

VOL 8.3

ORGSP Quarterly

An ORGSP Newsletter from
Lincoln Memorial University

Opportunities

Awards

Spotlights

FALL 2023

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This quarter's issue focuses on fall research. Learn about the excellent work of LMU's faculty, staff, and students.

Spotlights

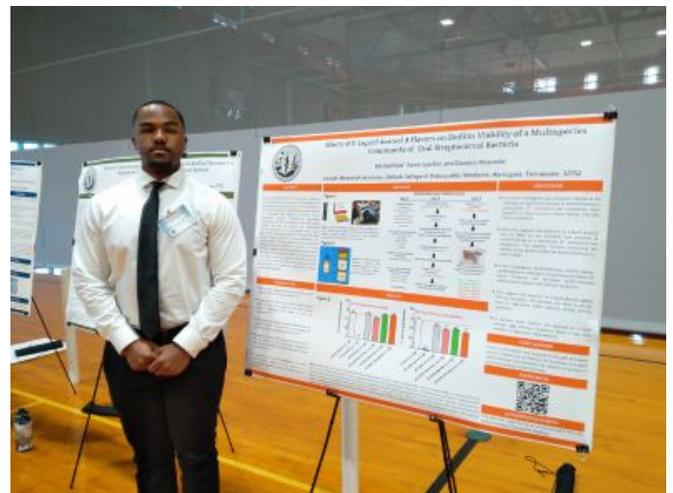
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— *Spotlight*

2023 PHS Task Force Report



From August until October 2023, a Public Health Service Compliance Task Force was formed to explore LMU pursuing Public Health Service (PHS) animal welfare assurance for animal research. This would allow LMU to apply for and receive federal grants for animal research. Below are its findings.

In August 2023, an investigative task force was appointed by the Executive Vice President of Academic Affairs to explore Lincoln Memorial University (LMU) pursuing Public Health Service (PHS) animal welfare assurance. The federal government requires that certain steps must be taken to ensure the humane treatment of animal subjects, such as 24/7 care and monitoring as well as specialized facilities (1). LMU currently does not have the facilities or staff to meet federal requirements. This means that while instructors and students can conduct animal research on campus with appropriate committee approval, LMU cannot accept federal funds related to the work. To support the research needs of faculty and to meet new professional school accreditation standards, as well as to increase facility and administrative funding for the university, the Task Force explored three points: the cost of immediately pursuing PHS animal welfare assurance, the adoption of agreements with Contract Research Organizations, and the creation of a 15–20-year

plan to establish a multi-purpose research facility with new program and teaching space.

Why a concern over PHS compliance?

The concern over PHS compliance is three-fold: instructors desire research opportunities for their students, Deans want to recruit quality faculty who hope to bring previously-awarded funds to LMU, and accrediting bodies such as the American Association of Osteopathic Medicine, the American Veterinary Medical Association, and Commission on Dental Accreditation have all increased emphasis on the research component of accreditation (2). Because animals serve as models to study disease and test therapies in both animals and humans, some instructors seek to include animal research in teaching. The University is currently cut off from applying for animal-related grants from entities such as the National Institute of Health (NIH) and the National Science Foundation (NSF). These grants can run from a quarter-of-a-million to five-million-dollars and not

only cover the designated research, but also cover “Facility and Administration” fees (F&A). For every federal grant LMU receives, 32.2% is directed to F&A costs. This means, for example, that a two-million-dollar NIH grant could generate \$644,000 in F&A funds for LMU.

The cost of immediate PHS compliance

Most universities and colleges that have achieved PHS compliance with an approved animal welfare assurance are public land-grant universities and private entities with substantial histories and endowments. For example, Vanderbilt University is the only private university in Tennessee with PHS approved animal welfare assurance. ³ This is because of the high cost. Research labs can run from \$350 to \$1325 per square foot (4). Additional staff must be hired because of the requirement for 24/7 human care of the animals. For Primary Investigators – the faculty members who take the lead on the grant – sabbatical time is needed to ensure successful completion. The Office of Research, Grants, and Sponsored Programs (ORGSP) would need to increase staff, too, to ensure the management of large federal awards. Mindful of these costs, the Task Force reached out to Michele Cunneen at Animal Research Consulting. In her opinion, unless a university of LMU’s size was already receiving three-million-dollars or more in federal grants, “to apply for and receive small grants that require PHS Assurance is in the end a losing money proposition as the cost of the assurance in both TIME and MONEY” (emphasis Cunneen). She suggested that the University first establish a strong track record of recognition, collaborations, and investment.

Contract Research Organizations

The Task Force also examined the use of Contract Research Organizations (CROs) as an

alternative to developing PHS-compliant space. CROs could work with LMU to review and implement research protocols and critically provide the needed space, Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) accreditation, United States Department of Agriculture (USDA) approval, and PHS approved animal welfare assurance (5). Importantly, CROs support a project throughout its lifetime and cost a fraction of maintaining a laboratory. Because research would take place off-site, the University could not apply the 32.2% F&A rate, but it could still apply an 11.2% off-site F&A rate.

Creating a strategic research plan

Should LMU achieve success with CRO agreements, it may one day look to grow its research opportunities. A gradual investment – a 15–20-year strategic plan – to create a centrally located, dual research and teaching facility in the Harrogate-Knoxville area could accomplish this. The concern surrounding student research opportunities speaks to LMU’s mission to educate, and a building that facilitated Likewise, it could increase teaching opportunities – for example, in the case of the College of Veterinary Medicine, a PHS-compliant space would enhance the curriculum and allow for new program development that cannot currently be offered.

Sources

1 Office of Laboratory Animal Welfare. (2015). Public Health Service Policy on Humane Care and Use of Laboratory Animals. National Institutes of Health. <https://olaw.nih.gov/policies-laws/phs-policy.htm>

2 See American Osteopathic Association. (2023). Standard 8: Research and scholarly activity in

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4 Jones Lang LaSalle IP, Inc. (2023). Lab construction costs and the unique variables at play. <https://www.us.jll.com/en/views/lab-construction-costs-and-the-unique-variables-atplay#:~:text=We%20have%20seen%20in%20our,first%20step%20in%20lab%20pricing>.

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Task Force Members

Natalie Sweet
Chair, ORGSP

Emily Francis
ORGSP

Jennifer Banach
College of Veterinary Medicine

Ashutosh Verma
College of Veterinary Medicine

Adam Rollins
School of Mathematics and Sciences

Hana Hess
School of Mathematics and Sciences

Natalie Freeman
**DeBusk College of Osteopathic
Medicine**

Lori McGrew
**DeBusk College of Osteopathic
Medicine)**

Denise Terese-Koch
College of Dental Medicine

Ammaar Abidi
College of Dental Medicine

Rebecca Bickford
Carnegie-Vincent Library

Rising Scholars

LMU undergraduate research stands out at 133rd Meeting of the Tennessee Academy of Science

Seven students and two faculty (Dr. LaRoy Brandt and Dr. Barbara Shock) from the LMU School of Mathematics and Sciences attended the 133rd Meeting of the Tennessee Academy of Science on Saturday, November 18, 2023, at Rhodes College in Memphis, TN. The LMU Biology Department arranges and funds the travel to this conference each year for Math and Science students, and LMU is currently slated to host the meeting in 2024. Undergraduate and graduate students present research findings in poster and oral student competitions along presentations by faculty and retired faculty. Four of the seven students placed in their sections!

Ecology - Poster Presentations

Spencer Baldwin (Major: Conservation Biology – Wildlife). “Utilizing presence only prediction software to model *Morchella diminutiva* occurrence.” (Mentor: Dr. Barbara Shock)

Trevor Holt (Major: Conservation Biology – Wildlife). “Construction of biomass gasifier and testing of real-world emergencies.” (Mentor: Dr. Ryan Overton)

Logan Taylor (Major: Conservation Biology – Wildlife). “Prevalence of the eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*) in freshwater ecosystems throughout Harlan County, Kentucky.” (Mentor: Dr. Whitney Kistler)

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(L-R) *Joshua Bolden, Spencer Baldwin, Emily Boring, Trevor Holt, Krista Meredith, Logan Taylor, Madison Hall.*

Chemistry – Poster Presentations

Joshua Boldon (Major: Chemistry Pre-Med). “Synthesis and Physicochemical Properties of a Trifluoroacetamido Derivative of Acetaminophen.” (Mentor: Dr. Thomas Shell) – **Second Place**

Ecology – Oral Presentations

Emily Boring (Major: Conservation Biology – Wildlife). “Evaluating the efficacy of a non-invasive hair sampling method for bobcat (*Lynx rufus*) research.” (Mentor: Dr. LaRoy Brandt) – **First Place**

Zoology – Oral Presentations

Krista Meredith (Major: Biology). “Evaluation of *Camellia sinensis* anxiolytic effect in *Danio rerio*.” (Mentor: Dr. MaryBeth Babos) – **Second Place**

Madison Hall (Major: Biology Pre-Health). “Use of eDNA to determine the presence of *Cryptosporidium* spp. in freshwater sources in Harlan, Kentucky.” (Mentor: Dr. Barbara Shock) – **First Place**



Interested in Mentoring a Promising Undergraduate Researcher?

In 2024, the Office of Research, Grants, and Sponsored Projects will continue to host its monthly “Lunch and Learn” series on the Harrogate campus as well as an accompanying session at Cedar Bluff in Knoxville. The first January session in 2024 will focus on mentoring undergraduates as a part of the Appalachian College Association’s Ledford Scholars Program.

Appalachian College Association press release:

The Appalachian College Association is pleased to announce that the application period for the 2024 Ledford Scholars Program is now open. Eligible undergraduate students from ACA institutions are encouraged to seek funding to support their intensive research projects in either the summer or fall terms of 2024.

Deadline for fully completed applications (including endorsement letters from the students' faculty mentors and chief academic officers) is Wednesday, February 21, 2024. Visit the [Ledford Scholars webpage](#) to review full details on the program and to submit applications and supporting materials.



Contract Research Organizations

— In an effort to highlight research resources/options that are available to the LMU community, ORGSP will be highlighting these aids in each issue of The ORGSP Newsletter.

Why Use a Contract Research Organization?

Because LMU does not have animal welfare assurance, federally sponsored projects that involve animal research cannot take place on campus. However, the ORGSP can work with you to identify a Contract Research Organization (CRO) who will fit your needs. A Contract Research Organization (CRO) is a company that provides research services on a contractual basis. The CRO will have established procedures and facilities to ensure compliance.

CROs are experienced in navigating the regulatory landscape surrounding animal research. However, to ensure compliance, LMU requires that any CRO be reviewed by LMU's IACUC before an understanding and/or a contract with the CRO is issued. If you are interested in pursuing a federally sponsored project that includes animal research, or if you are interested in contracting with a CRO for your research needs, please reaching out to natalie.sweet@lmunet.edu to schedule a consultation.

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Spotlight CRO:

East Tennessee Clinical Research, Inc.

Website:

<https://www.easttenncr.com/>

About ETCR

Craig Reinemeyer, DVM, PhD, established ETCR, a privately held company, in 1997 following over a decade of leading clinical trials at The University of Tennessee College of Veterinary Medicine. Equine, ruminant, and small animal parasiticides are areas of acknowledged specialization.

Facilities

ETCR offers a vast array of big animal housing facilities with a large configuration of feeding and watering apparatuses as well as movable stall components.

Established Relationship to LMU

ETCR has provided services for a number of research projects, particularly as relates to LMU's College of Veterinary Medicine.



Scholarship from the Dental Medical School

Publications:

Undral Munkhsaikhan, Young In Kwon, **Amal M. Sahyoun**, María Galán, Alexis A. Gonzalez, **Karima Ait-Aissa**, **Ammaar H. Abidi**, Adam Kassan, and **Modar Kassan**. 2023. "The Beneficial Effect of Lomitapide on the Cardiovascular System in LDLr-/- Mice with Obesity" *Antioxidants* 12, no. 6: 1287.

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Scholarship from the DeBusk College of Osteopathic Medicine

Publications:

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Imran, K. M., Gannon, J., Morrison, H. A., Tupik, J. D., Tintera, B., Nagai-Singer, M. A., Ivester, H., Madanick, J. M., **Hendricks-Wenger, A.**, Uh, K., Luyimbazi, D. T., Edwards, M., Coutermarsh-Ott, S., Eden, K., Byron, C., Clark-Deener, S., Lee, K., Vlasisvljevich, E., Allen, I. C. "Successful In Situ Targeting of Pancreatic Tumors in a Novel Orthotopic Porcine Model Using Histotripsy." *Ultrasound in Medicine & Biology*.

Copenhaver, W. K., & Averell, N. (2023). The need for exclusion when exploring the relationship between sleep apnea and vestibular symptoms after traumatic brain injury. *PM&R*. <https://doi.org/10.1002/PMRJ.13060>. August 24, 2023 4.



Scholarship from the DeBusk College of Osteopathic Medicine

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Gannon, J., Imran, K. M., **Hendricks-Wenger**, A., Edwards, M., Covell, H., Ruger, L., Singh, N., Nagai-Singer, M., Tintera, B., Eden, K., Mendiratta-Lala, M., VidalJove, J., Luyimbazi, D., Larson, M., Clark-Deener, S., Coutermarsh-Ott, S., Allen, I. C., Vlaisavljevich, E. "Ultrasound-guided Noninvasive Pancreas Ablation Using Histotripsy: Feasibility Study in an In Vivo Porcine Model." *International Journal of Hyperthermia*. <https://doi.org/10.1080/02656736.2023.2247187>. August 29, 2023.

League, M. and Eick, J. "Successful Treatment of Xanthogranulomatous Cholecystitis Following Total Knee Replacement." DOI: 10.7759/cureus.44474 August 31, 2023.

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Copenhaver, W.K. "Osteopathic Manipulative Treatment for the Allopathic Resident Elective: Comments on Survey Selection." *Journal of Osteopathic Medicine*. Published September 14, 2023.

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Scholarship from the DeBusk College of Osteopathic Medicine

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Tariq, N., Scheetz, C., and Weinstock M.D., M. "Headache and Paranoid Delusions: A Case Report of Missed Neurocysticercosis" - *Journal of Urgent Care Medicine*. (n.d.). October 11, 2023, from <https://www.jucm.com/headache-andparanoid-delusions-a-case-report-of-missed-neurocysticercosis/>

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Heido, J., Keng, S., **Kadevari, P.**, Poyrazoglu, H., Priyam, E., & Jayasinghe, S. (2023). Not all Bacterial Outer Membrane Proteins are β -Barrels. *BioRxiv*, 2023.10.25.564060.
<https://doi.org/10.1101/2023.10.25.564060> (Preprint November 11, 2023).



Scholarship from the DeBusk College of Osteopathic Medicine

Publications (continued):

Gianakos, A. L., **Hartman, H.**, Kerkhoffs, G., Kennedy, J. G., ‘Sex Differences in Biomechanical Properties of the Achilles Tendon May Predispose Men to Higher Risk of Injury: A Systematic Review.’ Journal of ISAKOS, 0(0). <https://doi.org/10.1016/J.JISAKO.2023.11.001> Published November 13, 2023.

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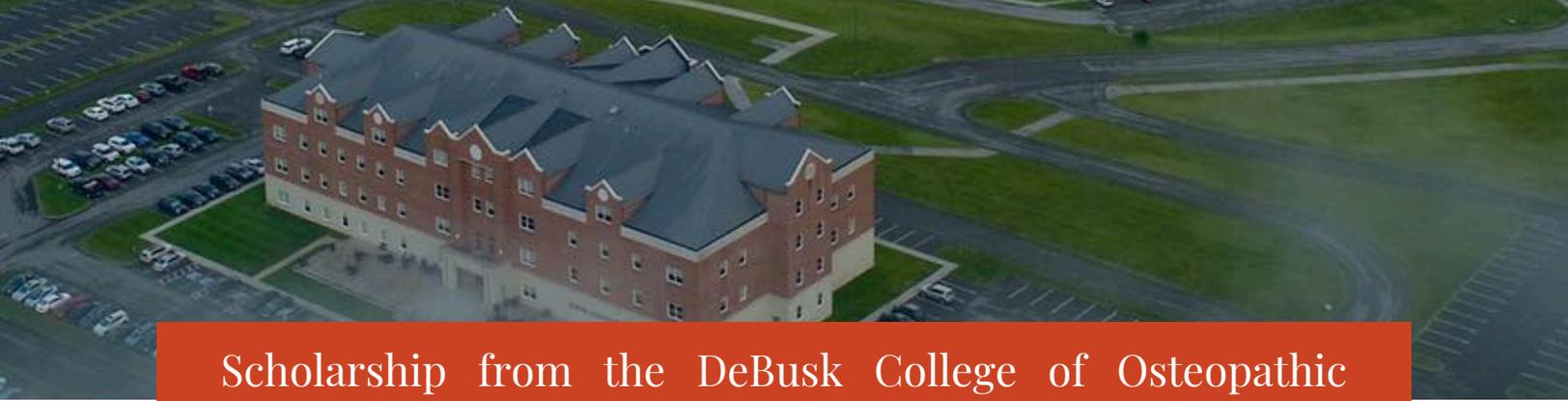
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Posters and Presentations

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Blair, B. Babos, M.B. “Sickle Cell Experience in Rural Communities” VCOM National Rural Medicine Conference 2023. August 26, 2023.

Freeman, N., McGrew, L., Miller, L., Gulley, C., and McCoy, A. “Working with Students in Research.” LMU-DCOM Faculty and Staff Development. September 1, 2023.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

McCoy, K. and **Miller, L.** "Investigating the Role of Methylsulfonylmethane and Epigallocatechin Gallate on Lymphatic Endothelial Cells Following Exposure to High Saturated Fat and Inflammation." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 8, 2023.

Sherrod, H., Le, A., and **McGrew, L.** "Assessing Anxiolytic Properties of Appalachian Plants Using Danio Rerio and HPTLC." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 8, 2023.

Erickson, N. and **Gassler, J.** "Morphological Variations of the Cystic Artery Among Human Donors of Rural Appalachia." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 8, 2023.

Nguyen, D., and **Zeller, A.M.** "OMT Effects on Relaxation of Cervical Muscles Contributing to Headaches in Graduate School Students." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 8, 2023.

Fox, C., and **McGrew, L.** "BRAINS Big 10: Building Rural Appalachian Integrative Neurology Systems." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 8, 2023.

Lester, C., and **Babos, M.B.** "Knowledge and Opinions about Cannabis: A Pilot Study" LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 8, 2023.

Boggala, M. and **Miller, L.** "Correlation of Perceived Stress and Physical Activity Levels on Central Aortic vs Brachial Blood Pressures." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Blair, B., and **Babos, M.B.** "Sickle Cell Disease Knowledge and Experience." LMUDCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Cates, D., and **Gassler, J.** "Effect of Gut-Brain Axis Health on Amyotrophic Lateral Sclerosis." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

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Posters and Presentations (continued):

Hart, S., and Thompson, B. "Histological Investigations of Cadaveric Donors." LMUDCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Trickett, C., Headrick, J., Sowder, H., and Freeman., N. "Baicalein Impact on Pancreatic Tumor Cells In Vitro." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Banks, J. and Thompson, B. "An Innovative Case Report: Obesity and Portal Hypertension." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Hopper, B., and Miller, L. "Lymphatic Dysfunction: A New Model and Dietary Interventions." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Newhouse, D., and Freeman, N. "Flavanoid Impact on Bone Development in Zebrafish." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Schultheiss, I., and Gassler, J. "Efficacy of 3D Printed Models in Anatomical Education." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Carter, J., and Hamilton, B. "The Contribution Factors in Contraceptive Use and Sex Education that Attribute to Disparities in Reproductive Health in Communities of Color." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Murray, D., and Hamilton, B. "Reproductive Health Disparities: A Focus on Contraception and Sex Education in Minority Women and Adolescents." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Nallanagula, T., and Gromley, Z. "Link Between G6PD Deficiency and Development of Parkinson's Disease." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Williams, C. and Vashisht, A., Singh, H., Ahluwalia, P., Mondal, A., Vashisht, V., Sahajpal, N., Shan, M., Rutowski, E., Kolhe, A.M.R. "COVID-19 and the Nervous System: Mechanism, Symptoms, and Therapeutic Strategies." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Barnett, M., and **Thompson, B.** "Innovations in Histology Education: Utilizing Innovative Modules, Practice Questions and Comparison Slides to Improve Students Retention, Knowledge and Exam Scores." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Agaja, O., and **Freeman, N.** "Pre-surgical Interventions and Orthopedic PostSurgical Outcomes." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Harrod, J. and **Mondal, D.** "Effects of CDDO-Me and Nelfinavir Combined Therapy on Aggressive Prostate and Pancreatic Cancer Cell Lines." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Whaley, A., and **Mondal, D.** "Determining the Combined Effect of DMSO and Enzalutamide on Aggressive Prostate Cancer Cell Lines." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 15, 2023.

Hartman, H., and Gianakos, A. "Fertility Awareness is Decreased Amongst Medical Trainees Due to Lack of Formal Education." Women in Medicine Summit. Chicago, IL. September 20-24, 2023.

Hartman, H., and Gianakos, A. "Gender Differences in Achilles Tendon Ruptures- A Retrospective Study and a Review of Literature." Women in Medicine Summit. Chicago, IL. September 20-24, 2023.

McGrew, L., Miller, Freeman, N., Gulley, C., and **McCoy, A** "Getting Started with Research." LMU-DCOM Student Seminar. September 21, 2023.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Huff, W., and **Palazzolo, D.** "Effects of ECIG-Generated Aerosol Flavors on the Growth of *Porphyromonas Gingivalis* and Its Ability to Produce Colonies." LMUDCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Smith, A., and **Freeman, N.** "Investigating the Antitumor Effects of Flavonoids in Osteosarcoma Treatment: Targeting Signaling Pathways for Better Outcomes." LMUDCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Orrson, K., and Dharmasena, M. "Antimicrobial Properties of Some Selected Nanoparticles Against Some Selected Bacteria." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Bradley, E., and **Gromley, Z.** "Investigation of Mutations in the HECTD1 Gene in Various Epithelial Cancer Cell Lines." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Brown, C., Pennington, J., Smith, A., Keck, G., and **Babos, M.B.** "Ethnobotany of Appalachia" LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Samuel, J. and **Gromley, A.** "Analyzing the Role of Centrosome Protein in the Development of Melanoma." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Sanford, R. and **Kunigelis, S.** "A Comparative SEM Study of Protocerebral Neurocircuitry Between Three Copepod Species." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Donahoe, M., and **Kunigelis, S.** "Using Copepod Cuticle for the Repair of Human Gastrointestinal Lesions." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Rosner, J., Naik, S., and Mondal, D. "A Collaborative Project Monitoring Castration Resistant Prostate Cancer (CRPC) Cell Proliferation Using Finasteride, Enzalutamide, and Bardoxolone-me Combination." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Thakran, E., and Mondal, D. "Effect of Bardoxolone methyl (COD-ME) and Sulforaphane Combination Drug Therapy on Castration-Resistant Prostate Cancer (C4-2B Cell Lines) Using Cellular Signaling and Expression of Inflammatory Markers via Western Blot Analysis." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Byron, H., Sayed, M., and Babos, M.B. "Acceptability of Animal Derived Medicines." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

McKay, A., Haver, A., and Zeller, A.M. "Osteopathic and Integrative Approaches to the Treatment of Scars." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Mitchell, I., and Gromley, A. "Analysis of Expression Levels of Key Centrosome Proteins in Cultured Sarcoma Cell Lines of Varied Origin." LMU-DCOM Showcasing Excellence Research Scholar Award Exhibition. September 29, 2023.

Blair, B., and Babos, M.B. "Knowledge and Treatment of Sickle Cell Disease in Appalachia: A Survey." ATRN 2023 Annual Health Summit October 5, 2023, WVU Morgantown, WV.

Fox, C., and McGrew, L. "Obstacles and Opportunities in the Conduction of Neuroscience Research in Rural Appalachia." ATRN Annual Health Summit WVU. Morgantown, WV. October 5-6, 2023.

Neiman, N., Mueller, C., Bensen, R., Ming Yeh, A., and Wren, A. "Exploring Health Mindset in Adolescents and Young Adults with Inflammatory Bowel Disease: Relationship Between Health Mindset and Psychosocial Outcomes." NASPGHAN 2023 Annual Meeting in San Diego, CA. October 5, 2023.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Neiman, N., Mueller, C., Bensen, R., Ming Yeh, A., and Keefer, L. "Assessing Acceptance among Young People with Inflammatory Bowel Disease: Development of the Inflammatory Bowel Disease Acceptance Questionnaire for Adolescents and Young Adults." NASPGHAN Annual Meeting, October 5, 2023.

Sherrod, H. and **McGrew, L.** "Assessing the Anxiolytic Properties of Native Appalachian Herbs Passiflora Incarnata and Hypericum Perforatum in Dan Rerio." OMED October 6, 2023.

Wenger, F. 4th Friday Preceptor Development Presentation: Teaching Clinical Reasoning took place on October 6, 2023

Thompson, M., Ryder, E. Le., A. Caldwell, H., and **Wang, J.** "Loss of T790M Appears to be Associated with Resistance and Shortened Progression-Free Survival in Osimertinib Treated EDJR Mutant Non-Small Cell Lung Cancer Patients, a MetaAnalysis. AOA-OMED, virtual. October 6-8, 2023.

Toma, N., Herrell, H. "Is ChatGPT Useful for Medical Queries?" Abstract/Poster. SIDM Conference October 9, 2023.

McGrew, L., Miller, L., Freeman, N., McCoy, A., and **Gulley, C.** "Institutional Review Board(IRB), Institutional Animal Care and Use Committee (IACUC), and Institutional Biological and Chemical Safety Committee (IBCSC)" LMU-DCOM Faculty and Staff Development. October 11, 2023.

McGrew, L., Miller, L., Freeman, N., McCoy, A., and **Gulley, C.** "Institutional Review Board(IRB), Institutional Animal Care and Use Committee (IACUC), and Institutional Biological and Chemical Safety Committee (IBCSC)" LMU-DCOM Faculty and Staff Development. October 11, 2023.

Caldwell, H., Le, A., and **Wang, J.** "MET, Her2, and p53 Alterations and Osimertinib Resistance in EGFR Mutant Non-Small Cell Lung Cancer Patients: A Meta-Analysis." American College of Osteopathic Internists Annual Meeting. Tampa, FL. October 11- 14, 2023. 3rd Place Award.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Moon, J., and Sajnani, K. "IVIIG-Induced Hemolytic Anemia: A Case Report." ACOI Convention October 11-14, 2023

Adkins, C. and Tadlock, M. "One if by Land and Two if by Sea: A Review of Appendicitis Management in Austere Locations with Implications for Future U.S. Military Multi-Domain Operations." Presentation. Presentation American College of Surgeons Clinical Congress, Boston, MA. October 22-25, 2023.

Cantrell, M. & Kahlon, A. "Lyme Disease Manifesting as Inflammatory Bowel Disease: A Case Study." American College of Gastroenterology Scientific Meeting. Vancouver, B.C. Oct 20-25, 2023.

Eximond, M., and Kirshner, A. "Combination Immune Checkpoint Therapy and Radiotherapy for Castration-Resistant Prostate Cancer." American Society for Therapeutic Oncology Meeting. September 30 – October 4, 2023.

Sudhi, S. Browning, A., Kevil, M., Rangel, T., Carlson, R. and Miller, L. "Comparison of Dietary Intake, Continuous Blood Glucose Measurement, and Physical Activity in Nurses working either 12-hour day or night shifts. Clinical Inquiry Virtual Symposium. October 26, 2023.

Freeman, N., McGrew, L., Miller, L., Gulley, C., McCoy, A. "Presenting, Publication, Research Awards and Grants" LMU-DCOM Research Faculty Development" November 11, 2023.

Onyeke, S., and **Okon, S.** "Cryoneurolysis of the Subcostal Nerve." ASRA- American Society of Regional Anesthesia and Pain Medicine. November 9-11, 2023.

Trickett, C., Headrick, J., Sowder, H., and Freeman, N. "Impact of Baicalein and EGCG on PANC-1 Pancreatic Cancer Cell Line Importance in Rural Health Approach to Cancer." 29th Annual Conference Rural Health Association of Tennessee. November 15-17, 2023.

Erickson, N. and **Gassler, J.** "Morphological Variations of the Cystic Artery Among Human Donors of Rural Appalachia." 29th Annual Conference Rural Health Association of Tennessee. November 15-17, 2023

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Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Orrson, K. and Dharmasena, M. "Antimicrobial Properties of EuZnO(1hr), EuZnO(15min), and CaF₂ Against Methicillin-Susceptible Staphylococcus Aureas, Methicillin-Resistant Staphylococcus Aureas and Escherichia coli." 29th Annual Conference Rural Health Association of Tennessee. November 15-17, 2023.

Pearson, D., Mastronardi, A., Young, M.L., Maples, J.M.M., and Zite, N.B. "Assessing Association of Adolescent Pregnancy and Residential Zip Code Using Area Deprivation Indices." 29th Annual Conference Rural Health Association of Tennessee. November 15- 17, 2023.

Minton, S., Cudra, G., and **Palazzo, D.** "Effects of Flavored E-liquids on Glutathione Levels of Oral Epithelial Cells: A Comparison of HPLC - Fluorescence and HPLC-UV Methodologies" Tennessee Academy of Sciences. November 18, 2023.

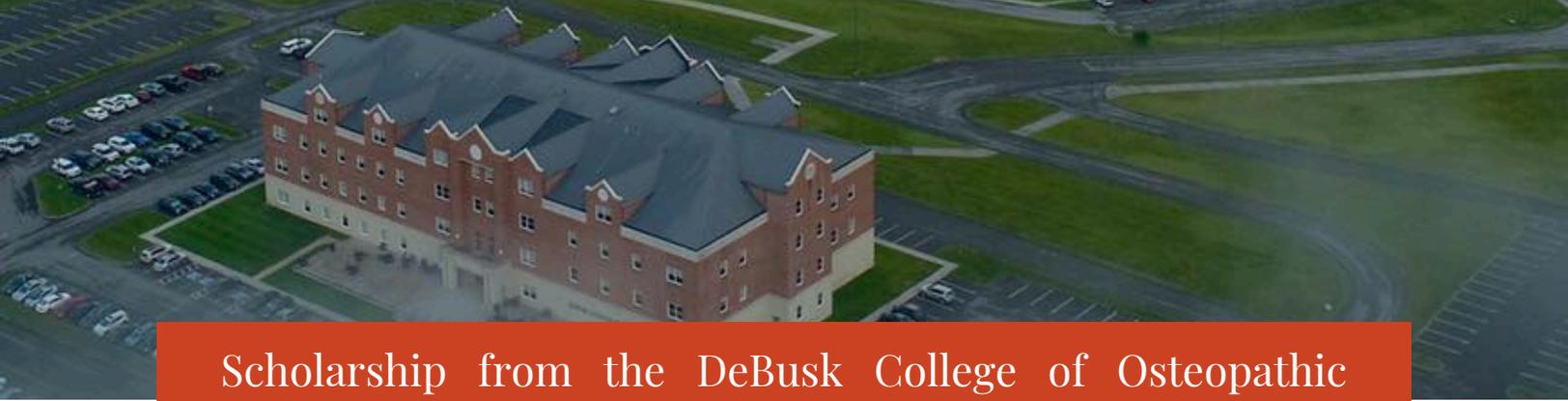
Huff, W., and **Palazzo, D.** " Effects of Electronic Cigarette-Generated Aerosol ± Flavors on the Growth of Porphyromonas Gingivalis." Tennessee Academy of Sciences. November 18, 2023. 1st place award

Sperber, S., and **Palazzo, D.** "Effects of E-liquid Aerosol ± Flavors on the Formation of a Biofilm/Biomass in a Multispecies Community of Oral Streptococcal Bacteria." Tennessee Academy of Sciences. November 18, 2023. 2nd place award

Kalu, M., and **Palazzo, D.** "Effects of E-liquid Aerosol ± Flavors on Biofilm Viability of a Multi-Species Community of Oral Streptococcal Bacteria." Tennessee Academy of Sciences. November 18, 2023. 3rd place award

Defranco, G., Gunterstockman, B., and Rheault, I. "Confidence in Interpersonal Communication Following Interprofessional Empathy Training" IPEC Poster Fair, November 30, 2023.

Clinch, C., Cope, A., Defranco, G., Marlowe, S., and Jones, C. "Preceptor Pearls Discussion Panel" Friday, December 4, 2023.



Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations (continued):

Schultheiss, I., and **Gassler, J.** "Efficacy in 3D Models in Anatomic Education." RMEC, University of Kentucky. December 8-10, 2023.

Gray, C., and Marlowe, S. "Systemic Blastomycosis Presenting as ARDS." 2023 Region 10 Regional Medical Education Conference Research Symposium (RMEC). December 9, 2023.

Kalu, M., and **Palazzolo, D.** "Effects of E-liquid Aerosol ± Flavors on Biofilm Viability of a Multi-Species Community of Oral Streptococcal Bacteria." 2023 Region 10 Regional Medical Education Conference's Research Symposium. December 9, 2023.



Scholarship from the Richard A. Gillespie College of Veterinary Medicine

Publications:

Hunt Julie A, Moses Mitch S, Wisnieski Lauren, Anderson Stacy L. Student experience and clinicians' longitudinal evaluations demonstrate diversity of experience and achievement of day-one competency in a distributed model of clinical education: A mixed-methods study. *Journal of Veterinary Medical Education*. In press.

Devine Elizabeth, McCracken M, **Miller Lynda**, Miller D, **Anderson Stacy L, Hunt JA.** Development and validation of an equine castration model and rubric. *Journal of Veterinary Medical Education*. Advance Access Article. DOI: 10.3138/jvme-2023-0118

Hunt Julie A, Dascanio John. Best practices for building and delivering clinical skills curricula using live animals and alternatives. E-book chapter. "Handbook for the Use of Animals in Veterinary Education," editors Baillie S, Delcambre J, **Hunt JA**. In press.

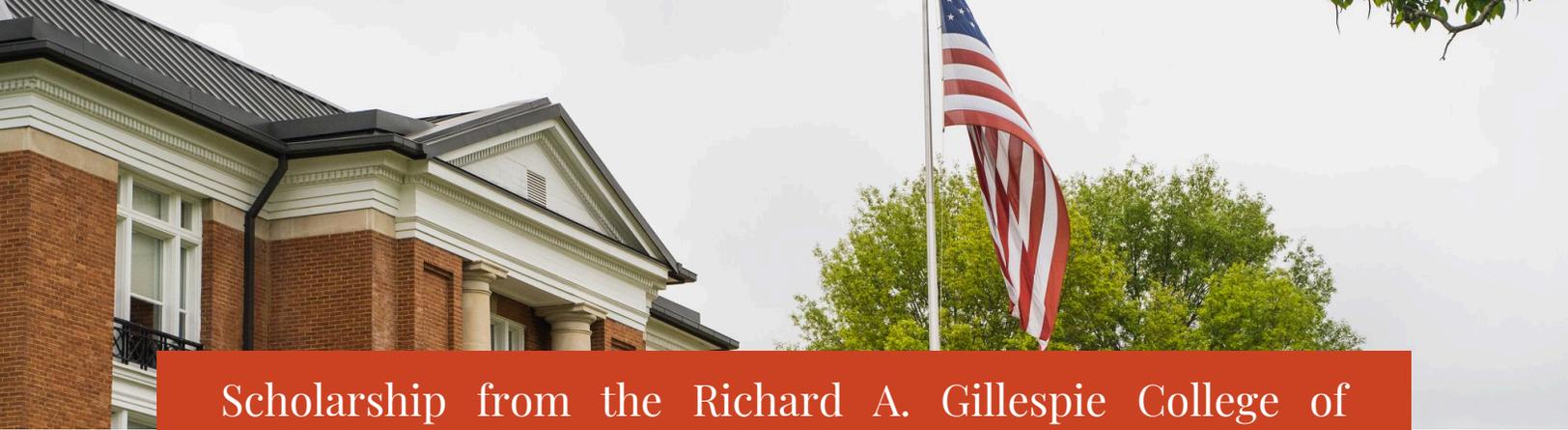
Simons Micha C, Thomovsky S, **Hunt Julie A**, Jolley Katrina. Book chapter "Mentoring students" in *Educational Principles and Practice in Veterinary Medicine*, editor Fogelberg K. Hoboken, NJ: Wiley. In press.

Hunt Julie A. Book chapter "Building bridges between research and practice" in *Educational Principles and Practice in Veterinary Medicine*, editor Fogelberg K. Hoboken, NJ: Wiley. In press.

Favale Thomas C, Pulliam Dustin J, Verma Ashutosh, Hunt Julie A. Foundations for success: Professional life skills program advances veterinary education. *Journal of the American Veterinary Medical Association*. In press.

Verma Ashutosh, Hunt Julie. Novel leptospirosis research at Lincoln Memorial University. *American Journal of Veterinary Research*. In press.

Wisnieski L, Faulkner V and Faulkner C (2023) Factors associated with heartworm preventative use in the golden retriever lifetime study. *Front. Vet. Sci.* 10:1208804.



Scholarship from the Richard A. Gillespie College of Veterinary Medicine

Presentations:

Hunt Julie A. Simulating ovariohysterectomy: What type of practice promotes short- and long-term retention of skills. Veterinary Educators' Collaborative. Amarillo, TX. 26-27 October 2023.

Hunt Julie A. If you build it, they will learn: A review of models in veterinary surgical education. ACVS Surgery Summit. Louisville, KY. 12-14 October 2023.

Anderson Stacy A, Simons Micha, Farrell Robin, Baillie Sarah, **Hunt Julie A,** Fransson Boel. Panel discussion: Best practices in surgical education. American College of Veterinary Surgeons Surgery Summit. Louisville, KY. 12-14 October 2023.

Scholarship from the School of Business

Presentations:

Kelsey Metz and **Joshua Ray,** "AI in the Classroom: Leveraging Technology for Improved Classroom Experience," International MOBTS, University of St. Andrews, Scotland, United Kingdom, 2023.

Sheree Schneider, Petra Brnova, and **Lisa Blair-Cox,** Experiential Learning to Enhance the Business Curriculum, 2023 Appalachian College Association Summit, Knoxville, TN.



Scholarship from the Hamilton School of Arts, Humanities and Social Sciences

Presentations:

Ann-Marie Buchanan, North American Association of Christians in Social Work 73rd Convention, in Pittsburgh, PA Buchanan, A., & Davis, O. "Lessons From The Grave!"

Charlie Gee traveled to Denver, Colorado to present at the Fulbright Conference in October 2023.

William Hardy, "Early East Tennesseans Who Shaped American Democracy" (lead presenter). "Tennesseans Who Shaped American Democracy," Library of Congress Teaching with Primary Sources Teacher Workshop, East Tennessee History Center, Knoxville, Tennessee, December 15, 2023.

William Hardy, "Lincoln's Example of Leadership" (invited lecturer in Dr. Michael Wieting and Dr. Brandy Fuesting's DOSYS 781 Foundations of Modern Healthcare I course). Lincoln Memorial University, Harrogate, TN, November 8, 2023.

William Hardy, "Redefining the Purpose of the American Civil War: Abraham Lincoln as Moral Leader." Kincaid Lecture Series, Abraham Lincoln Library and Museum, Lincoln Memorial University, Harrogate, TN, September 22, 2023.

William Hardy, Discussion on "'A Perfect Mania': The Origins of 'Base Ball' in Knoxville, Tennessee" began airing on C-span's American History in September and has been regularly aired every 2-3 weekends since.

Stephanie Holyfield, Presented a National Register of Historic Places nomination at a meeting of the Delaware Historic Architecture Review Board (October 2023).

J. Anita Black presented at the Southern Criminal Justice Association in Mobile, AL (Fall, 2023).

Kelsey Braun presented at the Society for Teaching in Psychology. Annual Conference (October 2023). Portland, OR.



Scholarship from the Hamilton School of Arts, Humanities and Social Sciences

Presentations:

Adam Dean, "Service Learning Through Community-centered Media Projects," 2023 Appalachian College Association (ACA) Summit, Knoxville, TN.

Savannah Campbell attended the Project Narrative Summer Institute through Ohio State University in late June and presented information on her dissertation research related to expressive therapies and their benefits in mental health treatment.

Tom Bragg presented at the Victorians Institute conference on "Then Good Man: A French Rebellion in Victorian Historical Romance". October 2023.

Publications:

William Hardy, review of the *Black Suffrage: Lincoln's Last Goal* by Paul D. Escott (Charlottseville: **University of Virginia Press**, 2022), *The Register of the Kentucky Historical Society* 121 (Winter 2023): 79-90.

Carson Benn, review of Aaron Purcell, ed. *Lost in Transition: Removing, Resettling, and Renewing Appalachia* (Knoxville: *University of Tennessee Press*, 2021) for *Journal of Appalachian Studies* (Expected Winter, 2023).

Martin Sellers, "Name, Image, and Likeness (NILs): What Impact Will NILs Have on Students in the Classroom?" *Journal of Higher Education Theory and Practice*. Vol.23 No.2 (2023).

Benjamin Mabry's book review of Steven Bullivant's *Nonverts* was published in the August and September edition of *First Things Magazine*.

Asbury, E. Trey. Telehealth and the COVID-19 Pandemic: Making the Pivot from Offline to Online Therapeutic Interventions. *Cyberpsychology, Behavior, and Social Networking*, 2023.

Camagamagan, A., **Asbury, E. Trey**, Terrizzi, J., & Smith, G. Social, Behavioral, and Academic Ramifications of Video Game Playing in College. **Graduate Student Journal of Psychology**. In Press.



Scholarship from the Hamilton School of Arts, Humanities and Social Sciences

Publications (Continued):

Tang, Y., Julian, C., **Braun, K.**, Stinger, S., & Williams, S. (2023, in-press). Multiple stigmas and their dimensions: The mediating role of self-compassion in reduced resilience. *Adversity & Resilience Science*.

Fairy-Tale Revivals in the Long Nineteenth Century: Writing Wonder in Transatlantic Ethnic Literary Revivals, 1850–1950. Collection of primary texts. Volumes 1-2. **Abigail Heiniger**, ed. *Routledge Press*. 12 September 2023.

Tom Bragg, “Not Our William Wallace.” Peer-reviewed article, *Kentucky Philological Review*. Forthcoming in 2023-24.

Rebecca Brackmann, *Old English Scholarship in the Seventeenth Century: Medievalism and National Crisis*. Woodbridge: Boydell and Brewer, 2023.

Patrick Wensink, Novel manuscript “Nine Times Out of Ten You Don’t Die” was accepted for publication.

Scholarship from Administrative Staff

Presentations

Carver, J. (2023). Striving for continuous improvement: Integrating strategic planning and assessment [Conference session]. Southern Association for Institutional Research (SAIR) Conference, Point Clear, AL.

Carver, J. & Duggan, M. (2023). Humor and collaboration in institutional assessment practices [Conference session]. Appalachian College Association (ACA) Summit, Knoxville, TN.

Elise Syoen and **Dawson Delph**, “Stop! collaborate, and Listen: Building a Collaborative Team.” 2023 Appalachian College Association (ACA) Summit, Knoxville, TN.



Scholarship from Administrative Staff

Presentations (Continued):

Dawson Delph, "Gen Z as Supervisors: A Zoomer's Approach to Supervision," 2023 Appalachian College Association (ACA) Summit, Knoxville, TN.

Blaze Bowers, "A Higher Education Law and Policy Update," 2023 Appalachian College Association (ACA) Summit, Knoxville, TN.

Blaze Bowers and **Elise Syoen**, "Promising Practices: Compliance & Supportive Measures for Pregnant and Parenting Faculty, Staff, and Students," 2023 Appalachian College Association (ACA) Summit, Knoxville, TN.

Scholarship from the School of Mathematics and Sciences

Presentations:

Gendron, L. N.; Sheveland C. G.; Shell, **T. A.**; **Shell**, J. R. Radiation-Activated Cobalamin-Kinase Inhibitors for Treatment of Pancreatic Ductal Adenocarcinoma. Under review by Mol. Pharmaceutics, 2023 <https://doi.org/10.1021/acs.molpharmaceut.3c00667>

Gendron, L. N.; Shell J. R.; **Shell T. A.** Light-Mediated Double-stranded DNA Cleavage by a Dicobalamin Complex. J. Photochem. Photobio., 2023, 18, 100209.

Boldon, J. A.; **Shell, T. A.** Physicochemical properties and cytochromes P-450 kinetics of a trifluoroacetamido derivative of acetaminophen. Results Chem., 2023, 6, 101129. (Part of Special Issue: Bioorganic Chemistry and Drug Discovery)

Boldon, J. A.; **Shell, T. A.** Physicochemical properties of acedoben and its trifluoroacetamido derivative. Results Chem., 2023, 6, 101075



Scholarship from the School of Mathematics and Sciences

Presentations Continued:

Shell, T. A. Physicochemical properties of trifluoroacetamido derivatives of acetaminophen and acedoben, UNC Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, October 26, 2023.

Boldon, J. A.; Shell, T. A. Synthesis and Physicochemical Properties of a Trifluoroacetamido Derivative of Acetaminophen. Tennessee Academy of Science Annual Meeting, Memphis, TN, November 18, 2023. (Second Place Award for Chemistry Poster Section)

Boldon, J. A.; Shell, T. A. Physicochemical properties of trifluoroacetamido derivatives of acetaminophen and acedoben. Southeastern Regional Meeting of the American Chemical Society, Durham, NC, October 25-28, 2023.

Boldon, J. A.; Shell, T. A. Physicochemical Properties and Cytochromes P-450 Kinetics of a Trifluoroacetamido Derivative of Acetaminophen. McNair-Ledford Undergraduate Research Symposium, Cleveland, TN, September 29, 2023.

Publications:

Eckhart Spalding, Ronald Wilhelm, Nathan De Lee, **Stacy Long**, Timothy C Beers, Vinicius M Placco, John Kielkopf, Young Sun Lee, Joshua Pepper, Kenneth Carrell, rrlfe: software for generating and applying metallicity calibrations for RR Lyrae variable stars across a wide range of phases and temperatures, Monthly Notices of the Royal Astronomical Society, Volume 527, Issue 1, January 2024, Pages 828–845, <https://doi.org/10.1093/mnras/stad3199>

Scholarship from the Carter & Moyers School of Education

Presentations

Chessica Cave and **Ashley Stanley**, "The New Faculty Academy: Empowering Your Faculty for the Complex, Dynamic, Unique Nature for Effective Teaching," 2023 Appalachian College Association (ACA) Summit, Knoxville, TN.



Recent Grant Awards

Robin Johnson (Security) received notification that she received a Tennessee High Visibility Grant.

Kim Carney (CVM), received a Veterinary Educator Professional Development Grant from the American Veterinary Medical Association.

Brent Thompson and **Jenna Aungst** (DCOM) received an Intersociety Council for Pathology Information Medical Student Interest Grant.

Rachel Motes (Carnegie-Vincent Library), received a Tennessee Board Programming Grant from the Tennessee State Library and Archives, for “Enhancing the Digital Collections of the University Archives and Special Collections.”

Jody Goins (representing JFWA) received a Non-Public Schools Security Grant from the state of Tennessee.

Michael Lynch (Abraham Lincoln Library and Museum), received a Capital Maintenance and Improvements Grant from the Tennessee State Museum.

Kathleen Thomas (CVM) received a grant from Two Mauds, Inc.

William Muir (CVM) received a grant from the Fédération Équestre Internationale for “Volume Kinetic Modeling in Conscious Healthy Horses.”

Michelle Walker (CDM), received a grant from DentaQuest.

The **Students in Animal Veterinary Medicine Association Club** (CVM) received a SAVMA grant.

Patrick Wensink (Arts and Sciences) received an Appalachian College Association Summer Faculty Fellowship



Recent Award Submissions

Melinda Turner (Women of Service) submitted an application to Swipe Out Hunger.

Rachel Motes (Carnegie Vincent Library), submitted “Enhancing the Digital Collections of the University Archives and Special Collections” to the state of Tennessee.

Lucinda Dixon (CVM), submitted “Validation of soft embalmed models for teaching students to assess canine cranial cruciate ligament stability” to the Southeast Veterinary Education Consortium.

William Muir (CVM) submitted “Volume Kinetic Modeling in Conscious Healthy Horses” to the Fédération Équestre Internationale.

Matthew Kolp, Lauren Wisnieski, Karen Gruszynski, and Gary Vroegindewey (CVM) submitted “Estimation of veterinary workforce deficits and downstream effects through the creation of an interactive, data-driven dashboard for Appalachian states” through , USDA-NIFA.

Michael Lynch (Abraham Lincoln Library and Museum) submitted “Capital Maintenance and Improvements Grant for FY 23-24” to the Tennessee State Museum.

Jody Goins (on behalf of JFWA) submitted a Non-Public Schools Security Grant application to the state of Tennessee.

Lauren Jolly (CVM) submitted an Animal Health and Disease Research Program grant application to USDA-NIFA.

Lauren Jolly (CVM), submitted an application for the Boehringer Ingelheim Veterinary Scholars Program.

Patrick Wensink (A&S) submitted an application to the Appalachian College Association for a Summer Research Fellowship

Natalie Freeman and **Amanda McCoy** (DCOM), submitted an application for “Improving Healthy Movement Through Implementing a Walking Program for parents and Children in the Nourish Kids Club at the Grow Oak Ridge Farmers Market” to WalMart.



Recent Award Submissions

Melinda Turner (Women of Service) submitted an application to Swipe Out Hunger.

Rachel Motes (Carnegie Vincent Library), submitted “Enhancing the Digital Collections of the University Archives and Special Collections” to the state of Tennessee.

Grace Mahieu (AITG) submitted an application for “Music to Fill the Gap: An Elementary Pilot Program to Celebrate the Historic and Emerging Choral Traditions of Appalachia” to Chorus America.

Jody Goins (on behalf of LMU) submitted an application for a Campus Safety Grant from the state of Tennessee.

Julie Hall (Math and Sciences) submitted a subaward application with the US Coast Guard Academy to the National Science Foundation.

Elizabeth Schmidt (DCOM) submitted “Development of the Games to Advance Interpersonal Negotiation Skills for Autistic Adults,” to the National Institute on Disability, Independent Living, and Rehabilitation Research.

Updates to the ORGSP website:

- New: Material Transfer Agreement Forms
- New: Export Control Questionnaire
- New: Grant Brainstorming Worksheet
- New: Subrecipient Commitment Form
- Updated: Incentive Pay Plan Application
- Updated: FIN 20.1 Financial Management of Federal Grant Funds Policy
- Updated: FIN 20.2 Cost Principles Policy
- New: Professional Development and Information Sessions Calendar



Grants

OFFICE OF RESEARCH, GRANTS AND SPONSORED PROJECTS

Natalie Sweet
Executive Director, ORGSP
Grant Lee 107
natalie.sweet@lmunet.edu
(423)-869-6607

Emily Gambrel
Post-Awards Manager
Grant Lee 108
emily.francis@lmunet.edu
(423)-869-6285

ORGSP COMMITTEES

Institutional Review Board (IRB)

Oversight on all research proposals and projects involving human subjects.
irb@lmunet.edu

Institutional Animal Care and Use Committee (IACUC)

Oversight on all research proposals and projects involving animals
iacuc@lmunet.edu

Institutional Biological and Chemical Safety Committee (IBCSC)

Oversight on research involving biological materials and chemicals
ibcsc@lmunet.edu

Committee on Scholarly Activity (COSA)

To promote scholarly activity and research at LMU.

www.lmunet.edu/orgsp

If your grant award, application, presentation, or publication has not been mentioned in this edition, please forward your information to us using the contact information listed above. We would love to showcase your accomplishments!