

VOL 9.1

ORGSP Quarterly

An ORGSP Newsletter from
Lincoln Memorial University

Opportunities

Awards

Spotlights

WINTER 2024

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

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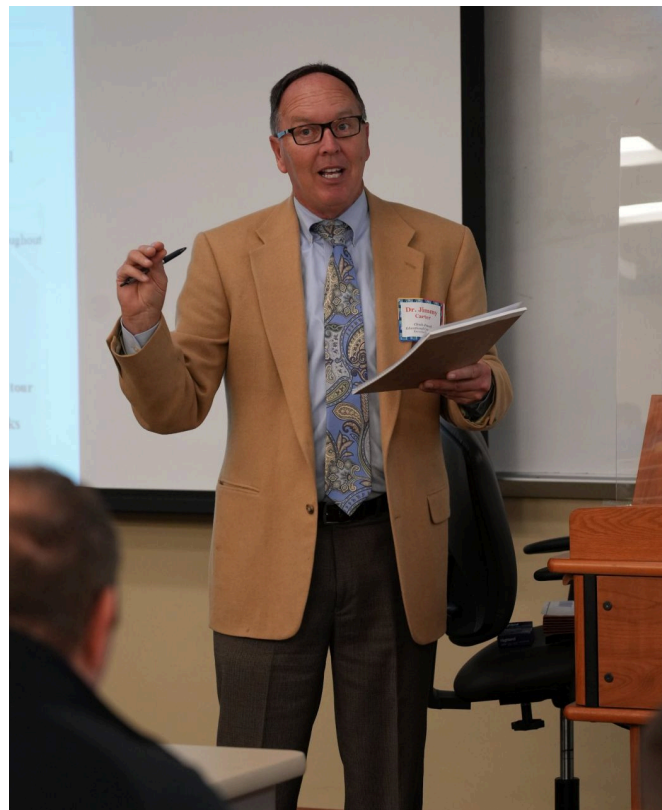
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LMU Hosts the TCHC

LMU's Honors Program hosted the 2024 Tennessee Collegiate Honors Council conference on February 9-10, 2024

LMU was proud to host the recent 2024 Tennessee Collegiate Honors Council at the Richard A. Gillespie College of Veterinary Medicine in February. LMU Honors Students, under the direction of current TCHC President Dr. Sandra Weems, both organized the conference as well as showcased their research efforts in the sciences, art, and humanities. Nearly 100 participants from across the state were in attendance.

Dr. Monika G. Pretz served as the 2024 Keynote Speaker. Dr. Pretz holds her Ph.D. from the University of Goningen in the Netherlands, and she worked as a postdoctoral researcher at the Hungarian Academy of Science in Budapest, Hungary, and at Washington University in St. Louis, Missouri. Dr. Pretz's talk focused on her research and the gathered body's work on conservation efforts. She encouraged the body to continue their efforts, as well as praised the year's essay contest on Tennessee conservation.



On Friday night, TCHC members gathered for an opening reception at the Abraham Lincoln Library and Museum. On Saturday morning, the day opened with poster and oral presentations.



Fulbright Awards: Building Prestige & International Experience Into Your Resume

Are you a Junior, Senior, or Graduate Student thinking about the next steps of your professional development? The prestigious Fulbright U.S. Student Program expands perspectives through academic and professional advancement and cross-cultural dialogue. In partnership with more than 140 countries worldwide, the Fulbright U.S. Student Program offers unparalleled opportunities in all academic disciplines to passionate and accomplished graduating college seniors, graduate students, and young professionals from all backgrounds. Program participants pursue graduate study, conduct research, or teach English abroad.

You can learn more about this exciting program, possible avenues of application, and how ORGSP can help you prepare your exploration at a special workshop on April 16, 2024 at Grant Lee, or by tuning in to the live Zoom. Come away from the session with a list of avenues for application, next steps, and helpful contacts.

Contact Natalie Sweet at natalie.sweet@lmunet.edu for more information, or visit the ORGSP website at lmunet.edu/orgsp/fulbright-program or visit us.fulbrightonline.org.



Zotero for Researchers

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

What is Zotero?

Zotero is a free, open-source reference management software designed by scholars, for scholars. Initially developed in 2006 by the Center for History and New Media at George Mason University, Zotero is now used by researchers across disciplines.

When attempting to organize research data and sources, Zotero can be helpful in five specific ways:

- 1.) Integration:** Zotero can capture a scholarly article, a book chapter, or a webpage relevant to your research and organize it with a single click.
- 2.) Centralized Library:** The software enables you to build a personal library of references – articles, books, videos, and more – complete with metadata such as author names, publication dates, and abstracts.
- 3.) Citation Management:** Zotero generates citations instantly and automatically formats bibliographies to your preferred style.
- 4.) Collaboration:** Group libraries allow multiple

researchers can contribute and collectively manage references.

- 5.) Accessibility:** Zotero can sync your library across multiple platforms.

Access Zotero

[zotero.org](https://www.zotero.org)

Where to Start?

Access the Quick Start Guide at https://www.zotero.org/support/quick_start_guide



Scholarship from the Dental Medical School

Publications:

Marumo, T., Maduka, C.V., Ural, **Apu, E.H.** et al. Flavinated SDHA underlies the change in intrinsic optical properties of oral cancers. *Commun Biol* 6, 1134 (2023). <https://doi.org/10.1038/s42003-023-05510-w>

Scholarship from the Richard A. Gillespie College of Veterinary Medicine

Presentations

Gary Vroegindewey, World Organization for Animal Health, Workshop on Disaster Management and Risk Reduction, Lisbon, Portugal.

Collaborative Scholarship

Publications:

B.N. Walters, L.S.E. Brandt, S.C. Kunigelis. (2024). Exploring sensory fiber composition in the lateral and medial roots of the median nerve. *Translational Research in Anatomy*, Vol 35. <https://doi.org/10.1016/j.tria.2024.100288>.

Jason McConnell and **Kelsey Metz.** (2024). Finding fulfillment: An examination of the fulfillment of Maslow's Needs among traditional, remote, and hybrid-setting employees. *The American Journal of Management*, Vol. 24 No.1.

Scholarship from Administrative Staff

Presentations

Natalie Sweet presented "The Road to Funded: A Beginner's Guide to Seeking and Applying for Grants," as a part of the Appalachian College Association's National Science Foundation ADVANCE Partnership.



Scholarship from the DeBusk College of Osteopathic Medicine

Publications:

Arias, A. v, Lintner-Rivera, M., Shafi, N. I., Abbas, Q., Abdelhafeez, A. H., Ali, M., Ammar, H., **Anwar, A. I.**, Appiah, J. A., Attebery, J. E., Villalobos, W. E. D., Ferreira, D., González-Dambrauskas, S., Habib, M. I., Lee, J. H., Kissoon, N., Tekleab, A. M., Molyneux, E. M., Morrow, B. M., Agulnik, A. "A Research Definition and Framework for Acute Paediatric Critical Illness Across Resource-Variable Settings: A Modified Delphi Consensus." *The Lancet Global Health*, 0(0). [https://doi.org/10.1016/S2214-109X\(23\)00537-5](https://doi.org/10.1016/S2214-109X(23)00537-5). January 5, 2024.

Butler, J. J., **Hartman, H.**, Rettig, S., Konar, K., Randall, G., Samsonov, A. P., & Kennedy, J. G. (Student did not affiliate with LMU DCOM) "Similar Outcomes Following Scarf-Akin Osteotomy Compared to Scarf-Alone Osteotomy for the Treatment of Hallux Valgus: A Systematic Review and Meta-Analysis. *Foot and Ankle Surgery*. <https://doi.org/10.1016/J.FAS.2024.01.003> January 11, 2024.

Abdul-Rahman, T., Awuah, W. A., Mikhailova, T., Kalmanovich, J., Mehta, A., Ng, J. C., Coghlan, M. A., Zivcevska, M., Tedeschi, A. J., de Oliveira, E. C., **Kumar, A.**, Cantu-Herrera, E., Lyndin, M., Sikora, K., Alexiou, A., Bilgrami, A. L., Al-Ghamdi, K. M., Perveen, A., Papadakis, M., & Ashraf, G. M. "Antioxidant, Anti-Inflammatory, and Epigenetic Potential of Curcumin in Alzheimer's disease. *BioFactors*, 14, 15. <https://doi.org/10.1002/BIOF.2039> January 16, 2024.

Bunstine, J. L., Yang, J., Kistamgari, S., Collins, C. L., & Smith, G. A. "Differences in Overuse Injuries in Gender-Comparable Sports: A Nationally Representative Sample of High School Athletes. *Journal of Athletic Training*." <https://doi.org/10.4085/1062-6050-0040.23> January 20, 2024.

Cuadra, G., Burden, D., Christian, N., Emam, A., **Brenk, A., Sperber, S., Kalu, M.** and **Palazzolo, D.** "Microbiological Effects of Flavored E-Liquids on Oral Biofilms." In review

Walters, B. N., Brandt, L. S. E., & Kunigelis, S. C. "Exploring Sensory Fiber Composition in the Lateral and Medial Roots of the Median Nerve. *Translational Research in Anatomy*, 100288. <https://doi.org/10.1016/J.TRIA.2024.100288> January 22, 2024.

Butler, J.J., Shukhmakher, E., **Hartman, H.**, and Kennedy, J.G. "Talar and Fibular Histiocytic-Driven Massive Expansile Osteolysis following Polyetheretherketone Interference Screw Implantation: A Case Report." *Journal of ISAKOS*. <https://doi.org/10.1016/J.JISAKO.2024.01.009>. January 23, 2024.



Scholarship from the DeBusk College of Osteopathic Medicine

Publications (continued):

Slater, K. N., Nessel, T., Kartono, F. "Toxic Erythema of Chemotherapy, Vasculitic Eruption With Malignant Intertrigo Characteristics, and Superimposed Infection Post-bevacizumab Initiation." *Cureus*, 16(1). <https://doi.org/10.7759/CUREUS.52816>. January 23, 2024.

Ngo, W., Craddock, G., Frangenberg, A., Park, A., & Basu, N. "Tibial Plateau Fracture with Use of Tibia Strut and Bone Filler in a 37-Year-Old Male: A Case Report." <https://doi.org/10.7759/CUREUS.52913> January 25, 2024

Alhatou, M., Joudeh, A. I., Alhatou, A., & Ghamoodi, M. "Neurobrucellosis Complicated by Primary Pyogenic Ventriculitis: A Case Report." *Oxford Medical Case Reports*, 2024(1), 28–30. <https://doi.org/10.1093/OMCR/OMAD149> January 27, 2024.

Oye, H., and Abbas, N. "Transcarotid Artery Revascularization (TCAR): The Best Surgical Intervention Option in an Unusual Presentation of Carotid Dissection in a 37-Year-Old Pregnant Female." <https://doi.org/10.7759/cureus.54600> February 21, 2024.

Faulkner, R., Rangel, T., Penders, R. A., Saul, T., Bindler, R., **Miller, L.**, & Wilson, M. (2024). Differences in Nutritional Profile by Chronotype Among 12-h Day Shift and Night Shift Nurses." *Chronobiology International*, 41(1). <https://doi.org/10.1080/07420528.2023.2294036>. February 2024.

Zeller, A. M., Lear, A., Post, E., McNulty, S., & Bentley, B. (2024). A National Survey on the Relationship of Youth Sport Specialization Behaviors to Self-Reported Anxiety and Depression in Youth Softball Players. <https://doi.org/10.1177/19417381241228539>. <https://doi.org/10.1177/19417381241228539>. February 12, 2024.

Posters and Presentations

Hartman, H. and Gianakos, A. "Arthroscopic Management of Talus Fracture: A Review of the Clinical Outcome and Surgical Technique." *AOFAS*. January 25-28, 2024.

Babos, M.B. "Integrative Medicine in Pharmacy Practice." University of Maryland School of Pharmacy. January 2024.

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Scholarship from the DeBusk College of Osteopathic Medicine

Posters and Presentations

Martin, B. and Lawson, C. "Benign Pneumatosis Intestinalis seen in a Patient on SGLT2 Inhibitors." Southeastern Surgical Congress. February 3-6, 2024.

Proffitt, G., Little, J., Hovell, M., Blake, K., Nodit, L., and Vaghaiwalla, T. "A Case of an Adrenal Abnormaloma." Southeastern Surgical Congress. February 3-6, 2024.

Miller, L., Park, R., Crooks, E., Pavlenko, C., Danielson, L., Green, W., Wambold, L., Hicks, S., Weeks, D. "Influence on Sleep Apnea on Pain Intensity, Pain Interference, and Aerobic Capacity Post Cardiac Event." American Physical Therapy Association Combined Sections Meeting. February 16, 2024.

League, M. and Thomas, J. "Lemon Drop: Frozen Lemonade Induced Vasovagal Syncope in SCI Patient." Association of Academic Physiatrists: Physiatry 2024. February 20-24, 2024.

Fox, C. and McGrew, L. "Enhancing the Well-being of Rural Appalachian Seniors: Exploring the Impact of Group Dance Classes on Physical Activity Awareness and Preferences." Association of Academic Physiatrists: Physiatry 2024. February 20-24, 2024.

Campbell, H., Tsai, T. and John, A. "Dystonia Defeated: Conquering Refractory Pediatric Status Dystonicus with Deep Brain Stimulation." Association of Academic Physiatrists: Physiatry 2024. February 20-24, 2024.

Chang, R., and Ivey, K. "A Rare Case of Typhoid Fever Presenting at a North Alabama Hospital." Southern Regional Meetings 2024. February 22-24, 2024

Gritton, C., Kolatorowicz, A., Chesnut, J. and **Harper, A.** "Visuospatial Ability, Psychomotor Ability, and Educational Outcomes of Ultrasound Training in Conjunction with Medical Gross Anatomy: A Randomized Controlled Trial in First Year Osteopathic Medical Students." Anatomy Connected. March 22-25, 2023.



Recent Grant Awards

Patrick Wensink (A&S) received an Appalachian College Association Summer Faculty Fellowship.

Natalie Sweet (ORGSP) received an Appalachian College Association stipend award.

Jody Goins (Executive VP for Administration) received a State of Tennessee Higher Education Safety Grant for Lincoln Memorial University.

Cynthia Dixon and **Robert Hunt** (CVM) received an Southeast Veterinary Consortium grant.

Austin Thomas and **Stephanie Mullins** (DCOM) received an AMA Section Involvement Grant from the American Medical Association.

Caitlyn Simtion and **Stephanie Mullins** (DCOM) received a Student Osteopathic Medical Association Foundation Grant.

Ryan Overton received a Congressionally Identified Project Award, to be administered by the National Institute of Standards Technology,

Recent Award Submissions

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

Lindsey Miller (DCOM) submitted “Dietary Intervention to Improve Continuous Glucose Measures in Night Shift Nurses” to the Allen Foundation.

Zachary Greene (CVM), submitted a RAPS Application for the Mountain Fiesta to the Tennessee Arts Commission

Natalie Freeman and **Anne Marie Zeller** (DCOM), submitted “Correlation Between Visual Spatial Intelligence and Palpatory Ability Using 3D Printed Models” to AACOM.

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Recent Award Submissions (continued)

Erick Moberg and **Brett Thompson** (DCOM) submitted a Mayo Clinic Visiting Researcher Application to the Charles Koch Foundation,

Stan Kunegelis (DCOM), "Transcriptome Project" to the Walmart Community Fund.

Jenna Aungst and **Brett Thompson** (DCOM), College of American Pathologists, "Interdisciplinary Forensic Pathology Workshop"

Jenna Aungst and **Brett Thompson** (DCOM), Student Osteopathic Medical Association, "Interdisciplinary Forensic Pathology Workshop"

Erin Achauer and **Abigail Heiniger** (A&S), Appalachian College Association Ledford Scholars Program, "Contemporary Folklore and Art in the Age of the Internet."

Terri Hamilton and **Abigail Heiniger** (A&S), Appalachian College Association Ledford Scholars Program, "Appalachian Women: Folklore, Superstition, and Tradition."

Natalie Mueller and **Tracy Mims** (A&S), Appalachian College Association Ledford Scholars Program, "The Relationship Between Predisposed Traumatic Factors and Post Traumatic Stress Disorder in Veterans' Post-Service."

Katilee Croft and **Whitney Kistler** (M&S), Appalachian College Association Ledford Scholars Program, "Developing Environmental DNA Protocol to Detect Populations of the Wehrle's Salamander (*Plethodon wehrlei*)."

Hannah Cure and **Thomas Shell** (M&S), Appalachian College Association Ledford Scholars Program, "Synthesis and Physiochemical properties of Acetametophin Derivatives."

Christian Piercy (M&S), **Stan Kunegelis** (DCOM), and Sandra Weems (A&S), Appalachian College Association Ledford Scholars Program, "Detection of Wnt and β -catenin Proteins in Labidocera Copepods."



Recent Award Submissions (continued)

Spencer Baldwin and **Barbara Shock** (M&S), Appalachian College Association Ledford Scholars Program, "Development and eDNA testing of a Presence-Only Prediction Model of *Morchella diminutiva* Distribution."

Robin Johnson (Security) applied for 2024-2025 Tennessee Highway and Safety Office grant.

Updates to the ORGSP website:

- [Student Research Opportunities Page](#)
- [Funding Resources Page](#)
- [Research Day Page](#)
- [Blude Ridge Undergraduate Conference Page](#)
- [Professional Development and Information Sessions Page](#)
- [Institutional Review Page](#)

Attention!

All IRB, IACUC, and IBSCS protocols should now be submitted through Sitero Mentor, located on your myLMU page under "Quick Links" or at the ORGSP webpage at www.lmunet.edu/orgsp under the appropriate committee.

You may be asked to enter your myLMU login information again. You may be asked for the institution ID. If so, enter "Imunet". If you don't have the Sitero Mentor link, please contact the IS helpdesk at ishelpdesk@lmunet.edu or x7411.



Grants

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Institutional Biological and Chemical Safety Committee (IBCSC)

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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!