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Office of Research, Grants and Sponsored Programs Newsletter, Winter 2021

Lincoln Memorial University, Office of Research, Grants, and Sponsored Programs

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News from the College of Veterinary Medicine

Lincoln Memorial University-College of Veterinary Medicine (LMU-CVM) hosted the 2020 Center for Animal and Human Health in Appalachia (CAHA) Conference virtually on Oct. 30, 2020 via Zoom Webinar. This was the sixth conference held by LMU-CVM and its timely focus was on significant impacts of the COVID-19 pandemic on human and animal health issues in the United States.

Dr. Gerald W. Parker, Jr., the associate dean for Global One Health and director of the Pandemic and Biosecurity Policy Program at Texas A&M University served as the keynote speaker. Dr. Megin Nichols, the Enteric Zoonoses Activity Lead at the Centers for Disease Control and Prevention (CDC), and Mary Pomeroy, an epidemiologist at CDC working within the COVID-19 response in the Food Systems Working Group, presented on COVID-19 and the U.S. Food Supply. Dr. Mary-Margaret Fill, a medical epidemiologist for the Tennessee Department of Health, discussed regional COVID-19 issues and Dr. Apryle Horbal, president of VetNow, and Dr. Gil Patterson, chief medical officer for VetNow, spoke on telemedicine and telehealth issues as it relates to COVID-19.

“We remain steadfast in our mission of not only serving and supporting Appalachia, but enhancing it in terms of physical, mental, and environmental health and the annual CAHA conference brings together students across medical programs to discuss One Health issues,” said Dr. Donald L. Noah, executive director for CAHA. “As we navigate through a global pandemic, it is important to keep the conversations about human and animal health issues at the forefront of the discussion.”

One Health is a global initiative that encourages collaboration among all health disciplines with the goal of attaining optimal health for people, animals and the environment. This event brings together One Health experts from the region and across the nation as well as students from a variety of LMU’s health care programs to discuss how veterinarians, doctors, nurses, physician assistants and other medical professionals, environmentalists, epidemiologists and many others can work together to solve global health problems. The event is organized annually by the Center for Animal and Human Health in Appalachia (CAHA) whose mission is to improve animal health and public health in the Appalachian region. Whether students plan to be veterinarians, public health nurses, environmental specialists or physicians, they will play an integral role in developing the future of global health care.

News from the College of Veterinary Medicine, cont.

LMU-CVM was recently recognized by the World Organization for Animal Health (OIE) Collaborating Centre Network for Veterinary Emergencies (EmVetNet), for its contributions to the Global Thematic Platform on Animal Welfare activities during the COVID-19 global pandemic.

https://www.lmunet.edu/news/cvm/oie_research.php

Publications:

Wood, P. L. (2020). Fatty Acyl Esters of Hydroxy Fatty Acid (FAHFA) Lipid Families. *Metabolites*, 10(12), 512.

Fogelberg, K., Simons, M. and Anderson, S. (2020). Qualitative Analysis of Student Responses to Survey Questions Investigating Student Perceptions of Case-Based Learning. *Education in the Health Professions*. (in press)

Hunt, J. A., Schmidt, P., Perkins, J., Newton, G., & Anderson, S. L. (2020). Comparison of Three Canine Models for Teaching Veterinary Dental Cleaning. *Journal of Veterinary Medical Education*, e20200001.

<https://jvme.utpjournals.press/doi/10.3138/jvme-2020-0001>

Henderson, A.L., Pierce, B. J. (2020). Puppy Neural Development and Conditioning. *Veterinary Focus*. https://vetfocus.royalcanin.com/en/doc-475.html?utm_medium=newsletter&utm_source=en&utm_campaign=doc-475&utm_content=2442866-H0p3vHpnhmvxUvN

Muro, Noelle; Gilley, Robert; Kemper, Andrew; Benitez, Marian; Barry, Sabrina; McNally, Craig (2021). Stiffness of a Type II External Skeletal Fixator and Locking Compression Plate in a Fracture Gap Model. *Veterinary Surgery*. Accepted.

Wisnieski, L., Amrine, D., Cernicchiaro, N., Sanderson, M., and Renter, D. (2020). Weather conditions associated with bovine respiratory disease mortality in male auction market-derived beef calves. *American Journal of Veterinary Research*. [In press].

Paul L. Wood, William Muir, Undine Christmann, Philippa Gibbons, Courtney L. Hancock, Cathleen M. Poole, Audrey L. Emery, Jesse R. Poovey, Casey Hagg, Jon J. Scarborough, Jordon S. Christopher, Alexander T. Dixon, Dustin J. Craney. (2020). Lipidomics of chicken egg yolk: High resolution mass spectrometric characterization of nutritional lipid families. *Poultry Science*. <https://www.sciencedirect.com/science/article/pii/S0032579120308671>

J. Gibbons, P. Gibbons, and L. Miller. (2020). Didactic Assisted Reproductive Techniques Experiences for Veterinary Students at Lincoln Memorial University. *American Embryo Transfer Association Newsletter*. <https://www.aeta.org/newsletter/?p=2394>

News from the College of Veterinary Medicine, cont.

Vanithamani S., Akino Mercy C.S., Kanagavel M., Sumaiya K., Bothammal P., Saranya P., Prasad M., Ponmurugan K., Muralitharan G., Al-Dhabi N.A., Verma A., Vijayachari P., Natarajaseenivasan K., Biochemical analysis of leptospiral LPS explained the difference between pathogenic and non-pathogenic serogroups, *Microbial Pathogenesis* (2021), doi: <https://doi.org/10.1016/j.micpath.2021.104738>.

Daly, A., Deible, C., Lamb, C., Santacaterina, S., Marzolf, N., Page, A., Horohov, D., Wood, P., Werre, S., Chapman, S., Christmann, U. Surfactant protein D concentrations in serum and bronchoalveolar lavage fluid from young healthy horses housed on pasture or in a barn environment. *American Journal of Veterinary Research*, 2021, 82:2, 152-157. <https://doi.org/10.2460/ajvr.82.2.152>

Muro, N. M., Gilley, R. S., Kemper, A. R., Benitez, M. E., Barry, S. L., & McNally, C. Stiffness of a type II external skeletal fixator and locking compression plate in a fracture gap model. *Veterinary Surgery*. <https://onlinelibrary.wiley.com/doi/full/10.1111/vsu.13563>

Wood, P. L. (2020). Fatty Acyl Esters of Hydroxy Fatty Acid (FAHFA) Lipid Families. *Metabolites* <https://doi.org/10.3390/metabo10120512>

Fogelberg, K., Simons, M. and Anderson, S. (2020). Qualitative Analysis of Student Responses to Survey Questions Investigating Student Perceptions of Case-Based Learning. *Education in the Health Professions*. (in press)

LMU-CVM students, Dalena Hobbs & Taylor Mittleider, presented their virtual poster, recorded audio, and Q&A presentations at the International Embryo Technology Society which was originally scheduled to be held in Lima, Peru (January 18-21, 2021).

An article discussing research on admission challenges conducted by LMU for Banfield can be found [here](#) on the JAVMA website. The Banfield research mentioned in the above article can be found [here](#).

B. Price, T. Mittleider, S. Collins, P. Gibbons, and J. Gibbons. (2020). Out of Season Artificial Insemination and Embryo Transfer Results in Ewes: A Field Trial. *American Embryo Transfer Association Newsletter*. <https://www.aeta.org/newsletter/?p=2387>

News from the College of Veterinary Medicine, cont.

Herd, T., Wisnieski, L., and Buschweitz, J. (2020). Random-effects linear model application to herd-level assessment of bovine hepatic trace mineral concentrations. *Journal of Veterinary Diagnostic Investigation*. [In press].

Christmann, U. (2020). Best practices in veterinary personal protective equipment. *Revue Scientifique et Technique de l'OIE*, 39(2), 561–577.
<https://doi.org/10.20506/rst.39.2.3107>

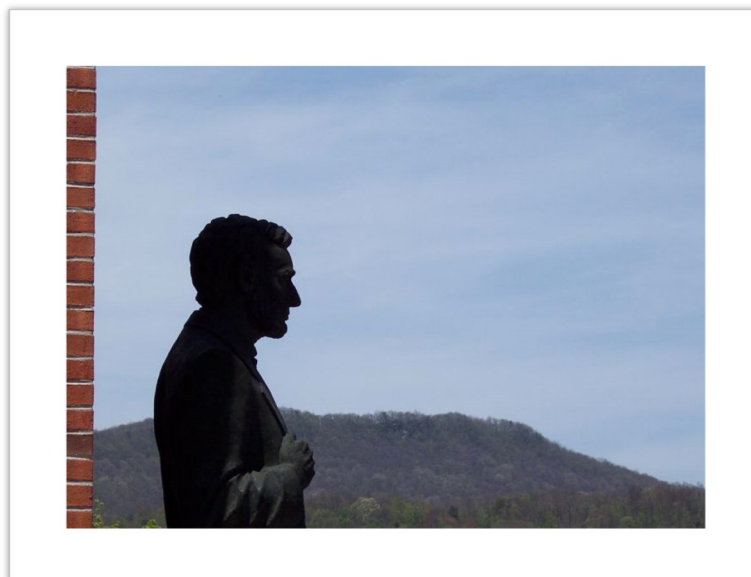
DeBriyne N., Dalla Villa P., Golab G., Gruszynski K., Pawlowski E., Hammond-Seaman A., Moody S., Noga Z., Ramos M., Simmons H., Tickel J., Vroegindewey G. Overcoming the Impact of COVID-19 on Animal Welfare: COVID-19 Thematic Platform on Animal Welfare. *OIE Bulletin*.
<https://oiebulletin.com/?p=15661>

Evans K. and Vroegindewey G. Technological Disasters and Veterinary Services. *OIE Bulletin*. <https://doi.org/10.20506/rst.39.2.3095>

Vroegindewey, G. and Kertis, K. Veterinary Services: health, safety and wellness for veterinary professionals in disaster preparedness and response. *OIE Bulletin*. <https://doi.org/10.20506/rst.39.2.3111>

Grants:

Dr. Micha Simons was awarded the AVMA Veterinary Educator Professional Development Grant for her project entitled "Diversity, Equity, and Inclusion (DEI) Matters - The Launch of Faculty & Staff DEI Training at LMU CVM"



Dr. Clyde Ray

Participated in a panel on free speech and the First Amendment at LMU, October 26, 2020. Authored a book review on Matthew Slaboch's *A Road to Nowhere: The Idea of Progress and its Critics* in Comparative Political Theory.

Social Science Review on C. Bradley Thompson's recent *America's Revolutionary Mind: A Moral History of the American Revolution and the Declaration That Defined It*.

Article on the use of active learning strategies in political theory courses under review at the *Journal of Political Science Education*.

Writing a book manuscript on the concept of judicial statesmanship, which builds on earlier work on Chief Justice John Marshall and the idea of political leadership.

Teaching a senior seminar on comparative constitutional design this spring and hope that might be a source of co-authorship with students, as we consider and compare different constitutional and electoral systems against our own.

Dr. Kevin Jennings

Jennings, K. (2020). Chapter 6: Equipment. In *The Management of Police Specialized Tactical Units* by Tomas Mijares and Ronald McCarthy. Charles C. Thomas Publisher, Ltd.

Conference Presentations:

Jennings, K. (October 2020). Open Source Digital Forensics Tools. Presented at the International Integrated Research Conference, Manilla, The Philippines (Online)

Jennings, K. (September 2020). The Fundamentals of Computer Crime and Digital Forensics. Online Training for Criminology Academics. Manila, The Philippines (online)

Dr. Mollie Carter

Lecture: Self-care, LMU Baptist Collegiate Ministry. *Jesus's example of Self-Care in Matthew 14*. October 2020.

Presenting with Colleagues Rebecca Carmack-Lawson and Luke Walden. The presentation comes from data we collected on a clinical trial where I was a therapist. We implemented a harm reduction model of substance abuse treatment with adolescents and found that the treatment model also decreased client's instances of truancy and disciplinary action in school.

Walden, L., Carter, M. D. K., & Carmack, R. (2021). Harm Reducing A-CRA Implementation Decreases Truancy and Disciplinary Action. Paper accepted for presentation at National Association of School Psychologists Conference. Virtual: February 2021.

Dr. Anita Black

Black, J. A. (2020). Jeremy Bentham, In *Criminal Justice in America: The Encyclopedia of Crime, Law Enforcement, Courts, and Corrections*. ABC & CLIO, Vol <https://products.abc-clio.com/ABC-CLIOCorporate/product.aspx?pc=A5701C> (Publication date November 2020)

Comparing College Students' Definitions of Date Rape and Sexual Consent with Tennessee's Legal Definitions. The purpose of this research is to determine exactly how undergraduate college students define sexual consent and sexual assault. Their definitions will be compared to the legal definition in Tennessee. Samples are collected from LMU, UT and ETSU.

Dr. Maryann Thrush

Book Review

Zaleski, K., Enrile, A., Weiss, E.L., Wang, X. (Eds.). (2020). *Women's Journey to Empowerment in the 21st Century: A Transnational Feminist Analysis of Women's Lives in Modern Times*. New York City, NY: Oxford University Press.

Dr. Ann-Marie Buchanan and Dr. Oliver J. Davis' presentation to NACSW in November 2020: Our faith is the lens that we use to assess the political actions which we are looking to defend or to change. Jesus taught us how to look through the eyes of our neighbors as we make our daily "political" decisions which relate to our interactions and policies toward those who are our neighbors. By integrating faith and social work practice in the political arena, the focus on promoting the betterment of our neighbors' lives is of utmost importance.

Dr. Kay Paris

Presentation: Aire, A.; Miksa, P.; Paris, K.; Kiser, K.; Savage, J.; Harper-Hannigan, K.; Buchanan, J.; Jimenez, S.; DeFranco, G.; Noe, S. *Asynchronous Modules and Live Patient Simulation to Teach Social Determinants of Health Outcomes*. National Center for Interprofessional Education (NCIPE) Nexus Summit 2020, online August 20, 2020.

Poster: Maska, P.; Kaiser, K.; Paris, K.; Savage, J.; DeFranco, G.; Harper-Hannigan, K.; Yost, T.; Buchanan, J.; Jimenez, S.; Noe, S.; Airee, A. *Interprofessional Education Pilot Project on Social Determinants of Health – Tennessee Interprofessional Practice and Education Consortium (TIPEC) Conference 2020*, online July 31, 2020.

Dr. Tom Bragg

"Emma Robinson." Peer-reviewed article, Palgrave Women Writers anthology.

Ed., Lesa Scholl. Forthcoming. (provides an overview of Emma Robinson's life and career, a novelist and playwright of the mid-Victorian period)

Dr. Rebecca Brackmann

"Medievalism, Medicine, and William Somner's *Dictionarium Saxonico-Latino-Anglicum*." Festschrift in honor of Charles D. Wright. ARC Humanities Press. Forthcoming.

External program reviewer for the Humanities and Law program at the John Jay School of Criminal Justice.

Dr. Abigail Heiniger

Fairy Tales from the Margins: Collection of Primary Texts. Volumes 1-4.

Abigail Heiniger, ed. Under contract with Routledge Press. Fall 2021.

The Lost Slipper: Disenchanted Fairy Tales and Colonial Master Narratives 1850 – 1980. Under contract with Wayne State Press. Fall 2023

"The British Empire's Lost Slipper: Dangerous Irish Cinderellas." *Contemporary Fairy Tale Magic*, Lydia Brugué, ed. 2020.

Dr. Jacques Debrot

"Bad Astronauts" accepted for publication by the literary magazine *The Opiate*. sentient chimpanzee, a space station homicide, and a love rivalry--all played out 100 miles above the moon's desolate gray surface.

Patrick Wensink

"Has COVID Killed the Mall Santa?" *American Consequences Magazine*, December 17, 2020 Illuminates a readers understanding of the economic impact of COVID-19 on face-to-face seasonal work.

<https://americanconsequences.com/covid-killed-mall-santa-patrick-wensink/>

Mrs. Natalie Sweet

University of Georgia Press, *Buying and Selling Civil War Memory in Gilded Age America* "Marketing the 'Great Hero:' Duke Cigarette's Short Histories of Civil War Generals' Lives." Link to the upcoming publication: <https://ugapress.org/book/9780820359656/buying-and-selling-civil-war-memory-in-gilded-age-america/>

Dr. Charlie Hubbard

Appalachian College Association Grant; The Generational Struggle of an African American Family Pursuing Freedom and equality in the 19th Century America.

"The Convoluted and Controversial Journey of a Lincoln Statue", *The Lincoln Lore*, Winter 2020.

Dr. Michael Giles Drawing published in *Pigeon Parade Quarterly* Vol. 2, January 2021.

Juried Exhibitions

2019, "Ansiedad y Pertenencia (Anxiety and Belonging): Latinx, Tennessee and the World", Co-curators Dr. Felipe De Oliveira Fiuza and Karlota Contreras-Koterbay, Slocumb Galleries, East Tennessee State University, Johnson City, TN.

Dr. Charlie Gee

"Golden Age, Era of Decline, or Both? Producing Professional Media Changing Times." (2019). Panel session at Broadcast Education Association conference, April 9, Las Vegas, NV.

"Where in the World Would You Like to Teach Journalism?" (2019). Panel session at Broadcast Education Association conference, April 9, Las Vegas, NV.

"The Science of Fake News." (2019). UT Science Forum. University of Tennessee-Knoxville, February 8, Knoxville, TN.

Dr. Sandra Weems

Dr. Weems recently represented LMU's Honors Scholars Program by hosting and moderating a session at the Tennessee Collegiate Honors Council 2021 Conference, held virtually. Five Honors Scholars presented at the conference, along with honors students from 11 other institutions in Tennessee.

Emily Roark presented, "No Child Left Behind (NCLBA) and Every Student Succeeds Act (ESSA): Why They Are Not Entirely Effective

Sara Hopkins presented, "A Brief Overview of the Pathophysiology of Parkinson's Disease"

Jarvis Pennington presented, "Characterization of the Lumbar Arteries in Relationship to Lateral Lumbar Interbody Fusion Surgical Landmarks"

Kurtis Orrson presented, "COVID-19 and the US Stock Market"

Emma Cummings presented, "A Comparative SEM Survey of Microsurgically Manipulated Estuarine Copepods *Labidocera aestiva* and *Acartia tonsa*"

Recent Submissions and Awards

Recent Grant Submissions:

Regina Burns and Bridget Welch submitted a proposal to the William and Helen Thomas Foundation for scholarship support.

The College of Veterinary Medicine submitted a proposal to the U. S. Department of Agriculture, National Institute of Food and Agriculture.

John McCook submitted three proposals to the Department of Education for the Grow Your Own Competitive Grant.

Paul Wood submitted a proposal to the National Institutes of Health (NIH) as a sub-awardee on a grant with Oregon Health & Science University.

Jeff Martin submitted a proposal to Renew Research, LLC.

Jason Fowler submitted a proposal to the National Science Foundation (NSF) as a sub-awardee on a grant with the University of South Carolina, Columbia.

Cathy Eldahan submitted a proposal to the Tennessee Arts Commission.

Whitney Kistler submitted a proposal to the American Honda Foundation.

Lauren Wisnieski submitted a proposal to The Human Animal Bond Research Institute (HABRI).

Seven students, along with their faculty mentors, submitted proposals to the Appalachian College Association for the Ledford Scholars:

Lena Watson, Eli Tate and Jarvis Pennington with faculty mentor Dr. LaRoy Brandt

Evan Collett and Emily Roark with faculty mentor Dr. Barbara Shock

Caitlin Davidson with faculty mentor, Dr. Aggy Vanderpool

Ian Cook with faculty mentor, Dr. Whitney Kistler

Recent Grant Awards:

U. S. Department of Agriculture, National Institute of Food and Agriculture (USDA—NIFA)

U. S. Department of Education, Student Support Services (SSS)

State of Tennessee, High Visibility Grant

Tennessee Department of Education, Grow Your Own Grant for Rural Schools

Tennessee Department of Education, Grow Your Own Grant for Title I Schools

Tennessee Department of Education, Grow Your Own Grant for Urban, Suburban and Rural Schools

Tennessee Arts Commission, COVID-19 Arts Resilience

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Reminder from the LMU Institutional Review Board (IRB)

Please remember that all research proposals and projects involving human subjects, must have IRB approval **prior** to the presentation of any information gathered during the course of the research.

Under federal policy, the IRB cannot grant retroactive IRB approval.

All applications for external funding must first begin by contacting the 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. Thank you!

Institutional Animal and Care Use Committee (IACUC)

All research proposals and projects involving animals must have IACUC approval. Please have protocols submitted at least one week before the next scheduled meeting for committee review. Below is a schedule of upcoming IACUC meetings:

March 9, 2021
April 13, 2021
May 11, 2021
June 8, 2021
July 13, 2021