas BP. **Potential impact of curative and preventive interventions toward hepatitis C elimination in people who inject drugs-A network modeling study.** Int J Drug Policy. 2024;130:104539. Epub 2024/07/22. doi: 10.1016/j.drugpo.2024.104539. PubMed PMID: 39033645.

Grabatin M, Fux R, Zablotski Y, Goehring LS, Witte TS. **Taylorella equigenitalis in Icelandic intact males compared with other horse breeds using natural cover.** Equine Vet J. 2024. Epub 2024/07/20. doi: 10.1111/evj.14121. PubMed PMID: 39031711.

Mayer KP, Haezebrouck E, Ginoza LM, Martinez C, Jan M, Michener LA, Fresenko LE, Montgomery-Yates AA, Kalema AG, Pastva AM, Biehl M, Mart MF, Johnson JK. **Early physical rehabilitation dosage in the intensive care unit associates with hospital outcomes after critical COVID-19.** Crit Care. 2024;28(1):248. Epub 2024/07/19. doi: 10.1186/s13054-024-05035-6. PubMed PMID: 39026370; PMCID: PMC11256579.

Amanna IJ, Thomas A, Engelmann F, Hammarlund E, Raué HP, Bailey AL, Poore EA, Quintel BK, Lewis AD, Axthelm MK, Johnson AL, Colgin LMA, Diamond MS, Messaoudi I, Slifka MK. **Development of a hydrogen peroxide-inactivated vaccine that protects against viscerotropic yellow fever in a non-human primate model.** Cell Rep Med. 2024;5(7):101655. Epub 2024/07/18. doi: 10.1016/j.xcrm.2024.101655. PubMed PMID: 39019010; PMCID: PMC11293362.

Ebersole JL, Hasturk H, Huber M, Gellibolian R, Markaryan A, Zhang XD, Miller CS. **Realizing the clinical utility of saliva for monitoring oral diseases.** Periodontol 2000. 2024. Epub 2024/07/16. doi: 10.1111/prd.12581. PubMed PMID: 39010260.

Wood JP. **Paving the way to factor X deficiency therapies.** Blood. 2024;144(2):134-135. Epub 2024/07/11. doi: 10.1182/blood.2024024878. PubMed PMID: 38990542.

Elmore G, Ahern BM, McVay NM, Barker KW, Lohano SS, Ali N, Sebastian A, Andres DA, Satin J, Levitan BM. **The C-terminus of Rad is required for membrane localization and L-type calcium channel regulation.** J Gen Physiol. 2024;156(9). Epub 2024/07/11. doi: 10.1085/jgp.202313518. PubMed PMID: 38990175; PMCID: PMC11244639.

Niet Svd, Green KD, Schimmel IM, Bakker Jd, Lodder B, Reits EA, Garneau-Tsodikova S, van der Wel NN. **Zafirlukast induces DNA condensation and has bactericidal effect on replicating *Mycobacterium abscessus*.** Antimicrob Agents Chemother. 2024;:e0002924. Epub 2024/07/11. doi: 10.1128/aac.00029-24. PubMed PMID: 38990015.

Azimi SF, Golnabi E, Mynatt RP, Burgess D, Logan A, Wrenn RH, Parisi Mercado M, Boeser K, Plauche A, Sexton ME, Walraven C. **Antimicrobial Stewardship Practices in Outpatient Parenteral Antimicrobial Therapy Programs in the United States.** Open Forum Infect Dis. 2024;11(7):ofae347. Epub 2024/07/10. doi: 10.1093/ofid/ofae347. PubMed PMID: 38983708; PMCID: PMC11232693.

Groner JA, Nicholson L, Bauer JA, Huang H, Lindstrom M, Root E. **Exposure to air pollution and cardiovascular risk in young children - a pilot project.** Pediatr Res. 2024. Epub 2024/07/10. doi: 10.1038/s41390-024-03377-z. PubMed PMID: 38982164.

McLaurin KA, Ott RK, Mactutus CF, Booze RM. **Adolescent oral oxycodone self-administration disrupts neurobehavioral and neurocognitive development.** Neuropharmacology. 2024;258:110064. Epub 2024/07/10. doi: 10.1016/j.neuropharm.2024.110064. PubMed PMID: 38981578.

Patt EM, Ribes JA, Long LM, Gardner BM, Howard JI, Schadler A, Olney KB. **Optimizing Neonatal Herpes Simplex Virus (HSV) Evaluations: Influence of In-House Serum HSV PCR Performance on Diagnostic Turnaround, Acyclovir Duration, and Hospital Length of Stay.** J Pediatric Infect Dis Soc. 2024. Epub 2024/07/04. doi: 10.1093/jpids/piae072. PubMed PMID: 38963796.

Koo J, Palli SR. **Recent advances in understanding of the mechanisms of RNA interference in insects.** Insect Mol Biol. 2024. Epub 2024/07/03. doi: 10.1111/imb.12941. PubMed PMID: 38957135.

Patterson ME, Ellingrod VL, Feola DJ, Kunda NK, Mei KC, Oestreich JH, Farrell DF, Giacomini KM. **Report of the 2023-2024 AACP Research and Graduate Affairs Committee.** Am J Pharm Educ. 2024;88(8):100745. Epub 2024/06/30. doi: 10.1016/j.ajpe.2024.100745. PubMed PMID: 38944279.

El-Dalati S, Paras ML, Strnad L, Harris AW, Gurley JC, Sekela M, Nauriyal V, Januzzi JL, DeFaria Yeh D, Yucel E. **In Plain Sight: The Need for a Dedicated Cardiovascular Infectious Disease Subspecialty.** JACC Adv. 2024;3(1):100748. Epub 2024/06/28. doi: 10.1016/j.jacadv.2023.100748. PubMed PMID: 38939821; PMCID: PMC11198213.

Oser CB, McGladrey M, Booty M, Surratt H, Knudsen HK, Freeman PR, Stevens-Watkins D, Roberts MF, Staton M, Young A, Draper E, Walsh SL. **Rapid jail-based implementation of overdose education and naloxone distribution in response to the COVID-19 pandemic.** Health Justice. 2024;12(1):27. Epub 2024/06/27. doi: 10.1186/s40352-024-00283-8. PubMed PMID: 38935213; PMCID: PMC11212218.

Jacquay ET, Harris PA, Stowe CJ, McIntosh BJ, Adams AA. **A survey of general road transportation: How and why horses are transported in the U.S.** J Equine Vet Sci. 2024;140:105137. Epub 2024/06/24. doi: 10.1016/j.jevs.2024.105137. PubMed PMID: 38909768.

Ayyasamy R, Fan S, Czernik P, Lecka-Czernik B, Chattopadhyay S, Chakravarti R. **14-3-3ζ suppresses RANKL signaling by destabilizing TRAF6.** J Biol Chem. 2024;300(7):107487. Epub 2024/06/23. doi: 10.1016/j.jbc.2024.107487. PubMed PMID: 38908751.

Krusenstjerna AC, Jusufovic N, Saylor TC, Stevenson B. **DnaA modulates gene expression and morphologyof the Lyme Disease spirochete.** bioRxiv. 2024. Epub 2024/06/19. doi: 10.1101/2024.06.08.598065. PubMed PMID: 38895450; PMCID: PMC11185795.

Doratt BM, Malherbe DC, Messaoudi I. **Transcriptional and functional remodeling of lung-resident T cells and macrophages by Simian varicella virus infection.** Front Immunol. 2024;15:1408212. Epub 2024/06/18. doi: 10.3389/fimmu.2024.1408212. PubMed PMID: 38887303; PMCID: PMC11180879.

Subburayan K, Thayyullathil F, Pallichankandy S, Cheratta AR, Alakkal A, Sultana M, Drou N, Arshad M, Palanikumar L, Magzoub M, Rangnekar VM, Galadari S. **Tumor suppressor Par-4 activates autophagy-dependent ferroptosis.** Commun Biol. 2024;7(1):732. Epub 2024/06/18. doi: 10.1038/s42003-024-06430-z. PubMed PMID: 38886572; PMCID: PMC11183062.

Koo J, Palli SR. **StaufenC facilitates utilization of the ERAD pathway to transport dsRNA through the endoplasmic reticulum to the cytosol.** Proc Natl Acad Sci U S A. 2024;121(26):e2322927121. Epub 2024/06/17. doi: 10.1073/pnas.2322927121. PubMed PMID: 38885386; PMCID: PMC11214074.

undefined undefined, Samet JH, El-Bassel N, Winhusen TJ, Jackson RD, Oga EA, Chandler RK, Villani J, Freisthler B, Adams J, Aldridge A, Angerame A, Babineau DC, Bagley SM, Baker TJ, Balvanz P, Barbosa C, Barocas J, Battaglia TA, Beard DD, Beers D, Blevins D, Bove N, Bridden C, Brown JL, Bush HM, Bush JL, Caldwell R, Calver K, Calvert D, Campbell ANC, Carpenter J, Caspar R, Chassler D, Chaya J, Cheng DM, Cunningham CO, Dasgupta A, David JL, Davis A, Dean T, Drainoni ML, Eggleston B, Fanucchi LC, Feaster DJ, Fernandez S, Figueroa W, Freedman DA, Freeman PR, Freiermuth CE, Friedlander E, Gelberg KH, Gibson EB, Gilbert L, Glasgow L, Goddard-Eckrich DA, Gomori S, Gruss DE, Gulley J, Gutnick D, Hall ME, Harger Dykes N, Hargrove SL, Harlow K, Harris A, Harris D, Helme DW, Holloway J, Hotchkiss J, Huang T, Huerta TR, Hunt T, Hyder A, Ingram VL, Ingram T, Kauffman E, Kimball JL, Kinnard EN, Knott C, Knudsen HK, Konstan MW, Kosakowski S, Larochelle MR, Leaver HM, LeBaron PA, Lefebvre RC, Levin FR, Lewis N, Lewis N, Lofwall MR, Lounsbury DW, Luster JE, Lyons MS, Mack A, Marks KR, Marquesano S, Mauk R, McAlearney AS, McConnell K, McGladrey ML, McMullan J, Miles J, Munoz Lopez R, Nelson A, Neufeld JL, Newman L, Nguyen TQ, Nunes EV, Oller DA, Oser CB, Oyler DR, Pagnano S, Parran TV, Powell J, Powers K, Ralston W, Ramsey K, Rapkin BD, Reynolds JG, Roberts MF, Robertson W, Rock P, Rodgers E, Rodriguez S, Rudorf M, Ryan S, Salsberry P, Salvage M, Sabounchi N, Saucier M, Savitzky C, Schackman B, Schady E, Seiber EE, Shadwick A, Shoben A, Slater MD, Slavova S, Speer D, Sprunger J, Starbird LE, Staton M, Stein MD, Stevens-Watkins DJ, Stopka TJ, Sullivan A, Surratt HL, Sword Cruz R, Talbert JC, Taylor JL, Thompson KL, Vandergrift N, Vickers-Smith RA, Vietze DJ, Walker DM, Walley AY, Walters ST, Weiss R, Westgate PM, Wu E, Young AM, Zarkin GA, Walsh SL. **Community-Based Cluster-Randomized Trial to Reduce Opioid Overdose Deaths.** N Engl J Med. 2024. Epub 2024/06/17. doi: 10.1056/NEJMoa2401177. PubMed PMID: 38884347.

Delcher C, Quesinberry D, Torabi S, Berry S, Keck JW, Rani A, Subedi B. **Wastewater Surveillance for Xylazine in Kentucky.** AJPM Focus. 2024;3(3):100203. Epub 2024/06/17. doi: 10.1016/j.focus.2024.100203. PubMed PMID: 38883693; PMCID: PMC11180370.

Abou Ayana IAA, Elgarhy MR, Al-Otibi FO, Omar MM, El-Abbassy MZ, Khalifa SA, Helmy YA, Saber WIA. **Artificial Intelligence-Powered Optimization and Milk Permeate Upcycling for Innovative Sesame Milk with Enhanced Probiotic Viability and Sensory Appeal.** ACS Omega. 2024;9(23):25189-25202. Epub 2024/06/17. doi: 10.1021/acsomega.4c02824. PubMed PMID: 38882090; PMCID: PMC11170702.

Naveed A, Yu J, Lawson S, Gao R, Ni S, Paulchakrabarti M, Choudhury B, Christopher-Hennings J, Nelson E, Sheng Z, Kennedy MA, Li F, Wang D. **Receptor binding and immunogenic properties of the receptor binding domain of influenza D virus hemagglutinin-esterase-fusion protein expressed from Escherichia coli.** Virology. 2024;597:110138. Epub 2024/06/17. doi: 10.1016/j.virol.2024.110138. PubMed PMID: 38880069.

Winford E, Lutshumba J, Martin BJ, Wilcock DM, Jicha GA, Nikolajczyk BS, Stowe AM, Bachstetter AD. **Terminally differentiated effector memory T cells associate with cognitive and AD-related biomarkers in an aging-based community cohort.** Immun Ageing. 2024;21(1):36. Epub 2024/06/13. doi: 10.1186/s12979-024-00443-2. PubMed PMID: 38867294; PMCID: PMC11167815.

Fletcher P, Clancy CS, O'Donnell KL, Doratt BM, Malherbe DC, Rhoderick JF, Feldmann F, Hanley PW, Takada A, Messaoudi I, Marzi A. **Pathogenic differences of cynomolgus macaques after Taï Forest virus infection depend on the viral stock propagation.** PLoS Pathog. 2024;20(6):e1012290. Epub 2024/06/11. doi: 10.1371/journal.ppat.1012290. PubMed PMID: 38861571; PMCID: PMC11195944.

Saville CWN, Mann R, Lockard AS, Bark-Connell A, Gabuljah SG, Young AM, Thomas DR. **Covid and the common good: In-group out-group dynamics and Covid-19 vaccination in Wales and the United States.** Soc Sci Med. 2024;352:117022. Epub 2024/06/09. doi: 10.1016/j.socscimed.2024.117022. PubMed PMID: 38850676.

Prusaczyk B, Tilmon S, Landman J, Seibert D, Colston DC, Westergaard R, Cooper H, Feinberg J, Friedmann PD, Go VF, Khoury D, Korthius T, Mixson S, Moellner A, Nolte K, Smith G, Young A, Pho MT, Jenkins W. **Barriers to Healthcare and Social Service Utilization Among Rural Older Adults Who Use Drugs.** J Appl Gerontol. 2024;:7334648241258018. Epub 2024/06/06. doi: 10.1177/07334648241258018. PubMed PMID: 38839560.

Adegboyega A, Kang J, Aroh A, Williams LB. **Perceived Barriers to Pap Screening Influence Adherence to Screening Recommendations Among Black Women.** J Womens Health (Larchmt). 2024. Epub 2024/06/05. doi: 10.1089/jwh.2023.1024. PubMed PMID: 38837184.

Tapia AC, Jaromczyk JW, Moore N, Schardl CL. **RNA-clique: a method for computing genetic distances from RNA-seq data.** BMC Bioinformatics. 2024;25(1):205. Epub 2024/06/05. doi: 10.1186/s12859-024-05811-9. PubMed PMID: 38834962; PMCID: PMC11149392.

Santos-Júnior PFDS, Batista VM, Nascimento IJDS, Nunes IC, Silva LR, Costa CACB, Freitas JD, Quintans-Júnior LJ, Araújo-Júnior JX, Freitas MEG, Zhan P, Green KD, Garneau-Tsodikova S, Mendonça-Júnior FJB, Rodrigues-Junior VS, Silva-Júnior EFD. **A consensus reverse docking approach for identification of a competitive inhibitor of acetyltransferase enhanced intracellular survival protein from Mycobacterium tuberculosis.** Bioorg Med Chem. 2024;108:117774. Epub 2024/06/04. doi: 10.1016/j.bmc.2024.117774. PubMed PMID: 38833750.

McCarter MR, De Long LE, Hastings T, Roy S. **Generation and applications of x-ray and extreme ultraviolet beams carrying orbital angular momentum.** J Phys Condens Matter. 2024. Epub 2024/06/04. doi: 10.1088/1361-648X/ad53b3. PubMed PMID: 38830374.

Olney KB, Olney WJ, McTigue SM, Howard JI, Stadler LP. **Things We Do for No Reason™: Prescribe cefdinir for treatment of common infections.** J Hosp Med. 2024. Epub 2024/06/02. doi: 10.1002/jhm.13415. PubMed PMID: 38824604.

El-Dalati S, Stoner BJ. **Accounting for the Discrepancies in Treatment Completion and SVR in OPPORTUNI-C.** Clin Infect Dis. 2024. Epub 2024/06/02. doi: 10.1093/cid/ciae296. PubMed PMID: 38824444.

Tay HC, Rezaei N, Hoover AG, Pennell KG. **Social ecological system framework as a decision-making tool for risk mitigation: A superfund site case study.** Sci Total Environ. 2024;939:173595. Epub 2024/05/30. doi: 10.1016/j.scitotenv.2024.173595. PubMed PMID: 38810738; PMCID: PMC11224932.

van Heule M, El-Sheikh Ali H, Monteiro HF, Scoggin K, Fedorka C, Weimer BC, Ball B, Daels P, Dini P. **Characterization of the equine placental microbial population during nocardioform placentitis.** Theriogenology. 2024;225:172-179. Epub 2024/05/30. doi: 10.1016/j.theriogenology.2024.05.025. PubMed PMID: 38810343.

Dangoudoubiyam S, Norris JK, Namasivayam S, de Paula Baptista R, Cannes do Nascimento N, Camp J, Schardl CL, Kissinger JC, Howe DK. **Temporal gene expression during asexual development of the apicomplexan *Sarcocystis neurona*.** mSphere. 2024;9(6):e0011124. Epub 2024/05/29. doi: 10.1128/msphere.00111-24. PubMed PMID: 38809064.

Li T, Shahabi S, Biswas T, Tsodikov OV, Pan W, Huang DB, Wang VY, Wang Y, Ghosh G. **Transient interactions modulate the affinity of NF-κB transcription factors for DNA.** Proc Natl Acad Sci U S A. 2024;121(23):e2405555121. Epub 2024/05/28. doi: 10.1073/pnas.2405555121. PubMed PMID: 38805268; PMCID: PMC11161749.

Mayer KP, Haezebrouck E, Ginoza LM, Martinez C, Jan M, Michener LA, Fresenko L, Montgomery-Yates AA, Kalema AG, Pastva AM, Biehl M, Mart MF, Johnson JK. **Early physical rehabilitation dosage in the IntensiveCare Unit predicts hospital outcomes after criticalCOVID-19.** Res Sq. 2024. Epub 2024/05/27. doi: 10.21203/rs.3.rs-4319133/v1. PubMed PMID: 38798477; PMCID: PMC11118711.

Kalantar GH, Saraswat S, SantaCruz-Calvo S, Gholamrezaeinejad F, Javidan A, Agrawal M, Liu R, Kern PA, Zhang XD, Nikolajczyk BS. **Fasting and Glucose Metabolism Differentially Impact Peripheral Inflammation in Human Type 2 Diabetes.** Nutrients. 2024;16(10). Epub 2024/05/25. doi: 10.3390/nu16101404. PubMed PMID: 38794641; PMCID: PMC11124302.

Naveed A, Eertink LG, Wang D, Li F. **Lessons Learned from West Nile Virus Infection:Vaccinations in Equines and Their Implications for One Health Approaches.** Viruses. 2024;16(5). Epub 2024/05/25. doi: 10.3390/v16050781. PubMed PMID: 38793662; PMCID: PMC11125849.

Hamond C, Adam EN, Stone NE, LeCount K, Anderson T, Putz EJ, Camp P, Hicks J, Stuber T, van der Linden H, Bayles DO, Sahl JW, Schlater LK, Wagner DM, Nally JE. **Identification of equine mares as reservoir hosts for pathogenic species of *Leptospira*.** Front Vet Sci. 2024;11:1346713. Epub 2024/05/24. doi: 10.3389/fvets.2024.1346713. PubMed PMID: 38784659; PMCID: PMC11112012.

Yan J, Nauen R, Reitz S, Alyokhin A, Zhang J, Mota-Sanchez D, Kim Y, Palli SR, Rondon SI, Nault BA, Jurat-Fuentes JL, Crossley MS, Snyder WE, Gatehouse AMR, Zalucki MP, Tabashnik BE, Gao Y. **The new kid on the block in insect pest management: sprayable RNAi goes commercial.** Sci China Life Sci. 2024. Epub 2024/05/24. doi: 10.1007/s11427-024-2612-1. PubMed PMID: 38782871.

Cinco IR, Napier EG, Rhoades NS, Davies MH, Allison DB, Kohama SG, Bermudez L, Winthrop K, Fuss C, Spindel ER, Messaoudi I. **Immunological and microbial shifts in the aging rhesus macaque lung during nontuberculous mycobacterial infection.** mBio. 2024;15(6):e0082924. Epub 2024/05/21. doi: 10.1128/mbio.00829-24. PubMed PMID: 38771046; PMCID: PMC11237422.

Zhang Z, Liu X, Hu B, Chen K, Yu Y, Sun C, Zhu D, Bai H, Palli SR, Tan A. **The mechanoreceptor Piezo is required for spermatogenesis in Bombyx mori.** BMC Biol. 2024;22(1):118. Epub 2024/05/21. doi: 10.1186/s12915-024-01916-y. PubMed PMID: 38769528; PMCID: PMC11106986.

Shaffer CL. **Discovering molecular paradigms of microbial carcinogenesis.** Nat Rev Microbiol. 2024;22(7):389. Epub 2024/05/21. doi: 10.1038/s41579-024-01060-y. PubMed PMID: 38769459.

Giessler KS, Goehring LS, Jacob SI, Davis A, Esser MM, Lee Y, Zarski LM, Weber PSD, Hussey GS. **Impact of the host immune response on the development of equine herpesvirus myeloencephalopathy in horses.** J Gen Virol. 2024;105(5). Epub 2024/05/20. doi: 10.1099/jgv.0.001987. PubMed PMID: 38767608; PMCID: PMC11170125.

Valentine Y, Nikolajczyk BS. **T cells in obesity-associated inflammation: The devil is in the details.** Immunol Rev. 2024. Epub 2024/05/20. doi: 10.1111/imr.13354. PubMed PMID: 38767210.

Sabbagh S, Adatorwovor R, Kirakodu S, Rojas-Ramirez MV, Al-Sabbagh M, Dawson D, Fernandes JG, Miguel MMV, Villasante-Tezanos A, Shaddox L. **Periodontal inflammatory and microbial profiles in healthy young African Americans and Caucasians.** J Clin Periodontol. 2024;51(7):895-904. Epub 2024/05/20. doi: 10.1111/jcpe.13989. PubMed PMID: 38763508; PMCID: PMC11182714.

Rockhold JD, Marszalkowski H, Sannella M, Gibney K, Murphy L, Zukowski E, Kalantar GH, SantaCruz-Calvo S, Hart SN, Kuhn MK, Yu J, Stefanik O, Chase G, Proctor EA, Hasturk H, Nikolajczyk BS, Bharath LP. **Everolimus alleviates CD4+ T cell inflammation by regulating autophagy and cellular redox homeostasis.** Geroscience. 2024. Epub 2024/05/18. doi: 10.1007/s11357-024-01187-z. PubMed PMID: 38761287.

Burus T, VanHelene AD, Rooney MK, Lang Kuhs KA, Christian WJ, McNair C, Mishra S, Paulino AC, Smith GL, Frank SJ, Warner JL. **Travel-Time Disparities in Access to Proton Beam Therapy for Cancer Treatment.** JAMA Netw Open. 2024;7(5):e2410670. Epub 2024/05/17. doi: 10.1001/jamanetworkopen.2024.10670. PubMed PMID: 38758559; PMCID: PMC11102024.

Gao Y, Alyokhin A, Zhang R, Smagghe G, Palli SR, Jurat-Fuentes JL, Tabashnik BE. **Proactive resistance management for sustaining the efficacy of RNA interference for pest control.** J Econ Entomol. 2024. Epub 2024/05/15. doi: 10.1093/jee/toae099. PubMed PMID: 38748467.

Rahman MM, Zamakhaeva S, Rush JS, Chaton CT, Kenner CW, Hla YM, Tsui HT, Uversky VN, Winkler ME, Korotkov KV, Korotkova N. ***O*-glycosylation of intrinsically disordered regions regulates homeostasis of membrane proteins in streptococci.** bioRxiv. 2024. Epub 2024/05/15. doi: 10.1101/2024.05.05.592596. PubMed PMID: 38746434; PMCID: PMC11092751.

Jia Q, Yang L, Wen J, Liu S, Wen D, Luo W, Wang W, Palli SR, Sheng L. **Cyp6g2 is the major P450 epoxidase responsible for juvenile hormone biosynthesis in Drosophila melanogaster.** BMC Biol. 2024;22(1):111. Epub 2024/05/14. doi: 10.1186/s12915-024-01910-4. PubMed PMID: 38741075; PMCID: PMC11092216.

Haque PS, Kapur N, Barrett TA, Theiss AL. **Mitochondrial function and gastrointestinal diseases.** Nat Rev Gastroenterol Hepatol. 2024. Epub 2024/05/14. doi: 10.1038/s41575-024-00931-2. PubMed PMID: 38740978.

Hammerslag LR, Talbert J, Slavova S, Lei F, Freeman PR, Marks KR, Fanucchi LC, Walsh SL, Lofwall MR. **Utilization of long-acting injectable monthly depot buprenorphine for opioid use disorder (OUD) in Kentucky, before and after COVID-19 related buprenorphine access policy changes.** J Subst Use Addict Treat. 2024;164:209391. Epub 2024/05/14. doi: 10.1016/j.josat.2024.209391. PubMed PMID: 38740189.

Yu J, Wen Z, Hu W, Chen M, Zhang Y, Liu S, Wang G, Wang Z, Wang D, Zhai SL, Wei WK, Li T, Liao M. **Influenza D virus infection in China, 2022-2023.** Emerg Microbes Infect. 2024;13(1):2343907. Epub 2024/05/13. doi: 10.1080/22221751.2024.2343907. PubMed PMID: 38738553; PMCID: PMC11097708.

Upton EM, LaRocca J, Rudolph AE, Young AM, Havens JR. **Examining the social and behavioral dynamics of substance use in a longitudinal network study in rural Appalachia.** Addict Behav. 2024;156:108060. Epub 2024/05/13. doi: 10.1016/j.addbeh.2024.108060. PubMed PMID: 38735160; PMCID: PMC11181469.

El-Dalati S, Sinner G, Leung S, Reda H, Sekela M, Heier K, Alnabelsi T. **Comparison of Medical Therapy, Valve Surgery, and Percutaneous Mechanical Aspiration for Tricuspid Valve Infective Endocarditis.** Am J Med. 2024. Epub 2024/05/11. doi: 10.1016/j.amjmed.2024.04.031. PubMed PMID: 38729593.

DiPrete BL, Oh G, Moga DC, Dasgupta N, Slavova S, Slade E, Delcher C, Pence BW, Ranapurwala SI. **Matching study design to prescribing intention: The prevalent new-user design for studying abuse-deterrent formulations of opioids.** Pharmacoepidemiol Drug Saf. 2024;33(5):e5805. Epub 2024/05/09. doi: 10.1002/pds.5805. PubMed PMID: 38720402.

Matthews LT, Owembabazi M, Tukwasibwe D, Najjuma A, Muyindike W, Tumwine JM, Hornstein B, Bassler J, Long D, Gill E, Young C, Chitneni P, Psaros C, Kanyesigye M, Kato Kalyebara P, Kaida A, Bwana M. **Implementation of a safer conception programme for HIV-affected men and women in rural Uganda.** Glob Public Health. 2024;19(1):2342023. Epub 2024/05/08. doi: 10.1080/17441692.2024.2342023. PubMed PMID: 38718285.

Jahangir T, Fuller GK, Livingston MD, Freeman E, Fanucchi LC, Fallin-Bennett A, Cooper HLF, Young AM. **Syringe reuse among people who inject drugs in rural Appalachian Kentucky.** Int J Drug Policy. 2024;128:104422. Epub 2024/05/05. doi: 10.1016/j.drugpo.2024.104422. PubMed PMID: 38703621; PMCID: PMC11213664.

Gaddelapati SC, George S, Moola A, Sengodan K, Palli SR. **N(alpha)-acetyltransferase 40-mediated histone acetylation plays an important role in ecdysone regulation of metamorphosis in the red flour beetle, Tribolium castaneum.** Commun Biol. 2024;7(1):521. Epub 2024/05/04. doi: 10.1038/s42003-024-06212-7. PubMed PMID: 38702540; PMCID: PMC11068786.

Campos AS, Franco AC, Godinho F, Huff R, da Cruz Cardoso J, Morais P, Franceschina C, de Lima Bermann T, Dos Santos FM, Bauermann M, Selayaran TM, Ruivo AP, Santin C, Bonella J, Rodenbusch C, Ferreira JC, Weaver SC, Gewehr VR, Wallau GL, de Souza WM, Salvato RS. **Molecular epidemiology of Western equine encephalitis virus in Brazil, 2023-2024.** medRxiv. 2024. Epub 2024/05/03. doi: 10.1101/2024.04.15.24305848. PubMed PMID: 38699354; PMCID: PMC11065024.

Thomas JK, Clark J, Arora V, Burgess DS, Burgess DR, Mynatt RP, VanHoose JD, Wallace KL, Cotner SE. **Performance of ePlex® blood culture identification panels in clinical isolates and characterization of antimicrobial stewardship opportunities.** Diagn Microbiol Infect Dis. 2024;109(3):116269. Epub 2024/05/02. doi: 10.1016/j.diagmicrobio.2024.116269. PubMed PMID: 38692201.

Gao R, Feng C, Sheng Z, Li F, Wang D. **Research progress in Fc-effector functions against SARS-CoV-2.** J Med Virol. 2024;96(5):e29638. Epub 2024/04/29. doi: 10.1002/jmv.29638. PubMed PMID: 38682662.

Hassan SA, Kapur N, Sheikh F, Fahad A, Jamal S. **Disease clearance in ulcerative colitis: A new therapeutic target for the future.** World J Gastroenterol. 2024;30(13):1801-1809. Epub 2024/04/25. doi: 10.3748/wjg.v30.i13.1801. PubMed PMID: 38659483; PMCID: PMC11036494.

Rudolph AE, Nance RM, Bobashev G, Brook D, Akhtar W, Cook R, Cooper HL, Friedmann PD, Frost SDW, Go VF, Jenkins WD, Korthuis PT, Miller WC, Pho MT, Ruderman SA, Seal DW, Stopka TJ, Westergaard RP, Young AM, Zule WA, Tsui JI, Crane HM, Whitney BM, Delaney JAC. **Evaluation of respondent-driven sampling in seven studies of people who use drugs from rural populations: findings from the Rural Opioid Initiative.** BMC Med Res Methodol. 2024;24(1):94. Epub 2024/04/24. doi: 10.1186/s12874-024-02206-5. PubMed PMID: 38654219; PMCID: PMC11036624.

Brandon HH, Romanelli F. **The North American Pharmacist Licensure Examination (NAPLEX) Pass Rate Conundrum.** Am J Pharm Educ. 2024;88(5):100701. Epub 2024/04/20. doi: 10.1016/j.ajpe.2024.100701. PubMed PMID: 38641172.

Glasgow L, Douglas C, Sprunger JG, Campbell ANC, Chandler R, Dasgupta A, Holloway J, Marks KR, Roberts SM, Martinez LS, Thompson K, Weiss RD, Aldridge A, Asman K, Barbosa C, Blevins D, Chassler D, Cogan L, Fanucchi L, Hall ME, Hunt T, Jadovich E, Levin FR, Lincourt P, Lofwall MR, Loukas V, McAlearney AS, Nunes E, Oga E, Oller D, Rudorf M, Sullivan AM, Talbert J, Taylor A, Teater J, Vandergrift N, Woodlock K, Zarkin GA, Freisthler B, Samet JH, Walsh SL, El-Bassel N. **Effect of the Communities that HEAL intervention on receipt of behavioral therapies for opioid use disorder: A cluster randomized wait-list controlled trial.** Drug Alcohol Depend. 2024;259:111286. Epub 2024/04/17. doi: 10.1016/j.drugalcdep.2024.111286. PubMed PMID: 38626553.

Ebersole JL, Kirakodu SS, Nguyen LM, Gonzalez OA. **Transcriptomic features of programmed and inflammatory cell death in gingival tissues.** Oral Dis. 2024. Epub 2024/04/16. doi: 10.1111/odi.14939. PubMed PMID: 38623775.

Yun DH, Plymale MA, Oyler DR, Slavova SS, Davenport DL, Roth JS. **Predictors of postoperative opioid use in ventral and incisional hernia repair.** Surg Endosc. 2024. Epub 2024/04/13. doi: 10.1007/s00464-024-10808-9. PubMed PMID: 38609586.

Mowery MA, Rosenwald LC, Chapman E, Lubin Y, Segoli M, Khoza T, Lyle R, White JA. **Endosymbiont diversity across native and invasive brown widow spider populations.** Sci Rep. 2024;14(1):8556. Epub 2024/04/13. doi: 10.1038/s41598-024-58723-2. PubMed PMID: 38609398; PMCID: PMC11014918.

Mefford B, Wallace KL, Donaldson JC, Bissell Turpin BD, Sen P, Schadler AD, Liu LJ, Thompson Bastin ML. **Effect modification of dosing strategy (AUC or trough) on AKI associated with vancomycin in combination with piperacillin/tazobactam or cefepime and meropenem.** Antimicrob Agents Chemother. 2024;:e0108523. Epub 2024/04/12. doi: 10.1128/aac.01085-23. PubMed PMID: 38606975.

Nielsen MK, Finnerty CA, Ripley NE, Page AE, McClendon ME, Adams AA. **Ivermectin performance in horses diagnosed with equine endocrine disorders.** Vet Parasitol. 2024;328:110182. Epub 2024/04/12. doi: 10.1016/j.vetpar.2024.110182. PubMed PMID: 38603925.

Radka CD, Frank MW, Simmons TS, Johnson CN, Rosch JW, Rock CO. ***Staphylococcus aureus* oleate hydratase produces ligands that activate host PPARα.** Front Cell Infect Microbiol. 2024;14:1352810. Epub 2024/04/11. doi: 10.3389/fcimb.2024.1352810. PubMed PMID: 38601738; PMCID: PMC11004285.

Combs T, Stoner BJ, McCoy P, Reda H, Sekela M, El-Dalati S. **Invasive *Candida* Infection in Patients With Bacterial Infective Endocarditis.** Open Forum Infect Dis. 2024;11(4):ofae179. Epub 2024/04/10. doi: 10.1093/ofid/ofae179. PubMed PMID: 38595952; PMCID: PMC11002945.

Hart SN, Lenin R, Sturgill J, Kern PA, Nikolajczyk B. **MITOCHONDRIA-ASSOCIATED MEMBRANES ARE NOT ALTERED IN IMMUNE CELLS IN T2D.** bioRxiv. 2024. Epub 2024/04/08. doi: 10.1101/2024.03.25.586170. PubMed PMID: 38585802; PMCID: PMC10996535.

El-Dalati S, Castillo MRC, Strnad L, Reda H, London T, Sekela M, Stoner BJ. **Shared Decision-Making for Partial Oral Antibiotic Treatment of Infective Endocarditis: A Case Series.** Open Forum Infect Dis. 2024;11(4):ofae166. Epub 2024/04/08. doi: 10.1093/ofid/ofae166. PubMed PMID: 38585184; PMCID: PMC10996124.

Koo J, Zhu GH, Palli SR. **CRISPR-Cas9 mediated dsRNase knockout improves RNAi efficiency in the fall armyworm.** Pestic Biochem Physiol. 2024;200:105839. Epub 2024/04/07. doi: 10.1016/j.pestbp.2024.105839. PubMed PMID: 38582601.

Rutt LN, Liu M, Melamed E, Twardy S, Sturgill JL, Brenner LA, Hardesty J, Weinman SA, Tschann MM, Travers J, Welsh DA, Chichetto N, Crotty KM, Mackowiak B, Yeligar SM, Wyatt TA, McMahan RH, Choudry MA, Kovacs EJ, McCullough RL. **Emerging Concepts in Alcohol, Infection & Immunity: A summary of the 2023 Alcohol and Immunology Research Interest Group (AIRIG) meeting.** Alcohol. 2024. Epub 2024/04/07. doi: 10.1016/j.alcohol.2024.04.002. PubMed PMID: 38582261.

Collins RT, Schadler A, Huang H, Day SB, Bauer JA. **Impact of burnout and professional fulfillment on intent to leave among pediatric physicians: The findings of a quality improvement initiative.** BMC Health Serv Res. 2024;24(1):434. Epub 2024/04/06. doi: 10.1186/s12913-024-10842-2. PubMed PMID: 38580940; PMCID: PMC10998309.

Oyler DR, Westgate PM, Walsh SL, Dolly Prothro J, Miller CS, Roberts MF, Freeman PR, Knudsen HK, Lang M, Dominguez-Fernandez E, Rojas-Ramirez MV. **Alternatives to dental opioid prescribing after tooth extraction (ADOPT): protocol for a stepped wedge cluster randomized trial.** BMC Oral Health. 2024;24(1):414. Epub 2024/04/05. doi: 10.1186/s12903-024-04201-0. PubMed PMID: 38575929; PMCID: PMC10996080.

Burus T, Damgacioglu H, Huang B, Christian WJ, Hull PC, Ellis AR, Arnold SM, Deshmukh AA, Lang Kuhs KA. **Trends in Oral Tongue Cancer Incidence in the US.** JAMA Otolaryngol Head Neck Surg. 2024. Epub 2024/04/04. doi: 10.1001/jamaoto.2024.0301. PubMed PMID: 38573630.

White CL, Glover MA, Gandhapudi SK, Richards KA, Sant AJ. **Flublok Quadrivalent Vaccine Adjuvanted with R-DOTAP Elicits a Robust and Multifunctional CD4 T Cell Response That Is of Greater Magnitude and Functional Diversity Than Conventional Adjuvant Systems.** Vaccines (Basel). 2024;12(3). Epub 2024/03/28. doi: 10.3390/vaccines12030281. PubMed PMID: 38543915; PMCID: PMC10975948.

Sengupta P, Chattopadhyay S. **Interferons in Viral Infections.** Viruses. 2024;16(3). Epub 2024/03/28. doi: 10.3390/v16030451. PubMed PMID: 38543816; PMCID: PMC10974426.

Abouelela ME, Helmy YA. **Next-Generation Probiotics as Novel Therapeutics for Improving Human Health: Current Trends and Future Perspectives.** Microorganisms. 2024;12(3). Epub 2024/03/28. doi: 10.3390/microorganisms12030430. PubMed PMID: 38543481; PMCID: PMC10972033.

Brandon HH, Burgess DS, Wallace KL, Autry EB, Olney KB. **Vancomycin AUC0-24 estimation using first-order pharmacokinetic methods in pediatric patients.** Pharmacotherapy. 2024. Epub 2024/03/27. doi: 10.1002/phar.2916. PubMed PMID: 38533999.

Jusufovic N, Krusenstjerna AC, Savage CR, Saylor TC, Brissette CA, Zückert WR, Schlax PJ, Motaleb MA, Stevenson B. **Borrelia burgdorferi PlzA is a cyclic-di-GMP dependent DNA and RNA binding protein.** Mol Microbiol. 2024. Epub 2024/03/26. doi: 10.1111/mmi.15254. PubMed PMID: 38527857.

Frederiksen EH, Ramirez MVR, Moreno-Hay I, Miller CS, Carlson CR. **Whole unstimulated salivary flow rate decreases during acute stressful condition.** Oral Surg Oral Med Oral Pathol Oral Radiol. 2024. Epub 2024/03/24. doi: 10.1016/j.oooo.2024.02.028. PubMed PMID: 38521649.

Lin W, Nagy PD. **Co-opted cytosolic proteins form condensate substructures within membranous replication organelles of a positive-strand RNA virus.** New Phytol. 2024. Epub 2024/03/22. doi: 10.1111/nph.19691. PubMed PMID: 38515267.

Wang J, Huffman D, Ajwad A, McLouth CJ, Bachstetter A, Kohler K, Murphy MP, O'Hara BF, Duncan MJ, Sunderam S. **Thermoneutral Temperature Exposure Enhances Slow Wave Sleep with a Correlated Improvement in Amyloid Pathology in a Triple-Transgenic Mouse Model of Alzheimer's Disease.** Sleep. 2024. Epub 2024/03/21. doi: 10.1093/sleep/zsae078. PubMed PMID: 38512801.

Davis A, Knudsen HK, Walker DM, Chassler D, Lunze K, Westgate PM, Oga E, Rodriguez S, Tan S, Holloway J, Walsh SL, Oser CB, Lefebvre RC, Fanucchi LC, Glasgow L, McAlearney AS, Surratt HL, Konstan MW, Huang TT, LeBaron P, Nakayima J, Stein MD, Rudorf M, Nouvong M, Kinnard EN, El-Bassel N, Tilley J, Macoubray A, Savitzky C, Farmer A, Beers D, Salsberry P, Huerta TR. **Effects of the Communities that Heal (CTH) intervention on perceived opioid-related community stigma in the HEALing Communities Study: results of a multi-site, community-level, cluster-randomized trial.** Lancet Reg Health Am. 2024;32:100710. Epub 2024/03/21. doi: 10.1016/j.lana.2024.100710. PubMed PMID: 38510790; PMCID: PMC10950860.

Greenblatt RJ, Bauler TJ, Higgins BP, Chamberlain NR, Kerry JA. **Proceedings of the 18th Microbiology and Immunology Educational Strategies Workshop, July 18-22, 2022.** Med Sci Educ. 2024;34(1):277-278. Epub 2024/03/21. doi: 10.1007/s40670-024-01998-x. PubMed PMID: 38510396; PMCID: PMC10948716.

Fan S, Popli S, Chakravarty S, Chakravarti R, Chattopadhyay S. **Non-transcriptional IRF7 interacts with NF-κB to inhibit viral inflammation.** J Biol Chem. 2024;:107200. Epub 2024/03/21. doi: 10.1016/j.jbc.2024.107200. PubMed PMID: 38508315.

Liu X, Mohtasebi M, Safavi P, Fathi F, Haratbar SR, Chen L, Chen J, Bada HS, Chen L, Abu Jawdeh EG, Yu G. **Wearable fiber-free optical sensor for continuous monitoring of neonatal cerebral blood flow and oxygenation.** Pediatr Res. 2024. Epub 2024/03/20. doi: 10.1038/s41390-024-03137-z. PubMed PMID: 38503982.

Olney KB, Howard JI, Burgess DS. **Daptomycin Dose Optimization in Pediatric Staphylococcus aureus Bacteremia: A Pharmacokinetic/Pharmacodynamic Investigation.** J Clin Pharmacol. 2024. Epub 2024/03/18. doi: 10.1002/jcph.2425. PubMed PMID: 38497326.

Lunn DP, Burgess BA, Dorman DC, Goehring LS, Gross P, Osterrieder K, Pusterla N, Soboll Hussey G. **Updated ACVIM consensus statement on equine herpesvirus-1.** J Vet Intern Med. 2024. Epub 2024/03/18. doi: 10.1111/jvim.17047. PubMed PMID: 38497217.

de Souza WM, Weaver SC. **Effects of climate change and human activities on vector-borne diseases.** Nat Rev Microbiol. 2024. Epub 2024/03/15. doi: 10.1038/s41579-024-01026-0. PubMed PMID: 38486116.

Stopka TJ, Estadt AT, Leichtling G, Schleicher JC, Mixson LS, Bresett J, Romo E, Dowd P, Walters SM, Young AM, Zule W, Friedmann PD, Go VF, Baker R, Fredericksen RJ. **Barriers to opioid use disorder treatment among people who use drugs in the rural United States: A qualitative, multi-site study.** Soc Sci Med. 2024;346:116660. Epub 2024/03/15. doi: 10.1016/j.socscimed.2024.116660. PubMed PMID: 38484417.

Kang Y, Lin W, Nagy PD. **Subversion of selective autophagy for the biogenesis of tombusvirus replication organelles inhibits autophagy.** PLoS Pathog. 2024;20(3):e1012085. Epub 2024/03/14. doi: 10.1371/journal.ppat.1012085. PubMed PMID: 38484009.

de Souza WM, Fumagalli MJ, de Lima STS, Parise PL, Carvalho DCM, Hernandez C, de Jesus R, Delafiori J, Candido DS, Carregari VC, Muraro SP, Souza GF, Simões Mello LM, Claro IM, Díaz Y, Kato RB, Trentin LN, Costa CHS, Maximo ACBM, Cavalcante KF, Fiuza TS, Viana VAF, Melo MEL, Ferraz CPM, Silva DB, Duarte LMF, Barbosa PP, Amorim MR, Judice CC, Toledo-Teixeira DA, Ramundo MS, Aguilar PV, Araújo ELL, Costa FTM, Cerqueira-Silva T, Khouri R, Boaventura VS, Figueiredo LTM, Fang R, Moreno B, López-Vergès S, Mello LP, Skaf MS, Catharino RR, Granja F, Martins-de-Souza D, Plante JA, Plante KS, Sabino EC, Diamond MS, Eugenin E, Proença-Módena JL, Faria NR, Weaver SC. **Pathophysiology of chikungunya virus infection associated with fatal outcomes.** Cell Host Microbe. 2024. Epub 2024/03/14. doi: 10.1016/j.chom.2024.02.011. PubMed PMID: 38479396.

Palli SR. **RNAi turns 25:contributions and challenges in insect science.** Front Insect Sci. 2023;3:1209478. Epub 2024/03/12. doi: 10.3389/finsc.2023.1209478. PubMed PMID: 38469536; PMCID: PMC10926446.

Sahoo BR, Subramanian V, Bardwell JCA. **Backbone 1H, 13C, and 15N chemical shift assignments for human SERF2.** Biomol NMR Assign. 2024. Epub 2024/03/11. doi: 10.1007/s12104-024-10167-5. PubMed PMID: 38466543.

Jose A, Kulkarni P, Thilakan J, Munisamy M, Malhotra AG, Singh J, Kumar A, Rangnekar VM, Arya N, Rao M. **Integration of pan-omics technologies and three-dimensional in vitro tumor models: an approach toward drug discovery and precision medicine.** Mol Cancer. 2024;23(1):50. Epub 2024/03/10. doi: 10.1186/s12943-023-01916-6. PubMed PMID: 38461268.

Orom H, Ramer NE, Allard NC, McQueen A, Waters EA, Kiviniemi MT, Hay JL. **Colorectal cancer information avoidance is associated with screening adherence.** J Behav Med. 2024. Epub 2024/03/09. doi: 10.1007/s10865-024-00482-6. PubMed PMID: 38460064.

Sangalli L, Prakapenka AV, Chaurasia A, Miller CS. **A review of animal models for burning mouth syndrome: Mechanistic insights and knowledge gaps.** Oral Dis. 2024. Epub 2024/03/05. doi: 10.1111/odi.14914. PubMed PMID: 38438317.

Havens JR, Lofwall MR, Young AM, Staton M, Schaninger T, Fraser H, Vickerman P, Walsh SL. **Predictors of engagement in screening for a hepatitis C virus (HCV) treatment trial in a rural Appalachian community.** J Viral Hepat. 2024. Epub 2024/03/04. doi: 10.1111/jvh.13933. PubMed PMID: 38436098.

Cox WC, Harrell TK, Brock TP, Romanelli F, Buring SM. **Letter to the Editor.** Am J Pharm Educ. 2024;:100680. Epub 2024/03/04. doi: 10.1016/j.ajpe.2024.100680. PubMed PMID: 38432402.

Young AM, Havens JR, Cooper HLF, Fallin-Bennett A, Fanucchi L, Freeman PR, Knudsen H, Livingston MD, McCollister KE, Stone J, Vickerman P, Freeman E, Jahangir T, Larimore E, White CR, Cheatom C, Community Staff K, Design Team K. **Kentucky Outreach Service Kiosk (KyOSK) Study protocol: a community-level, controlled quasi-experimental, type 1 hybrid effectiveness study to assess implementation, effectiveness and cost-effectiveness of a community-tailored harm reduction kiosk on HIV, HCV and overdose risk in rural Appalachia.** BMJ Open. 2024;14(3):e083983. Epub 2024/03/03. doi: 10.1136/bmjopen-2024-083983. PubMed PMID: 38431295; PMCID: PMC10910671.

Moffitt T, Fallin-Bennett A, Fanucchi L, Walsh SL, Cook C, Oller D, Ross A, Gallivan M, Lauckner J, Byard J, Wheeler-Crum P, Lofwall MR. **The development of a recovery coaching training curriculum to facilitate linkage to and increase retention on medications for opioid use disorder.** Front Public Health. 2024;12:1334850. Epub 2024/03/01. doi: 10.3389/fpubh.2024.1334850. PubMed PMID: 38425462; PMCID: PMC10903364.

Omami G, Miller CS. **Imaging Evaluation of the Temporomandibular Joint.** Dent Clin North Am. 2024;68(2):357-373. Epub 2024/02/29. doi: 10.1016/j.cden.2023.10.001. PubMed PMID: 38417995.

Tucker JS, Khan H, D'Orazio SEF. **Lymph node stromal cells vary in susceptibility to infection but can support the intracellular growth of Listeria monocytogenes.** J Leukoc Biol. 2024. Epub 2024/02/28. doi: 10.1093/jleuko/qiae040. PubMed PMID: 38416405.

Ghoniem AA, Elattar KM, Al-Otibi FO, Elsayed A, El-Hersh MS, El-Khateeb AY, Helmy YA, Saber WIA. **Turmeric extract-mediated biogenic synthesis of Ag@SeO2 magnetic nanoparticles: characterization, optimization, antibacterial and antioxidant activities.** RSC Adv. 2024;14(10):7088-7111. Epub 2024/02/28. doi: 10.1039/d4ra00004h. PubMed PMID: 38414990; PMCID: PMC10897959.

Jalali E, Wang F, Overbay BR, Miller MD, Shaaban KA, Ponomareva LV, Ye Q, Saghaeiannejad-Esfahani H, Bhardwaj M, Steele AD, Teijaro CN, Shen B, Van Lanen SG, She QB, Voss SR, Phillips GN, Thorson JS. **Biochemical and Structural Studies of the Carminomycin 4-*O*-Methyltransferase DnrK.** J Nat Prod. 2024. Epub 2024/02/27. doi: 10.1021/acs.jnatprod.3c00947. PubMed PMID: 38412432.

Abdelaziz K, Helmy YA, Yitbarek A, Hodgins DC, Sharafeldin TA, Selim MSH. **Advances in Poultry Vaccines: Leveraging Biotechnology for Improving Vaccine Development, Stability, and Delivery.** Vaccines (Basel). 2024;12(2). Epub 2024/02/24. doi: 10.3390/vaccines12020134. PubMed PMID: 38400118; PMCID: PMC10893217.

Burus T, Lei F, Huang B, Christian WJ, Hull PC, Ellis AR, Slavova S, Tucker TC, Lang Kuhs KA. **Undiagnosed Cancer Cases in the US During the First 10 Months of the COVID-19 Pandemic.** JAMA Oncol. 2024. Epub 2024/02/22. doi: 10.1001/jamaoncol.2023.6969. PubMed PMID: 38386344; PMCID: PMC10884945.

Stopka TJ, Babineau DC, Gibson EB, Knott CE, Cheng DM, Villani J, Wai JM, Blevins D, David JL, Goddard-Eckrich DA, Lofwall MR, Massatti R, DeFiore-Hyrmer J, Lyons MS, Fanucchi LC, Harris DR, Talbert J, Hammerslag L, Oller D, Balise RR, Feaster DJ, Soares W, Zarkin GA, Glasgow L, Oga E, McCarthy J, D'Costa L, Chahine R, Gomori S, Dalvi N, Shrestha S, Garner C, Shadwick A, Salsberry P, Konstan MW, Freisthler B, Winhusen J, El-Bassel N, Samet JH, Walsh SL. **Impact of the Communities That HEAL Intervention on Buprenorphine-Waivered Practitioners and Buprenorphine Prescribing: A Prespecified Secondary Analysis of the HCS Randomized Clinical Trial.** JAMA Netw Open. 2024;7(2):e240132. Epub 2024/02/22. doi: 10.1001/jamanetworkopen.2024.0132. PubMed PMID: 38386322; PMCID: PMC10884876.

Goehring L, Dorman DC, Osterrieder K, Burgess BA, Dougherty K, Gross P, Neinast C, Pusterla N, Soboll-Hussey G, Lunn DP. **Pharmacologic interventions for the treatment of equine herpesvirus-1 in domesticated horses: A systematic review.** J Vet Intern Med. 2024. Epub 2024/02/21. doi: 10.1111/jvim.17016. PubMed PMID: 38380685.

Uprety T, Yu J, Nogales A, Naveed A, Yu H, Chen X, Liu Y, Bowman AS, Martinez-Sobrido L, Parrish CR, Melikyan GB, Wang D, Li F. **Influenza D virus utilizes both 9-*O*-acetylated *N*-acetylneuraminic and 9-*O*-acetylated *N*-glycolylneuraminic acids as functional entry receptors.** J Virol. 2024;:e0004224. Epub 2024/02/20. doi: 10.1128/jvi.00042-24. PubMed PMID: 38376198.

Sim MMS, Mollica MY, Alfar HR, Hollifield M, Chung DW, Fu X, Gandhapudi S, Coenen DM, Prakhya KS, Mahmood DFD, Banerjee M, Peng C, Li X, Thornton AC, Porterfield JZ, Sturgill JL, Sievert GA, Barton-Baxter M, Zheng Z, Campbell KS, Woodward JG, López JA, Whiteheart SW, Garvy BA, Wood JP. **Unfolded Von Willebrand Factor Binds Protein S and Reduces Anticoagulant Activity.** bioRxiv. 2024. Epub 2024/02/19. doi: 10.1101/2024.02.08.579463. PubMed PMID: 38370737; PMCID: PMC10871343.

Tully DC, Power KA, Sarette J, Stopka TJ, Friedmann PD, Korthuis PT, Cooper H, Young AM, Seal DW, Westergaard RP, Allen TM. **Validation of dried blood spots for capturing hepatitis C virus diversity for genomic surveillance.** J Viral Hepat. 2024. Epub 2024/02/17. doi: 10.1111/jvh.13924. PubMed PMID: 38366329.

McLaurin KA, Li H, Khalili K, Mactutus CF, Booze RM. **HIV-1 mRNA knockdown with CRISPR/CAS9 enhances neurocognitive function.** J Neurovirol. 2024. Epub 2024/02/15. doi: 10.1007/s13365-024-01193-z. PubMed PMID: 38355914.

Rivera LF, Lezcano-Coba C, Galué J, Rodriguez X, Juarez Y, de Souza WM, Capitan-Barrios Z, Valderrama A, Abrego L, Cedeño H, Jackman C, Waggoner JJ, Aguilar PV, Guzman H, Weaver SC, Tesh RB, López-Vèrges S, Donnelly CA, Estofolete CF, Nogueira ML, Faria NR, Vasilakis N, Vittor AY, Smith DR, Carrera JP. **Clinical and epidemiological characteristics of Madariaga and Venezuelan equine encephalitis virus infections.** medRxiv. 2024. Epub 2024/02/14. doi: 10.1101/2024.02.02.24302220. PubMed PMID: 38352566; PMCID: PMC10863014.

Lewis JS, Naegele S, Efthymiou V, Mehrad M, Ely KA, Waterboer T, Lang Kuhs KA, Davis SJ, Richard K, Das D, Faden DL. **Assessing the feasibility of a multimodal liquid biopsy for the diagnosis of HPV-associated oropharyngeal squamous cell carcinoma.** Am J Clin Pathol. 2024. Epub 2024/02/13. doi: 10.1093/ajcp/aqad185. PubMed PMID: 38349613.

Zhang Y, Hunter JR, Ullah A, Shao Q, Shi J. **Lignin derived hydrophobic deep eutectic solvents for the extraction of nanoplastics from water.** J Hazard Mater. 2024;467:133695. Epub 2024/02/12. doi: 10.1016/j.jhazmat.2024.133695. PubMed PMID: 38341895.

El Zowalaty ME, Falgenhauer L, Ashour HM, Zishiri OT, Forsythe S, Helmy YA. **Draft genome sequences of *Bacillus licheniformis* strains MEZBL63 and MEZBL64 harboring the lichenysin toxin operon isolated from livestock in South Africa.** Microbiol Resour Announc. 2024;:e0096723. Epub 2024/02/07. doi: 10.1128/mra.00967-23. PubMed PMID: 38323846.

Realini FM, Escobedo VM, Ueno AC, Bastías DA, Schardl CL, Biganzoli F, Gundel PE. **Anti-herbivory defenses delivered by Epichloë fungal endophytes: a quatitative review of alkaloid concentration variation among hosts and plant parts.** Ann Bot. 2024. Epub 2024/02/06. doi: 10.1093/aob/mcae014. PubMed PMID: 38320313.

Yanai H, Park B, Koh H, Jang HJ, Vaughan KL, Tanaka-Yano M, Aon M, Blanton M, Messaoudi I, Diaz-Ruiz A, Mattison JA, Beerman I. **Short-term periodic restricted feeding elicits metabolome-microbiome signatures with sex dimorphic persistence in primate intervention.** Nat Commun. 2024;15(1):1088. Epub 2024/02/06. doi: 10.1038/s41467-024-45359-z. PubMed PMID: 38316796; PMCID: PMC10844192.

Radka CD, Rock CO. **Crystal structures of the fatty acid biosynthesis initiation enzymes in Bacillus subtilis.** J Struct Biol. 2024;216(1):108065. Epub 2024/02/05. doi: 10.1016/j.jsb.2024.108065. PubMed PMID: 38310992.

Mercado-Evans V, Mejia ME, Zulk JJ, Ottinger S, Hameed ZA, Serchejian C, Marunde MG, Robertson CM, Ballard MB, Ruano SH, Korotkova N, Flores AR, Pennington KA, Patras KA. **Gestational diabetes augments group B Streptococcus infection by disrupting maternal immunity and the vaginal microbiota.** Nat Commun. 2024;15(1):1035. Epub 2024/02/04. doi: 10.1038/s41467-024-45336-6. PubMed PMID: 38310089; PMCID: PMC10838280.

Bruno MEC, Mukherjee S, Sturgill JL, Cornea V, Yeh P, Hawk GS, Saito H, Starr ME. **PAI-1 as a critical factor in the resolution of sepsis and acute kidney injury in old age.** Front Cell Dev Biol. 2023;11:1330433. Epub 2024/02/02. doi: 10.3389/fcell.2023.1330433. PubMed PMID: 38304613; PMCID: PMC10830627.

de Souza WM, Ribeiro GS, de Lima STS, de Jesus R, Moreira FRR, Whittaker C, Sallum MAM, Carrington CVF, Sabino EC, Kitron U, Faria NR, Weaver SC. **Chikungunya: a decade of burden in the Americas.** Lancet Reg Health Am. 2024;30:100673. Epub 2024/01/29. doi: 10.1016/j.lana.2023.100673. PubMed PMID: 38283942; PMCID: PMC10820659.

Nguyen MT, Duan Y, Shao Q. **Effect of Zwitterionic Additives on Solvation and Transport of Sodium and Potassium Cations in (Ethylene Oxide)10: A Molecular Dynamics Simulation Study.** Nanomaterials (Basel). 2024;14(2). Epub 2024/01/26. doi: 10.3390/nano14020219. PubMed PMID: 38276737; PMCID: PMC10818316.

Masuda D, Nakanishi I, Ohkubo K, Ito H, Matsumoto KI, Ichikawa H, Chatatikun M, Klangbud WK, Kotepui M, Imai M, Kawakami F, Kubo M, Matsui H, Tangpong J, Ichikawa T, Ozawa T, Yen HC, St Clair DK, Indo HP, Majima HJ. **Mitochondria Play Essential Roles in Intracellular Protection against Oxidative Stress-Which Molecules among the ROS Generated in the Mitochondria Can Escape the Mitochondria and Contribute to Signal Activation in Cytosol?.** Biomolecules. 2024;14(1). Epub 2024/01/26. doi: 10.3390/biom14010128. PubMed PMID: 38275757; PMCID: PMC10813015.

Waters EA, Pogge G, Orom H, Kiviniemi MT, Hay JL, Lewicka M, Allard NC, Webster GD, Shepperd JA. **I don't know my child's asthma risk: evidence against satisficing as an explanation for 'don't know' responses.** J Risk Res. 2023;26(12):1370-1382. Epub 2024/01/26. doi: 10.1080/13669877.2023.2288006. PubMed PMID: 38274030; PMCID: PMC10810301.

Robertson NM, Mangino AA, South AM, Fanucchi LC. **Medications for opioid use disorder associated with reduced readmissions for patients with severe injection-related infections: A matched cohort study.** J Subst Use Addict Treat. 2024;160:209298. Epub 2024/01/24. doi: 10.1016/j.josat.2024.209298. PubMed PMID: 38262559.

Franco JH, Harris RA, Ryan WG, Taylor RT, McCullumsmith RE, Chattopadhyay S, Pan ZK. **Retinoic Acid-Mediated Inhibition of Mouse Coronavirus Replication Is Dependent on IRF3 and CaMKK.** Viruses. 2024;16(1). Epub 2024/01/23. doi: 10.3390/v16010140. PubMed PMID: 38257840.

Mani R, Martin CG, Balu KE, Wang Q, Rychahou P, Izumi T, Evers BM, Suzuki Y. **A Novel Protozoa Parasite-Derived Protein Adjuvant Is Effective in Immunization with Cancer Cells to Activate the Cancer-Specific Protective Immunity and Inhibit the Cancer Growth in a Murine Model of Colorectal Cancer.** Cells. 2024;13(2). Epub 2024/01/22. doi: 10.3390/cells13020111. PubMed PMID: 38247803.

Lamichhane B, Mawad AMM, Saleh M, Kelley WG, Harrington PJ, Lovestad CW, Amezcua J, Sarhan MM, El Zowalaty ME, Ramadan H, Morgan M, Helmy YA. **Salmonellosis: An Overview of Epidemiology, Pathogenesis, and Innovative Approaches to Mitigate the Antimicrobial Resistant Infections.** Antibiotics (Basel). 2024;13(1). Epub 2024/01/22. doi: 10.3390/antibiotics13010076. PubMed PMID: 38247636.

Zhu M, Frank MW, Radka CD, Jeanfavre S, Tse MW, Pacheco JA, Pierce K, Deik A, Xu J, Hussain S, Hussain FA, Xulu N, Khan N, Pillay V, Dong KL, Ndung'u T, Clish CB, Rock CO, Blainey PC, Bloom SM, Kwon DS. **Vaginal *Lactobacillus* fatty acid response mechanisms reveal a novel strategy for bacterial vaginosis treatment.** bioRxiv. 2023. Epub 2024/01/18. doi: 10.1101/2023.12.30.573720. PubMed PMID: 38234804; PMCID: PMC10793477.

Fu K, Schardl CL, Cook D, Cao X, Ling N, He C, Wu D, Xue L, Li Y, Shi Z. **Multiomics Reveals Mechanisms of *Alternaria oxytropis* Inhibiting Pathogenic Fungi in *Oxytropis ochrocephala*.** J Agric Food Chem. 2024. Epub 2024/01/17. doi: 10.1021/acs.jafc.3c09049. PubMed PMID: 38230662.

Simkin J, Aloysius A, Adam M, Safaee F, Donahue RR, Biswas S, Lakhani Z, Gensel JC, Thybert D, Potter S, Seifert AW. **Tissue-resident macrophages specifically express Lactotransferrin and Vegfc during ear pinna regeneration in spiny mice.** Dev Cell. 2024. Epub 2024/01/17. doi: 10.1016/j.devcel.2023.12.017. PubMed PMID: 38228141.

Radka CD, Grace CR, Hasdemir HS, Li Y, Rodriguez CC, Rodrigues P, Oldham ML, Qayyum MZ, Pitre A, MacCain WJ, Kalathur RC, Tajkhorshid E, Rock CO. **The carboxy terminus causes interfacial assembly of oleate hydratase on a membrane bilayer.** J Biol Chem. 2024. Epub 2024/01/12. doi: 10.1016/j.jbc.2024.105627. PubMed PMID: 38211817.

Kissell LN, Liu H, Sheokand M, Vang D, Kachroo P, Strobbia P. **Direct Detection of Tobacco Mosaic Virus in Infected Plants with SERS-Sensing Hydrogels.** ACS Sens. 2024. Epub 2024/01/10. doi: 10.1021/acssensors.3c02537. PubMed PMID: 38195409.

Dahal A, Subramanian V, Shrestha P, Liu D, Gauthier T, Jois S. **Conformationally constrained cyclic grafted peptidomimetics targeting protein-protein interactions.** Pept Sci (Hoboken). 2023;115(5). Epub 2024/01/08. doi: 10.1002/pep2.24328. PubMed PMID: 38188985; PMCID: PMC10769001.

Rhoades NS, Cinco IR, Hendrickson SM, Prongay K, Haertel AJ, Flores GE, Slifka MK, Messaoudi I. **Infant diarrheal disease in rhesus macaques impedes microbiome maturation and is linked to uncultured Campylobacter species.** Commun Biol. 2024;7(1). Epub 2024/01/06. doi: 10.1038/s42003-023-05695-0. PubMed PMID: 38182754; PMCID: PMC10770169.

Parker JL, Page A, Jacob O, Stanton V, Davis B, Flythe M, Adam EN. **Equine fecal microbiota response to short term antibiotic administration.** J Equine Vet Sci. 2024;133. Epub 2024/01/04. doi: 10.1016/j.jevs.2023.104993. PubMed PMID: 38171452.

Fulurija A, Cunningham MW, Korotkova N, Masterson MY, Bansal GP, Baker MG, Cannon JW, Carapetis JR, Steer AC. **Research opportunities for the primordial prevention of rheumatic fever and rheumatic heart disease-streptococcal vaccine development: a national heart, lung and blood institute workshop report.** BMJ Glob Health. 2023;8(Suppl 9). Epub 2024/01/02. doi: 10.1136/bmjgh-2023-013534. PubMed PMID: 38164699; PMCID: PMC10729269.

Mayer KP, Silva S, Beaty A, Davenport A, Minniti M, Dorn SU, White LS, Sabol VK, Pastva AM. **Relationship of Age And Mobility Levels During Physical Rehabilitation With Clinical Outcomes in Critical Illness.** Arch Rehabil Res Clin Transl. 2023;5(4). Epub 2024/01/02. doi: 10.1016/j.arrct.2023.100305. PubMed PMID: 38163032; PMCID: PMC10757188.

Sullivan LM, Weist EM, Barrington WE, Fairchild AL, Hwang W, Kiviniemi MT, Mohammed SD, Wyant VA, Alexander LA, Magaña L. **Education for public health 2030: transformation to meet health needs in a changing world.** Front Public Health. 2023;11. Epub 2024/01/02. doi: 10.3389/fpubh.2023.1269272. PubMed PMID: 38162596; PMCID: PMC10757328.

Macon EL, Harris P, McClendon M, Perron B, Adams A. **Insulin dysregulated horses metabolic responses to forage pellets.** J Equine Vet Sci. 2023;133. Epub 2024/01/02. doi: 10.1016/j.jevs.2023.104991. PubMed PMID: 38159582.

Rock P, Slavova S, Westgate PM, Nakamura A, Walsh SL. **Examination of naloxone dosing patterns for opioid overdose by emergency medical services in Kentucky during increased fentanyl use from 2018 to 2021.** Drug Alcohol Depend. 2023;255. Epub 2024/01/02. doi: 10.1016/j.drugalcdep.2023.111062. PubMed PMID: 38157702.

Tyler Pitcock C, Schadler A, Burgess DS, Burgess DR, Cotner SE, Van Hoose J, Gregory ER, Wallace KL. **Association of vancomycin-induced acute kidney injury with trough versus AUC monitoring in patients receiving extended durations of therapy.** Antimicrob Steward Healthc Epidemiol. 2023;3(1). Epub 2023/12/29. doi: 10.1017/ash.2023.490. PubMed PMID: 38156206; PMCID: PMC10753493.

Latham CM, Balawender PJ, Thomas NT, Keeble AR, Brightwell CR, Ismaeel A, Wen Y, Fry JL, Sullivan PG, Johnson DL, Noehren B, Owen AM, Fry CS. **Overexpression of manganese superoxide dismutase mitigates ACL injury-induced muscle atrophy, weakness and oxidative damage.** Free Radic Biol Med. 2024;212. Epub 2023/12/29. doi: 10.1016/j.freeradbiomed.2023.12.037. PubMed PMID: 38154571.

Wimmer MR, Griffin M, Peterson-Weber A, Schulz LT, Hamel AG, Schwei RJ, Fong K, Burgess DR, Brett M, Hale CM, Holubar M, Jain R, Larry R, Spivak ES, Newland H, Njoku J, Postelnick M, Walraven C, Pulia MS. **Diagnostic testing and antibiotic utilization among inpatients evaluated for coronavirus disease 2019 (COVID-19) pneumonia.** Infect Control Hosp Epidemiol. 2023. Epub 2023/12/28. doi: 10.1017/ice.2023.272. PubMed PMID: 38151334.

McGladrey M, Kelsch J, Lofwall MR, Fanucchi LC, Walsh SL, Oser CB. **Get It in Writing: How to Make Medications for Opioid Use Disorder Available During Incarceration.** J Correct Health Care. 2023. Epub 2023/12/27. doi: 10.1089/jchc.23.08.0065. PubMed PMID: 38150232.

Kreutzfeldt N, Chambers TM, Reedy S, Spann KM, Pusterla N. **Effect of dexamethasone on antibody response of horses to vaccination with a combined equine influenza virus and equine herpesvirus-1 vaccine.** J Vet Intern Med. 2024;38(1). Epub 2023/12/23. doi: 10.1111/jvim.16978. PubMed PMID: 38141173; PMCID: PMC10800231.

Chen J, Sheng CW, Peng Y, Wang K, Jiao Y, Palli SR, Cao H. **Transcript Level and Sequence Matching Are Key Determinants of Off-Target Effects in RNAi.** J Agric Food Chem. 2024;72(1). Epub 2023/12/23. doi: 10.1021/acs.jafc.3c07434. PubMed PMID: 38135672.

Biedler JK, Aryan A, Qi Y, Wang A, Martinson EO, Hartman DA, Yang F, Sharma A, Morton KS, Potters M, Chen C, Dobson SL, Ebel GD, Kading RC, Paulson S, Xue RD, Strand MR, Tu Z. **On the Origin and Evolution of the Mosquito Male-determining Factor Nix.** Mol Biol Evol. 2024;41(1). Epub 2023/12/21. doi: 10.1093/molbev/msad276. PubMed PMID: 38128148; PMCID: PMC10798136.

Peddireddy SR, Livingston MD, Young AM, Freeman PR, Ibragimov U, Komro KA, Lofwall MR, Oser CB, Staton M, Cooper HLF. **Willingness to utilize a mobile treatment unit in five counties at the epicenter of the US rural opioid epidemic.** J Subst Use Addict Treat. 2023;159. Epub 2023/12/17. doi: 10.1016/j.josat.2023.209262. PubMed PMID: 38103835.

Gonzalez OA, Kirakodu SS, Ebersole JL. **DAMPs and alarmin gene expression patterns in aging healthy and diseased mucosal tissues.** Front Oral Health. 2023;4. Epub 2023/12/15. doi: 10.3389/froh.2023.1320083. PubMed PMID: 38098978; PMCID: PMC10720672.

Hassan A, Ponomareva LV, Thorson JS, Shaaban KA, Sajid I. **Bioactivity and Metabolomics Profiling of Endophytic Actinobacteria Isolated from Roots of the Medicinal Plants Dominant in South Asian Region.** Adv Life Sci. 2023;10(2). Epub 2023/12/14. PubMed PMID: 38094851; PMCID: PMC10716798.

Winford E, Lutshumba J, Martin BJ, Wilcock DM, Jicha GA, Nikolajczyk BS, Stowe AM, Bachstetter AD. **Terminally differentiated effector memory T cells associate with cognitive and AD-related biomarkers in an aging-based community cohort.** bioRxiv. 2023. Epub 2023/12/11. doi: 10.1101/2023.11.27.568812. PubMed PMID: 38077088; PMCID: PMC10705256.

Devilée LAC, Miller JM, Reid JD, Salama ABM, Ou Q, Jamal M, Nong Y, Andres D, Satin J, Mohamed TMA, Hudson JE, Abouleisa RRE. **Pharmacological or genetic inhibition of LTCC promotes cardiomyocyte proliferation through inhibition of calcineurin activity.** Res Sq. 2023. Epub 2023/12/11. doi: 10.21203/rs.3.rs-3552794/v1. PubMed PMID: 38076903; PMCID: PMC10705701.

Mohtasebi M, Singh D, Liu X, Fathi F, Haratbar SR, Saatman KE, Chen L, Yu G. **Depth-sensitive diffuse speckle contrast topography for high-density mapping of cerebral blood flow in rodents.** Neurophotonics. 2023;10(4). Epub 2023/12/11. doi: 10.1117/1.NPh.10.4.045007. PubMed PMID: 38076725; PMCID: PMC10704187.

Soboll-Hussey G, Dorman DC, Burgess BA, Goehring L, Gross P, Neinast C, Osterrieder K, Pusterla N, Lunn DP. **Relationship between equine herpesvirus-1 viremia and abortion or equine herpesvirus myeloencephalopathy in domesticated horses: A systematic review.** J Vet Intern Med. 2023. Epub 2023/12/09. doi: 10.1111/jvim.16948. PubMed PMID: 38069576.

Pusterla N, Dorman DC, Burgess BA, Goehring L, Gross M, Osterrieder K, Soboll Hussey G, Lunn DP. **Viremia and nasal shedding for the diagnosis of equine herpesvirus-1 infection in domesticated horses.** J Vet Intern Med. 2023. Epub 2023/12/09. doi: 10.1111/jvim.16958. PubMed PMID: 38069548.

El-Dalati S, Thornton A, Reda H, Alnabelsi T, Gurley J, Stoner BJ, Gill D, Kennedy K, Dornbos DL, Fraser J, Cremeans K, Mansoor AE, Laugherty G, Norris K, Tremblay A, Annichiarico N, Van Sickels N, Ogburn E, London-Bounds T, Sekela M. **Beyond a team: The comprehensive interdisciplinary endocarditis program in the United States.** Int J Cardiol. 2024;397. Epub 2023/12/08. doi: 10.1016/j.ijcard.2023.131638. PubMed PMID: 38061608.

Adegboyega A, Francis DB, Ebikwo C, Ntego T, Ickes M. **Engagement With a Youth Community Advisory Board to Develop and Refine a Facebook HPV Vaccination Promotion Intervention (#HPVvaxtalks) for Young Black Adults (18-26 years old).** Health Promot Pract. 2023. Epub 2023/12/05. doi: 10.1177/15248399231216731. PubMed PMID: 38050905.

Mohtasebi M, Irwin D, Singh D, Mazdeyasna S, Liu X, Haratbar SR, Fathi F, Huang C, Saatman KE, Chen L, Yu G. **Detection of low-frequency oscillations in neonatal piglets with speckle contrast diffuse correlation tomography.** J Biomed Opt. 2023;28(12):121204. Epub 2023/12/01. doi: 10.1117/1.JBO.28.12.121204. PubMed PMID: 40060305; PMCID: PMC11889336.

Smalls BL, Adegboyega A, Combs E, Travis EW, De La Barra F, Williams LB, Schoenberg N. **Evaluating the Association Between Depressive Symptoms and Glycemic Control Among Residents of Rural Appalachia.** J Appalach Health. 2023;4(3). Epub 2023/11/29. doi: 10.13023/jah.0403.03. PubMed PMID: 38026049; PMCID: PMC10655730.

Stephenson KE, Marcelin JR, Pettifor AE, Janes H, Brown E, Neradilek M, Yen C, Andriesen J, Grunenberg N, Espy N, Trahey M, Fischer RSB, DeSouza CA, Shisler JL, Connick E, Houpt ER, Chu HY, McCulloh RJ, Becker-Dreps S, Vielot NA, Kalbaugh CA, Cherabuddi K, Krueger KM, Rosenberg M, Greenberg RN, Joaquin A, Immergluck LC, Corey L, Kublin JG. **Efficacy of Messenger RNA-1273 Against Severe Acute Respiratory Syndrome Coronavirus 2 Acquisition in Young Adults From March to December 2021.** Open Forum Infect Dis. 2023;10(11). Epub 2023/11/29. doi: 10.1093/ofid/ofad511. PubMed PMID: 38023544; PMCID: PMC10655942.

Person AK, Harris SJ, Burdge J, Blue AV, Leedy NE, Villacorta E, Justo JA, Black E, Janelle J, Ahuja D, Chastain CA. **Interprofessional Education: An Innovative Approach to Increase the Human Immunodeficiency Virus Workforce.** Open Forum Infect Dis. 2023;10(11). Epub 2023/11/29. doi: 10.1093/ofid/ofad560. PubMed PMID: 38023543; PMCID: PMC10665034.

Brightwell CR, Latham CM, Keeble AR, Thomas NT, Owen AM, Reeves KA, Long DE, Patrick M, Gonzalez-Velez S, Abed V, Annamalai RT, Jacobs C, Conley CE, Hawk GS, Stone AV, Fry JL, Thompson KL, Johnson DL, Noehren B, Fry CS. **GDF8 inhibition enhances musculoskeletal recovery and mitigates posttraumatic osteoarthritis following joint injury.** Sci Adv. 2023;9(48). Epub 2023/11/29. doi: 10.1126/sciadv.adi9134. PubMed PMID: 38019905; PMCID: PMC10686569.

Shoemaker R, Poglitsch M, Davis D, Huang H, Schadler A, Patel N, Vignes K, Srinivasan A, Cockerham C, Bauer JA, O'Brien JM. **Association of Elevated Serum Aldosterone Concentrations in Pregnancy with Hypertension.** Biomedicines. 2023;11(11). Epub 2023/11/25. doi: 10.3390/biomedicines11112954. PubMed PMID: 38001956; PMCID: PMC10669350.

Dehghan Banadaki M, Torabi S, Rockward A, Strike WD, Noble A, Keck JW, Berry SM. **Simple SARS-CoV-2 concentration methods for wastewater surveillance in low resource settings.** Sci Total Environ. 2024;912. Epub 2023/11/25. doi: 10.1016/j.scitotenv.2023.168782. PubMed PMID: 38000737.

Bhandari M, Poelstra JW, Kauffman M, Varghese B, Helmy YA, Scaria J, Rajashekara G. **Genomic Diversity, Antimicrobial Resistance, Plasmidome, and Virulence Profiles of *Salmonella* Isolated from Small Specialty Crop Farms Revealed by Whole-Genome Sequencing.** Antibiotics (Basel). 2023;12(11). Epub 2023/11/24. doi: 10.3390/antibiotics12111637. PubMed PMID: 37998839; PMCID: PMC10668983.

Li C, Allison DB, He D, Mao F, Wang X, Rychahou P, Imam IA, Kong Y, Zhang Q, Zhang Y, Liu J, Wang R, Rao X, Wu S, Evers BM, Shao Q, Wang C, Li Z, Liu X. **Phosphorylation of AHR by PLK1 promotes metastasis of LUAD via DIO2-TH signaling.** PLoS Genet. 2023;19(11). Epub 2023/11/21. doi: 10.1371/journal.pgen.1011017. PubMed PMID: 37988371; PMCID: PMC10662729.

El-Dalati S, Henson D. **Decoding the 2023 Duke-ISCVD Criteria.** Clin Infect Dis. 2023. Epub 2023/11/17. doi: 10.1093/cid/ciad682. PubMed PMID: 37975830.

Tubero Euzebio Alves V, Bruno MEC, Mukherjee S, Wang L, Danaher RJ, Su L, Starr ME, Gonzalez OA. **Sex-Related Effect of Aging in Gingival Gamma-Delta T Cells.** J Dent Res. 2024;103(1). Epub 2023/11/16. doi: 10.1177/00220345231205210. PubMed PMID: 37968805.

El Zowalaty ME, Lamichhane B, Falgenhauer L, Mowlaboccus S, Zishiri OT, Forsythe S, Helmy YA. **Author Correction: Antimicrobial resistance and whole genome sequencing of novel sequence types of Enterococcus faecalis, Enterococcus faecium, and Enterococcus durans isolated from livestock.** Sci Rep. 2023;13(1). Epub 2023/11/15. doi: 10.1038/s41598-023-46976-2. PubMed PMID: 37963920; PMCID: PMC10645726.

Orom H, Stanar S, Allard NC, Hay JL, Waters EA, Kiviniemi MT, Lewicka M. **Reasons people avoid colorectal cancer information: a mixed-methods study.** Psychol Health. 2023. Epub 2023/11/11. doi: 10.1080/08870446.2023.2280177. PubMed PMID: 37950399.

Parida P, Lewis S, Sharan K, Kamal MV, Kumar NAN, Godkhindi VM, Varambally S, Rangnekar VM, Rao M, Damerla RR. **Increased Gene Expression of *C1orf74* Is Associated with Poor Prognosis in Cervical Cancer.** Cells. 2023;12(21). Epub 2023/11/10. doi: 10.3390/cells12212530. PubMed PMID: 37947608; PMCID: PMC10649411.

Kesich Z, Ibragimov U, Komro K, Lane K, Livingston M, Young A, Cooper HLF. **"I'm not going to lay back and watch somebody die": a qualitative study of how people who use drugs' naloxone experiences are shaped by rural risk environment and overdose education/naloxone distribution intervention.** Harm Reduct J. 2023;20(1). Epub 2023/11/10. doi: 10.1186/s12954-023-00900-z. PubMed PMID: 37946233; PMCID: PMC10636969.

Rahnama M, Condon B, Ascari JP, Dupuis JR, Del Ponte EM, Pedley KF, Martinez S, Valent B, Farman ML. **Recent co-evolution of two pandemic plant diseases in a multi-hybrid swarm.** Nat Ecol Evol. 2023;7(12). Epub 2023/11/10. doi: 10.1038/s41559-023-02237-z. PubMed PMID: 37945944; PMCID: PMC10697843.

Wang XZ, Chen JS, Wang W, Niu DB, Wu HZ, Palli SR, Cao HQ, Sheng CW. **Knockdown of the glutamate-gated chloride channel gene decreases emamectin benzoate susceptibility in the fall armyworm, Spodoptera frugiperda.** Pestic Biochem Physiol. 2023;196. Epub 2023/11/10. doi: 10.1016/j.pestbp.2023.105636. PubMed PMID: 37945267.

Hoover DB, Korthuis PT, Waddell EN, Foot C, Conway C, Crane HM, Friedmann PD, Go VF, Nance RM, Pho MT, Satcher MF, Sibley A, Westergaard RP, Young AM, Cook R. **Recent Incarceration, Substance Use, Overdose, and Service Use Among People Who Use Drugs in Rural Communities.** JAMA Netw Open. 2023;6(11). Epub 2023/11/09. doi: 10.1001/jamanetworkopen.2023.42222. PubMed PMID: 37943559; PMCID: PMC10636631.

Woods CR, Bradley JS, Chatterjee A, Kronman MP, Arnold SR, Robinson J, Copley LA, Arrieta A, Fowler SL, Harrison C, Eppes SC, Creech CB, Stadler LP, Shah SS, Mazur LJ, Carrillo-Marquez MA, Allen CH, Lavergne V. **Clinical Practice Guideline by the Pediatric Infectious Diseases Society (PIDS) and the Infectious Diseases Society of America (IDSA): 2023 Guideline on Diagnosis and Management of Acute Bacterial Arthritis in Pediatrics.** J Pediatric Infect Dis Soc. 2023. Epub 2023/11/09. doi: 10.1093/jpids/piad089. PubMed PMID: 37941444.

Ismaeel A, Valentino TR, Burke B, Goh J, Saliu TP, Albathi F, Owen A, McCarthy JJ, Wen Y. **Acetate and succinate benefit host muscle energetics as exercise-associated post-biotics.** Physiol Rep. 2023;11(21). Epub 2023/11/09. doi: 10.14814/phy2.15848. PubMed PMID: 37940330; PMCID: PMC10632089.

Sim MMS, Shiferawe S, Wood JP. **Novel strategies in antithrombotic therapy: targeting thrombosis while preserving hemostasis.** Front Cardiovasc Med. 2023;10. Epub 2023/11/08. doi: 10.3389/fcvm.2023.1272971. PubMed PMID: 37937289; PMCID: PMC10626538.

Mayer KP, Kosmac K, Wen Y, Parry SM, Dhar S, Foster S, Starck J, Montgomery-Yates AA, Dupont-Versteegden EE, Kalema AG. **Construct and criterion validity of muscle ultrasonography for assessment of skeletal muscle in patients recovering from COVID-19.** Front Physiol. 2023;14. Epub 2023/11/08. doi: 10.3389/fphys.2023.1231538. PubMed PMID: 37936579; PMCID: PMC10625915.

Li H, McLaurin KA, Mactutus CF, Rappaport J, Datta PK, Booze RM. **SARS-CoV-2 RNA persists in the central nervous system of non-human primates despite clinical recovery.** Mol Biomed. 2023;4(1). Epub 2023/11/07. doi: 10.1186/s43556-023-00153-z. PubMed PMID: 37934362; PMCID: PMC10630293.

Matharu SS, Nordmann CS, Ottman KR, Akkem R, Palumbo D, Cruz DRD, Campbell K, Sievert G, Sturgill J, Porterfield JZ, Joshi S, Alfar HR, Peng C, Pokrovskaya ID, Kamykowski JA, Wood JP, Garvy B, Aronova MA, Whiteheart SW, Leapman RD, Storrie B. **Deep learning, 3D ultrastructural analysis reveals quantitative differences in platelet and organelle packing in COVID-19/SARSCoV2 patient-derived platelets.** Platelets. 2023;34(1). Epub 2023/11/07. doi: 10.1080/09537104.2023.2264978. PubMed PMID: 37933490.

Osterrieder K, Dorman DC, Burgess BA, Goehring LS, Gross P, Neinast C, Pusterla N, Hussey GS, Lunn DP. **Vaccination for the prevention of equine herpesvirus-1 disease in domesticated horses: A systematic review and meta-analysis.** J Vet Intern Med. 2023. Epub 2023/11/06. doi: 10.1111/jvim.16895. PubMed PMID: 37930113.

Miller ET, Tsodikov OV, Garneau-Tsodikova S. **Structural insights into the diverse prenylating capabilities of DMATS prenyltransferases.** Nat Prod Rep. 2023. Epub 2023/11/06. doi: 10.1039/d3np00036b. PubMed PMID: 37929638.

Miller CS, Thornhill MH. **Re: Estimating the cost of inappropriate antibiotic prophylaxis prior to dental procedures.** Infect Control Hosp Epidemiol. 2023. Epub 2023/11/03. doi: 10.1017/ice.2023.209. PubMed PMID: 37920114.

Hansen AC, Piranavan P, Kundu A, A El-Dalati S, Ahmed T. **Embolic myocardial infarction with cardiac arrest as an initial manifestation of non-bacterial thrombotic endocarditis.** BMJ Case Rep. 2023;16(11). Epub 2023/11/02. doi: 10.1136/bcr-2023-257466. PubMed PMID: 37914173; PMCID: PMC10626879.

El Zowalaty ME, Lamichhane B, Falgenhauer L, Mowlaboccus S, Zishiri OT, Forsythe S, Helmy YA. **Antimicrobial resistance and whole genome sequencing of novel sequence types of Enterococcus faecalis, Enterococcus faecium, and Enterococcus durans isolated from livestock.** Sci Rep. 2023;13(1). Epub 2023/10/31. doi: 10.1038/s41598-023-42838-z. PubMed PMID: 37903806; PMCID: PMC10616195.

Bachstetter AD, Lutshumba J, Winford E, Abner EL, Martin BJ, Harp JP, Van Eldik LJ, Schmitt FA, Wilcock DM, Stowe AM, Jicha GA, Nikolajczyk BS. **A blunted TH17 cytokine signature in women with mild cognitive impairment: insights from inflammatory profiling of a community-based cohort of older adults.** Brain Commun. 2023;5(5). Epub 2023/10/30. doi: 10.1093/braincomms/fcad259. PubMed PMID: 37901041; PMCID: PMC10612408.

Davis A, Stringer KL, Drainoni ML, Oser CB, Knudsen HK, Aldrich A, Surratt HL, Walker DM, Gilbert L, Downey DL, Gardner SD, Tan S, Lines LM, Vandergrift N, Mack N, Holloway J, Lunze K, McAlearney AS, Huerta TR, Goddard-Eckrich DA, El-Bassel N. **Community-level determinants of stakeholder perceptions of community stigma toward people with opioid use disorders, harm reduction services and treatment in the HEALing Communities Study.** Int J Drug Policy. 2023;122. Epub 2023/10/28. doi: 10.1016/j.drugpo.2023.104241. PubMed PMID: 37890391.

Ballard AM, Falk D, Greenwood H, Gugerty P, Feinberg J, Friedmann PD, Go VF, Jenkins WD, Korthuis PT, Miller WC, Pho MT, Seal DW, Smith GS, Stopka TJ, Westergaard RP, Zule WA, Young AM, Cooper HLF. **Houselessness and syringe service program utilization among people who inject drugs in eight rural areas across the USA: a cross-sectional analysis.** Harm Reduct J. 2023;20(1). Epub 2023/10/26. doi: 10.1186/s12954-023-00892-w. PubMed PMID: 37880724; PMCID: PMC10601138.

South AM, Fanucchi L, Lofwall M. **Advocacy for patients with opioid use disorder: A primer for physicians and other clinicians on the Americans with Disabilities Act.** J Opioid Manag. 2023;19(7). Epub 2023/10/26. doi: 10.5055/jom.2023.0799. PubMed PMID: 37879660.

Mani R, Abdelaziz MH, Ochiai E, Sa Q, Fox BA, Bzik DJ, Suzuki Y. **Dense granule protein 3 of *Toxoplasma gondii* plays a crucial role in the capability of the tissue cysts of the parasite to persist in the presence of anti-cyst CD8+ T cells during the chronic stage of infection.** Front Immunol. 2023;14. Epub 2023/10/23. doi: 10.3389/fimmu.2023.1272221. PubMed PMID: 37868957; PMCID: PMC10585165.

Pang AH, Green KD, Tsodikov OV, Garneau-Tsodikova S. **Discovery and development of inhibitors of acetyltransferase Eis to combat Mycobacterium tuberculosis.** Methods Enzymol. 2023;690. Epub 2023/10/20. doi: 10.1016/bs.mie.2023.06.017. PubMed PMID: 37858535.

Saville CWN, Mann R, Lockard AS, Bark-Connell A, Gabuljah SG, Young AM, Thomas DR. **Covid and the coalfield: Covid-19 vaccine hesitance in Wales and Appalachia.** Soc Sci Med. 2023;337. Epub 2023/10/20. doi: 10.1016/j.socscimed.2023.116295. PubMed PMID: 37857241.

Damgacioglu H, Burus T, Sonawane K, Hill E, Lang Kuhs KA, Deshmukh AA. **County-Level Trends in Cervical Cancer Incidence, Stage at Diagnosis, and Mortality in Kentucky.** JAMA Netw Open. 2023;6(10). Epub 2023/10/19. doi: 10.1001/jamanetworkopen.2023.38333. PubMed PMID: 37856127; PMCID: PMC10587791.

Cox WC, Harrell TK, Brock TP, Romanelli F, Buring SM. **The Complicated Middle of the Academic Deanery.** Am J Pharm Educ. 2023;87(10). Epub 2023/10/19. doi: 10.1016/j.ajpe.2023.100133. PubMed PMID: 37852691.

Hammerslag LR, Mack A, Chandler RK, Fanucchi LC, Feaster DJ, LaRochelle MR, Lofwall MR, Nau M, Villani J, Walsh SL, Westgate PM, Slavova S, Talbert JC. **Telemedicine Buprenorphine Initiation and Retention in Opioid Use Disorder Treatment for Medicaid Enrollees.** JAMA Netw Open. 2023;6(10). Epub 2023/10/18. doi: 10.1001/jamanetworkopen.2023.36914. PubMed PMID: 37851446; PMCID: PMC10585416.

Duprex WP, Dutch RE. **Paramyxoviruses: Pathogenesis, Vaccines, Antivirals, and Prototypes for Pandemic Preparedness.** J Infect Dis. 2023;228(Suppl 6). Epub 2023/10/18. doi: 10.1093/infdis/jiad123. PubMed PMID: 37849400.

Creasy KT, Ren H, Jiang J, Peterson ML, Spear BT. **Elongation of very long chain fatty acids-3 (*Elovl3*) is activated by ZHX2 and is a regulator of cell cycle progression.** Am J Physiol Gastrointest Liver Physiol. 2023;325(6). Epub 2023/10/17. doi: 10.1152/ajpgi.00235.2022. PubMed PMID: 37847682.

Sun J, Ince MN, Abraham C, Barrett T, Brenner LA, Cong Y, Dashti R, Dudeja PK, Elliott D, Griffith TS, Heeger PS, Hoisington A, Irani K, Kim TK, Kapur N, Leventhal J, Mohamadzadeh M, Mutlu E, Newberry R, Peled JU, Rubinstein I, Sengsayadeth S, Tan CS, Tan XD, Tkaczyk E, Wertheim J, Zhang ZJ. **Modulating microbiome-immune axis in the deployment-related chronic diseases of Veterans: report of an expert meeting.** Gut Microbes. 2023;15(2). Epub 2023/10/16. doi: 10.1080/19490976.2023.2267180. PubMed PMID: 37842912; PMCID: PMC10580853.

Zukowski E, Sannella M, Rockhold JD, Kalantar GH, Yu J, SantaCruz-Calvo S, Kuhn MK, Hah N, Ouyang L, Wang TW, Murphy L, Marszalkowski H, Gibney K, Drummond MJ, Proctor EA, Hasturk H, Nikolajczyk BS, Bharath LP. **STAT3 modulates CD4+ T mitochondrial dynamics and function in aging.** Aging Cell. 2023;22(11). Epub 2023/10/14. doi: 10.1111/acel.13996. PubMed PMID: 37837188; PMCID: PMC10652300.

Lang Kuhs KA, Brenner JC, Holsinger FC, Rettig EM. **Circulating Tumor HPV DNA for Surveillance of HPV-Positive Oropharyngeal Squamous Cell Carcinoma: A Narrative Review.** JAMA Oncol. 2023;9(12). Epub 2023/10/12. doi: 10.1001/jamaoncol.2023.4042. PubMed PMID: 37824111.

Pravosud V, Ballard AM, Holloway IW, Young AM. **Latent Class Analysis of Online Platforms for Partner-Seeking and Sexual Behaviors Among Men Who Have Sex with Men from Central Kentucky.** AIDS Behav. 2023. Epub 2023/10/12. doi: 10.1007/s10461-023-04210-0. PubMed PMID: 37824036.

El-Metwally MM, Abdel-Fattah GM, Al-Otibi FO, Khatieb DKHE, Helmy YA, Mohammed YMM, Saber WIA. **Application of artificial neural networks for enhancing *Aspergillus flavipes* lipase synthesis for green biodiesel production.** Heliyon. 2023;9(9). Epub 2023/10/09. doi: 10.1016/j.heliyon.2023.e20063. PubMed PMID: 37809880; PMCID: PMC10559816.

Murphy RD, Troublefield CA, Miracle JS, Young LEA, Brizzee CO, Dhara A, Sun RC, Vander Kooi CW, Gentry MS, Sinai AP. **TgLaforin, a glucan phosphatase, reveals the dynamic role of storage polysaccharides in *Toxoplasma gondii* tachyzoites and bradyzoites.** bioRxiv. 2023. Epub 2023/10/09. doi: 10.1101/2023.09.29.560185. PubMed PMID: 37808860; PMCID: PMC10557770.

Estadt AT, Miller WC, Kline D, Whitney BM, Young AM, Todd Korthuis P, Stopka TJ, Feinberg J, Zule WA, Pho MT, Friedmann PD, Westergaard RP, Eagen KV, Seaman A, Ma J, Go VF, Lancaster KE. **Associations of hepatitis C virus (HCV) antibody positivity with opioid, stimulant, and polysubstance injection among people who inject drugs (PWID) in rural U.S. communities.** Int J Drug Policy. 2023. Epub 2023/10/09. doi: 10.1016/j.drugpo.2023.104222. PubMed PMID: 37806839.

Adams AA, Siard-Altman MH, Reedy SE, Barker D, Elzinga S, Sanz MG, Urschel K, Ireland JL. **Evaluation of seasonal influences on adrenocorticotropic hormone response to the thyrotropin-releasing hormone stimulation test and its accuracy for diagnosis of pituitary pars intermedia dysfunction.** Vet J. 2023;300-302. Epub 2023/10/07. doi: 10.1016/j.tvjl.2023.106035. PubMed PMID: 37802466.

Lewis SA, Cinco IR, Doratt BM, Blanton MB, Hoagland C, Newman N, Davies M, Grant KA, Messaoudi I. **Chronic alcohol consumption dysregulates innate immune response to SARS-CoV-2 in the lung.** EBioMedicine. 2023;97. Epub 2023/10/04. doi: 10.1016/j.ebiom.2023.104812. PubMed PMID: 37793211; PMCID: PMC10562860.

Burus T, Damgacioglu H, Huang B, Christian WJ, Hull PC, Ellis AR, Arnold SM, Deshmukh AA, Kuhs KAL. **Recent and Projected Trends in Oral Tongue Cancer in the United States: A Demographic Shift in Case Burden as Early Onset Increases Among Females Subside.** Res Sq. 2023. Epub 2023/10/04. doi: 10.21203/rs.3.rs-3359293/v1. PubMed PMID: 37790433; PMCID: PMC10543327.

South AM, Lofwall M, Fanucchi L. **Opioid Use Disorder Treatment for Patients Who Are Incarcerated-Reply.** JAMA. 2023;330(13). Epub 2023/10/03. doi: 10.1001/jama.2023.14185. PubMed PMID: 37787799.

Belisário R, Torres MF, Buiate EAS, Xavier KV, Nuckles EM, Vaillancourt LJ. **Detached Maize Sheaths for Live-Cell Imaging of Infection by Fungal Foliar Maize Pathogens.** J Vis Exp. 2023;(199). Epub 2023/10/02. doi: 10.3791/65755. PubMed PMID: 37782097.

Wu L, Wang F, Moncman CL, Pandey M, Clarke HA, Frazier HN, Young LEA, Gentry MS, Cai W, Thibault O, Sun RC, Andres DA. **RIT1 regulation of CNS lipids RIT1 deficiency Alters cerebral lipid metabolism and reduces white matter tract oligodendrocytes and conduction velocities.** Heliyon. 2023;9(10). Epub 2023/10/02. doi: 10.1016/j.heliyon.2023.e20384. PubMed PMID: 37780758; PMCID: PMC10539968.

Shapero K, El-Dalati S, Berlacher K, Megli C. **Outcomes of Endocarditis in Pregnancy: A Single-Center Experience.** Open Forum Infect Dis. 2023;10(9). Epub 2023/10/02. doi: 10.1093/ofid/ofad470. PubMed PMID: 37779596; PMCID: PMC10538254.

Kutkut A, Almehmadi N, Mattos M, Sharab L, Al-Sabbagh M. **Dental Implant Treatment in Bruxers: A Case Report and Literature Review.** J Oral Implantol. 2023. Epub 2023/10/01. doi: 10.1563/aaid-joi-D-22-00245. PubMed PMID: 37776245.

Hetrick AT, Young AM, Elman MR, Bielavitz S, Alexander RL, Brown M, Waddell EN, Korthuis PT, Lancaster KE. **Correction: A cross-sectional survey of potential factors, motivations, and barriers influencing research participation and retention among people who use drugs in the rural USA.** Trials. 2023;24(1). Epub 2023/09/29. doi: 10.1186/s13063-023-07531-6. PubMed PMID: 37770936; PMCID: PMC10540352.

Wilson JE, Sanderson W, Westgate PM, Winter K, Forster D. **Risk factors of carbapenemase-producing Enterobacterales acquisition among adult intensive care unit patients at a Kentucky Academic Medical Center.** Infect Prev Pract. 2023;5(4). Epub 2023/09/28. doi: 10.1016/j.infpip.2023.100310. PubMed PMID: 37767313; PMCID: PMC10520311.

Fakhry H, Ghoniem AA, Al-Otibi FO, Helmy YA, El Hersh MS, Elattar KM, Saber WIA, Elsayed A. **A Comparative Study of Cr(VI) Sorption by *Aureobasidium pullulans* AKW Biomass and Its Extracellular Melanin: Complementary Modeling with Equilibrium Isotherms, Kinetic Studies, and Decision Tree Modeling.** Polymers (Basel). 2023;15(18). Epub 2023/09/28. doi: 10.3390/polym15183754. PubMed PMID: 37765609; PMCID: PMC10537747.

Noh Y, Shannahan JH, Hoover AG, Pennell KG, Weir MH, Whelton AJ. **Bystander chemical exposures and injuries associated with nearby plastic sewer pipe manufacture: public health practice and lessons.** J Environ Health. 2022;85(4). Epub 2023/09/22. PubMed PMID: 37736399; PMCID: PMC10512871.

Kesich Z, Ibragimov U, Komro K, Lane K, Livingston M, Young A, Cooper H. **"I'm not going to lay back and watch somebody die": A qualitative study of how people who use drugs' naloxone experiences are shaped by rural risk environment and naloxone distribution/overdose education intervention.** Res Sq. 2023. Epub 2023/09/18. doi: 10.21203/rs.3.rs-3310319/v1. PubMed PMID: 37720025; PMCID: PMC10503866.

Palli SR. **Juvenile hormone receptor Methoprene tolerant: Functions and applications.** Vitam Horm. 2023;123. Epub 2023/09/18. doi: 10.1016/bs.vh.2023.03.002. PubMed PMID: 37718000.

Page AE, Johnson M, Parker JL, Jacob O, Swan M, Adam E. **The Effect of Inhaled Ciclesonide Treatment on Systemic Markers of Immune Function in Horses.** J Equine Vet Sci. 2023;130. Epub 2023/09/18. doi: 10.1016/j.jevs.2023.104925. PubMed PMID: 37717678.

Neubert EN, DeRogatis JM, Lewis SA, Viramontes KM, Ortega P, Henriquez ML, Buisson R, Messaoudi I, Tinoco R. **HMGB2 regulates the differentiation and stemness of exhausted CD8+ T cells during chronic viral infection and cancer.** Nat Commun. 2023;14(1). Epub 2023/09/14. doi: 10.1038/s41467-023-41352-0. PubMed PMID: 37704621; PMCID: PMC10499904.

Doratt BM, Sureshchandra S, True H, Rincon M, Marshall NE, Messaoudi I. **Mild/asymptomatic COVID-19 in unvaccinated pregnant mothers impairs neonatal immune responses.** JCI Insight. 2023;8(19). Epub 2023/09/12. doi: 10.1172/jci.insight.172658. PubMed PMID: 37698937; PMCID: PMC10629812.

Carrera JP, Galué J, de Souza WM, Torres-Cosme R, Lezcano-Coba C, Cumbrera A, Vasilakis N, Tesh RB, Guzman H, Weaver SC, Vittor AY, Samudio R, Miguel Pascale J, Valderrama A, Cáceres Carrera L, Donnelly CA, Faria NR. **Madariaga and Venezuelan equine encephalitis virus seroprevalence in rodent enzootic hosts in Eastern and Western Panama.** bioRxiv. 2023. Epub 2023/09/11. doi: 10.1101/2023.08.28.555226. PubMed PMID: 37693579; PMCID: PMC10491141.

Cui J, Li H, Zhang G, Zhang Y, Yang L, Sim MMS, Wood JP, Wei Y, Li Z, Wu C. **Inhibiting NINJ1-dependent plasma membrane rupture protects against inflammasome-induced blood coagulation and inflammation.** bioRxiv. 2023. Epub 2023/09/11. doi: 10.1101/2023.08.30.555561. PubMed PMID: 37693519; PMCID: PMC10491273.

Wasik BR, Rothschild E, Voorhees IEH, Reedy SE, Murcia PR, Pusterla N, Chambers TM, Goodman LB, Holmes EC, Kile JC, Parrish CR. **Understanding the divergent evolution and epidemiology of H3N8 influenza viruses in dogs and horses.** Virus Evol. 2023;9(2). Epub 2023/09/11. doi: 10.1093/ve/vead052. PubMed PMID: 37692894; PMCID: PMC10484056.

Sanfaçon H, Alam SB, Ghoshal B, Ghoshal K, Hui E, Jackson AO, Kakani K, Morris TJ, Nagy PD, Simon AE, Sit TL, Smith TJ, White KA, Xiang Y. **D'Ann Rochon (1955-2022), a life of passion for plant virology.** Virology. 2023;587. Epub 2023/09/11. doi: 10.1016/j.virol.2023.109874. PubMed PMID: 37690385.

Yu J, Sreenivasan C, Sheng Z, Zhai SL, Wollman JW, Luo S, Huang C, Gao R, Wang Z, Kaushik RS, Christopher-Hennings J, Nelson E, Hause BM, Li F, Wang D. **A recombinant chimeric influenza virus vaccine expressing the consensus H3 hemagglutinin elicits broad hemagglutination inhibition antibodies against divergent swine H3N2 influenza viruses.** Vaccine. 2023;41(42). Epub 2023/09/10. doi: 10.1016/j.vaccine.2023.09.007. PubMed PMID: 37689544.

Martin CL, Chester DW, Radka CD, Pan L, Yang Z, Hart RC, Binshtein EM, Wang Z, Nagy L, DeLucas LJ, Aller SG. **Structures of the Insecticidal Toxin Complex Subunit XptA2 Highlight Roles for Flexible Domains.** Int J Mol Sci. 2023;24(17). Epub 2023/09/09. doi: 10.3390/ijms241713221. PubMed PMID: 37686027; PMCID: PMC10487846.

El Najjar F, Castillo SR, Moncman CL, Wu C-Y, Isla E, Velez Ortega AC, Frolenkov GI, Cifuentes-Munoz N, Dutch RE. **Imaging analysis reveals budding of filamentous human metapneumovirus virions and direct transfer of inclusion bodies through intercellular extensions.** mBio. 2023;14(5). Epub 2023/09/08. doi: 10.1128/mbio.01589-23. PubMed PMID: 37681946; PMCID: PMC10653870.

Zhang Z, Dai W, Zhu W, Rodriguez M, Lund H, Xia Y, Chen Y, Rau M, Schneider EA, Graham MB, Jobe S, Wang D, Cui W, Wen R, Whiteheart SW, Wood JP, Silverstein R, Berger JS, Kreuziger LB, Barrett TJ, Zheng Z. **Plasma tissue-type plasminogen activator is associated with lipoprotein(a) and clinical outcomes in hospitalized patients with COVID-19.** Res Pract Thromb Haemost. 2023;7(6). Epub 2023/09/08. doi: 10.1016/j.rpth.2023.102164. PubMed PMID: 37680312; PMCID: PMC10480648.

Xia Y, Xiao Y, Wang ZH, Liu X, Alam AM, Haran JP, McCormick BA, Shu X, Wang X, Ye K. **Bacteroides Fragilis in the gut microbiomes of Alzheimer's disease activates microglia and triggers pathogenesis in neuronal C/EBPβ transgenic mice.** Nat Commun. 2023;14(1). Epub 2023/09/07. doi: 10.1038/s41467-023-41283-w. PubMed PMID: 37673907; PMCID: PMC10482867.

Rivolta AA, Bujold AR, Wilmarth PA, Phinney BS, Navelski JP, Horohov DW, Sanz MG. **Comparison of the broncoalveolar lavage fluid proteomics between foals and adult horses.** PLoS One. 2023;18(9). Epub 2023/09/05. doi: 10.1371/journal.pone.0290778. PubMed PMID: 37669266; PMCID: PMC10479908.

Li X, Song X, Mahmood DFD, Sim MMS, Bidarian SJ, Wood JP. **Activated protein C, protein S, and tissue factor pathway inhibitor cooperate to inhibit thrombin activation.** Thromb Res. 2023;230. Epub 2023/09/04. doi: 10.1016/j.thromres.2023.08.012. PubMed PMID: 37660436; PMCID: PMC10543463.

Freeman PR, McAninch J, Dasgupta N, Oyler DR, Slavov K, Collins C, Hargrove S, Freeman E, Miracle D, Slavova S. **Drugs involved in Kentucky drug poisoning deaths and relation with antecedent controlled substance prescription dispensing.** Subst Abuse Treat Prev Policy. 2023;18(1). Epub 2023/09/02. doi: 10.1186/s13011-023-00561-y. PubMed PMID: 37658455; PMCID: PMC10474700.

Lewis SA, Doratt BM, Qiao Q, Blanton M, Grant KA, Messaoudi I. **Integrated single cell analysis shows chronic alcohol drinking disrupts monocyte differentiation in the bone marrow.** Stem Cell Reports. 2023;18(9). Epub 2023/09/02. doi: 10.1016/j.stemcr.2023.08.001. PubMed PMID: 37657446; PMCID: PMC10545484.

Dines B, Kellihan H, Allen C, Loynachan A, Bochsler P, Newbury S. **Case report: Long-term survival in puppies assessed with echocardiography, electrocardiography and cardiac troponin I after acute death in littermates due to parvoviral myocarditis.** Front Vet Sci. 2023;10. Epub 2023/08/30. doi: 10.3389/fvets.2023.1229756. PubMed PMID: 37645673; PMCID: PMC10462392.

Keck JW, Lindner J, Liversedge M, Mijatovic B, Olsson C, Strike W, Noble A, Adatorwovor R, Lacy P, Smith T, Berry SM. **Wastewater Surveillance for SARS-CoV-2 at Long-Term Care Facilities: Mixed Methods Evaluation.** JMIR Public Health Surveill. 2023;9. Epub 2023/08/29. doi: 10.2196/44657. PubMed PMID: 37643001; PMCID: PMC10467632.

El-Amouri S, Karakashian A, Bieberich E, Nikolova-Karakashian M. **Regulated translocation of neutral sphingomyelinase-2 to the plasma membrane drives insulin resistance in steatotic hepatocytes.** J Lipid Res. 2023;64(10). Epub 2023/08/29. doi: 10.1016/j.jlr.2023.100435. PubMed PMID: 37640282; PMCID: PMC10550728.

Ebersole JL, Kirakodu SS, Nguyen LM, Gonzalez OA. **Periodontitis-resistant and -susceptible matriline regulation of gingival transcriptome in nonhuman primates.** J Periodontal Res. 2023;58(6). Epub 2023/08/28. doi: 10.1111/jre.13162. PubMed PMID: 37638662.

Phillips ED, Garcia EC. **Burkholderia pseudomallei.** Trends Microbiol. 2024;32(1). Epub 2023/08/28. doi: 10.1016/j.tim.2023.07.008. PubMed PMID: 37634974; PMCID: PMC10803057.

Graham UM, Dozier AK, Feola DJ, Tseng MT, Yokel RA. **Macrophage Polarization Status Impacts Nanoceria Cellular Distribution but Not Its Biotransformation or Ferritin Effects.** Nanomaterials (Basel). 2023;13(16). Epub 2023/08/26. doi: 10.3390/nano13162298. PubMed PMID: 37630884; PMCID: PMC10459093.

Shoemaker R, Poglitsch M, Huang H, Vignes K, Srinivasan A, Cockerham C, Schadler A, Bauer JA, O'Brien JM. **Activation of the Renin-Angiotensin-Aldosterone System Is Attenuated in Hypertensive Compared with Normotensive Pregnancy.** Int J Mol Sci. 2023;24(16). Epub 2023/08/26. doi: 10.3390/ijms241612728. PubMed PMID: 37628909; PMCID: PMC10454898.

Prator CA, Dorratt BM, O'Donnell KL, Lack J, Pinski AN, Ricklefs S, Martens CA, Messaoudi I, Marzi A. **Transcriptional profiling of immune responses in NHPs after low-dose, VSV-based vaccination against Marburg virus.** Emerg Microbes Infect. 2023;12(2). Epub 2023/08/24. doi: 10.1080/22221751.2023.2252513. PubMed PMID: 37616377; PMCID: PMC10498809.

Marshall NE, Blanton MB, Doratt BM, Malherbe DC, Rincon M, Messaoudi I. **Monoclonal Antibody Therapy of Breastfeeding Patient Infected with SARS-CoV-2: A Case Report.** Breastfeed Med. 2023;18(8). Epub 2023/08/24. doi: 10.1089/bfm.2023.0102. PubMed PMID: 37615569; PMCID: PMC10460680.

Gonzalez OA, Kirakodu S, Nguyen L, Ebersole JL. **Macrophage-related gingival transcriptomic patterns and microbiome alterations in experimental periodontitis in nonhuman primates.** J Periodontal Res. 2023;58(6). Epub 2023/08/23. doi: 10.1111/jre.13156. PubMed PMID: 37610132.

Atkins PE, Bastin MLT, Morgan RJ, Laine ME, Flannery AH. **Pharmacist Involvement in Sepsis Response and Time to Antibiotics: A Systematic Review.** J Am Coll Clin Pharm. 2023;6(8). Epub 2023/08/23. doi: 10.1002/jac5.1723. PubMed PMID: 37608990; PMCID: PMC10441617.

Cho J, Alexander KL, Ferrell JL, Johnson LA, Estus S, D'Orazio SEF. **Apolipoprotein E genotype affects innate susceptibility to *Listeria monocytogenes* infection in aged male mice.** Infect Immun. 2023;91(9). Epub 2023/08/18. doi: 10.1128/iai.00251-23. PubMed PMID: 37594272; PMCID: PMC10501219.

Haldar J, Garneau-Tsodikova S, Fridman M. **Introduction to the themed collection on antimicrobial resistance.** RSC Med Chem. 2023;14(8). Epub 2023/08/18. doi: 10.1039/d3md90016a. PubMed PMID: 37593571; PMCID: PMC10429685.

Chiasson S, Smith T, Bello L, Chandrika NT, Green KD, Garneau-Tsodikova S, Thompson MK. **Small molecule inhibitors of the fosfomycin resistance enzyme FosM from Mycobacterium abscessus.** Biochim Biophys Acta Gen Subj. 2023;1867(10). Epub 2023/08/15. doi: 10.1016/j.bbagen.2023.130444. PubMed PMID: 37579984; PMCID: PMC10727124.

Daniel-Ivad PG, Van Lanen S, Ryan KS. **Structure of the Oxygen, Pyridoxal Phosphate-Dependent Capuramycin Biosynthetic Protein Cap15.** Biochemistry. 2023;62(17). Epub 2023/08/09. doi: 10.1021/acs.biochem.3c00216. PubMed PMID: 37556254.

Tsui JI, Whitney BM, Korthuis PT, Chan B, Pho MT, Jenkins WD, Young AM, Cooper HLF, Friedmann PD, Stopka TJ, de Gijsel D, Miller WC, Go VF, Westergaard R, Brown R, Seal DW, Zule WA, Feinberg J, Smith GS, Mixson LS, Fredericksen R, Crane HM, Delaney JA, undefined undefined. **Methamphetamine use and utilization of medications for opioid use disorder among rural people who use drugs.** Drug Alcohol Depend. 2023;250. Epub 2023/08/08. doi: 10.1016/j.drugalcdep.2023.110911. PubMed PMID: 37549545; PMCID: PMC10599300.

Ryan ME, Damke PP, Bryant C, Sheedlo MJ, Shaffer CL. **Architectural asymmetry enables DNA transport through the *Helicobacter pylori cag* type IV secretion system.** bioRxiv. 2023. Epub 2023/08/07. doi: 10.1101/2023.07.25.550604. PubMed PMID: 37546756; PMCID: PMC10402047.

Colmer SF, Adams AA, Adam E, Miller R, Stefanovski D, Kulp JC, van Eps A. **The effect of pre-dosing with metformin on the insulin response to oral sugar in insulin-dysregulated horses.** Equine Vet J. 2023. Epub 2023/08/07. doi: 10.1111/evj.13979. PubMed PMID: 37545128.

Uprety T, Sreenivasan CC, Thomas M, Hause B, Christopher-Hennings J, Miskimis D, Pillatzki A, Nelson E, Wang D, Li F. **Prevalence and characterization of seven-segmented influenza viruses in bovine respiratory disease complex.** Virology. 2023;587. Epub 2023/08/07. doi: 10.1016/j.virol.2023.109859. PubMed PMID: 37544044; PMCID: PMC10592214.

Waldman LJ, Butera T, Boyd JD, Grady ME. **Sucrose-mediated formation and adhesion strength of *Streptococcus mutans* biofilms on titanium.** Biofilm. 2023;6. Epub 2023/08/03. doi: 10.1016/j.bioflm.2023.100143. PubMed PMID: 37534044; PMCID: PMC10391683.

Solomon DA, Beieler AM, Levy S, Eaton EF, Sikka MK, Thornton A, Dhanireddy S. **Perspectives on the Use of Outpatient Parenteral Antibiotic Therapy for People who Inject Drugs: Results From an Online Survey of Infectious Diseases Clinicians.** Open Forum Infect Dis. 2023;10(7). Epub 2023/07/31. doi: 10.1093/ofid/ofad372. PubMed PMID: 37520410; PMCID: PMC10372854.

Ibragimov U, Livingston MD, Young AM, Feinberg J, Korthuis PT, Akhtar WZ, Jenkins WD, Crane HM, Westergaard RP, Nance R, Miller WC, Bresett J, Khoury D, Hurt CB, Go VF, Nolte K, Cooper HLF. **Correlates of Recent HIV Testing Among People Who Inject Drugs in Rural Areas: A Multi-site Cross-Sectional Study, 2018-2020.** AIDS Behav. 2024;28(1). Epub 2023/07/29. doi: 10.1007/s10461-023-04140-x. PubMed PMID: 37515742.

Wood PL, Erol E. **Construction of a Bacterial Lipidomics Analytical Platform: Pilot Validation with Bovine Paratuberculosis Serum.** Metabolites. 2023;13(7). Epub 2023/07/29. doi: 10.3390/metabo13070809. PubMed PMID: 37512516; PMCID: PMC10383236.

Price SL, Thibault D, Garrison TM, Brady A, Guo H, Kehl-Fie TE, Garneau-Tsodikova S, Perry RD, van Opijnen T, Lawrenz MB. **Droplet Tn-Seq identifies the primary secretion mechanism for yersiniabactin in Yersinia pestis.** EMBO Rep. 2023;24(10). Epub 2023/07/28. doi: 10.15252/embr.202357369. PubMed PMID: 37501563; PMCID: PMC10561177.

Elery ZK, Myers-Morales T, Phillips ED, Garcia EC. **Relaxed specificity of BcpB transporters mediates interactions between *Burkholderia cepacia* complex contact-dependent growth inhibition systems.** mSphere. 2023;8(4). Epub 2023/07/27. doi: 10.1128/msphere.00303-23. PubMed PMID: 37498085; PMCID: PMC10449530.

Miracle DK, Smith N, Slavova S, Stinson LK, Roberts MF, Rock P, Walsh SL, Freeman PR. **Drug disposal deserts: An assessment of receptacle availability in Kentucky community pharmacies.** J Rural Health. 2024;40(1). Epub 2023/07/26. doi: 10.1111/jrh.12786. PubMed PMID: 37491595.

Farman ML, Ascari JP, Rahnama M, Ponte EMD, Pedley KF, Martinez S, Fernandes JMC, Valent B. **A Reevaluation of Phylogenomic Data Reveals that Current Understanding in Wheat Blast Population Biology and Epidemiology Is Obfuscated by Oversights in Population Sampling.** Phytopathology. 2023. Epub 2023/07/24. doi: 10.1094/PHYTO-01-23-0025-R. PubMed PMID: 37486092.

Graniczkowska KB, Paulose JK, Cassone VM. **Circadian regulation of metabolic, cell division, and cation transport promoters in the gastrointestinal bacterium *Klebsiella aerogenes*.** Front Microbiol. 2023;14. Epub 2023/07/24. doi: 10.3389/fmicb.2023.1181756. PubMed PMID: 37485537; PMCID: PMC10356819.

Thamban Chandrika N, Green KD, Spencer AC, Tsodikov OV, Garneau-Tsodikova S. **Discovery and development of novel substituted monohydrazides as potent antifungal agents.** RSC Med Chem. 2023;14(7). Epub 2023/07/24. doi: 10.1039/d3md00167a. PubMed PMID: 37484566; PMCID: PMC10357949.

Scanlon KR, Keb G, Wolf K, Jewett TJ, Fields KA. ***Chlamydia trachomatis* TmeB antagonizes actin polymerization via direct interference with Arp2/3 activity.** Front Cell Infect Microbiol. 2023;13. Epub 2023/07/24. doi: 10.3389/fcimb.2023.1232391. PubMed PMID: 37483386; PMCID: PMC10360934.

Upton EM, Rudolph AE, Ward PJ, Havens JR, Young AM. **Corrigendum to "Extent and implications of omitted ties on network measures in a longitudinal social network survey of people who use drugs" [Drug Alcohol Depend. 238 (2022) 109554].** Drug Alcohol Depend. 2023;252. Epub 2023/07/23. doi: 10.1016/j.drugalcdep.2023.110901. PubMed PMID: 37481411; PMCID: PMC10615686.

Fletcher P, O'Donnell KL, Doratt BM, Malherbe DC, Clancy CS, Rhoderick JF, Feldmann F, Hanley PW, Ksiazek TG, Geisbert TW, Messaoudi I, Marzi A. **Single-dose VSV-based vaccine protects cynomolgus macaques from disease after Taï Forest virus infection.** Emerg Microbes Infect. 2023;12(2). Epub 2023/07/20. doi: 10.1080/22221751.2023.2239950. PubMed PMID: 37470396; PMCID: PMC10392270.

Szarka D, Gauthier NA, Rahnama M, Schardl CL. **Seeing double on *Cannabis*: Haploids and heteroploids of *Bipolaris gigantea* on hemp and other dicots.** Mycologia. 2023;115(5). Epub 2023/07/18. doi: 10.1080/00275514.2023.2224699. PubMed PMID: 37463242.

Tully DC, Power KA, Sarette J, Stopka TJ, Friedmann PD, Korthuis PT, Cooper H, Young AM, Seal DW, Westergaard RP, Allen TM. **Validation of Dried Blood Spots for Capturing Hepatitis C Virus Diversity for Genomic Surveillance.** medRxiv. 2023. Epub 2023/07/18. doi: 10.1101/2023.07.06.23292160. PubMed PMID: 37461565; PMCID: PMC10350139.

Koo J, Gurusamy D, Palli SR. **Inefficient uptake of small interfering RNAs is responsible for their inability to trigger RNA interference in Colorado potato beetle cells.** Arch Insect Biochem Physiol. 2023;114(2). Epub 2023/07/15. doi: 10.1002/arch.22036. PubMed PMID: 37452750; PMCID: PMC10528746.

Melton M, Thornton A, Pasagic S. **An Atypical Presentation of Acute Syphilitic Posterior Placoid Chorioretinitis With Concurrent Psoriasis Vulgaris Flare in an African American Male Infected With HIV.** Cureus. 2023;15(6). Epub 2023/07/14. doi: 10.7759/cureus.40294. PubMed PMID: 37448438; PMCID: PMC10337511.

Johnson MG, Adam E, Watt A, Page AE. **Effects of High-Speed Training on Messenger RNA Expression in Two-Year-Old Thoroughbred Racehorses.** J Equine Vet Sci. 2023;128. Epub 2023/07/12. doi: 10.1016/j.jevs.2023.104892. PubMed PMID: 37433342.

Sureshchandra S, Doratt BM, True H, Mendoza N, Rincon M, Marshall NE, Messaoudi I. **Multimodal profiling of term human decidua demonstrates immune adaptations with pregravid obesity.** Cell Rep. 2023;42(7). Epub 2023/07/11. doi: 10.1016/j.celrep.2023.112769. PubMed PMID: 37432849; PMCID: PMC10528932.

Mani R, Mercier C, Delauw MF, Suzuki Y. **Immunization with the amino-terminus region of dense granule protein 6 (GRA6) of Toxoplasma gondii activates CD8+ cytotoxic T cells capable of removing tissue cysts of the parasite through antigen presentation by human HLA-A2.1.** Microbes Infect. 2023;25(8). Epub 2023/07/10. doi: 10.1016/j.micinf.2023.105182. PubMed PMID: 37423326.

Jiao Y, Palli SR. **N6-adenosine (m6A) mRNA methylation is required for Tribolium castaneum development and reproduction.** Insect Biochem Mol Biol. 2023;159. Epub 2023/07/09. doi: 10.1016/j.ibmb.2023.103985. PubMed PMID: 37422274; PMCID: PMC10528953.

Rezende W, Neal HE, Dutch RE, Piedra PA. **The RSV F p27 peptide: current knowledge, important questions.** Front Microbiol. 2023;14. Epub 2023/07/07. doi: 10.3389/fmicb.2023.1219846. PubMed PMID: 37415824; PMCID: PMC10320223.

Jacquay ET, Harris PA, Adams AA. **Age-Related Differences in Short-Term Transportation Stress Responses of Horses.** J Equine Vet Sci. 2023;128. Epub 2023/07/04. doi: 10.1016/j.jevs.2023.104879. PubMed PMID: 37399910.

Ascari JP, Cazón LI, Rahnama M, Lamour K, Fernandes JM, Farman M, Del Ponte E. **Pyricularia are Mostly Host-Specialized with Limited Reciprocal Cross-Infection Between Wheat and Endemic Grasses in Minas Gerais, Brazil.** Phytopathology. 2023. Epub 2023/07/03. doi: 10.1094/PHYTO-01-23-0024-R. PubMed PMID: 37399001.

Abdel-Wahab BA, Helmy YA, Saied EM. **Editorial: Molecular and multi-omic approaches in understanding cancer biology and anticancer therapies: current perspectives and new challenges.** Front Pharmacol. 2023;14. Epub 2023/07/03. doi: 10.3389/fphar.2023.1236158. PubMed PMID: 37397474; PMCID: PMC10311088.

Gao R, Wang Z, Uprety T, Sreenivasan CC, Sheng Z, Hause BM, Brunick C, Wu H, Luke T, Bausch CL, Sullivan EJ, Hoppe AD, Huber VC, Wang D, Li F. **A fully human monoclonal antibody possesses antibody-dependent cellular cytotoxicity (ADCC) activity against the H1 subtype of influenza A virus by targeting a conserved epitope at the HA1 protomer interface.** J Med Virol. 2023;95(7). Epub 2023/07/03. doi: 10.1002/jmv.28901. PubMed PMID: 37394780.

Hunter JR, Qiao Q, Zhang Y, Shao Q, Crofcheck C, Shi J. **Green solvent mediated extraction of micro- and nano-plastic particles from water.** Sci Rep. 2023;13(1). Epub 2023/07/01. doi: 10.1038/s41598-023-37490-6. PubMed PMID: 37391491; PMCID: PMC10313666.