

## LMU STUDENT SUPPORT SERVICES RECEIVES GRANT

The LMU Student Support Services program has received a five-year federal grant from the U.S. Department of Education with the first year being funded at \$335,106. The purpose of the SSS Program is to provide academic and other support services to low-income, first-generation or disabled college students to increase students' retention and graduation rates. The program also fosters an institutional climate supportive of the success of low-income and first-generation college students and individuals with disabilities. The LMU Student Support Services program has provided valuable services for the students at LMU for many years according to Lila Combs, Director. "The program serves 165 qualified students, who attend the Harrogate campus, by providing study skills, academic advisement, career and personal counseling, tutorial services, assistance in securing admission and financial aid for graduate and professional programs, cultural enrichment activities, mentoring services, and financial literacy skills at no cost to the students. The SSS program is an excellent way for students to receive support services and help them make the transition to college life a successful one," states Combs. For more information concerning the SSS program, you may contact Lila Combs at 423.869.6213.



2020 I'm First Celebration



Aquarium Trip 2019



A Christmas Carol 2019

## News from across campus!

The Appalachian College Association Ledford Scholar Presentations are available to view online. Congratulations to these six students on completing their projects during a challenging time!

<https://acaweb.org/student-scholarships/ledford-scholarships/2020-ledford-scholars-presentations/>



**Bethany Boggs, Lincoln Memorial University:** "Gastrointestinal Parasites of Wildlife in the Cumberland Gap Area" (Mentor: Dr. Barbara Shock)



**Tyler Chitwood, Lincoln Memorial University:** "Evaluation of the Effectiveness of Treatment Techniques for the Invasive Species Mimosa (*Albizia julibrissin*)" (Mentor: Dr. Noel Cawley)



**Emma Cummings, Lincoln Memorial University:** "A Comparative SEM of Micro-Surgically Manipulated Estuarine Copepods *Labidocera aestiva* and *Acartia tonsa*" (Mentor: Dr. Stan Kunigelis)



**Laura Everly, Lincoln Memorial University,** "Chelation Therapy as a Way to Remove Calcium from Arterial Plaques" (Mentor: Dr. Gavin Kirton)



**Amber Philpot, Lincoln Memorial University:** "Prevalence of zoonotic mosquito-borne disease in competent vectors in south-east Kentucky" (Mentor: Dr. Bonnie Price)



**Clayton Stanley, Lincoln Memorial University:** "Monitoring and assessment of juvenile Cumberlandian combshell mussels raised in captivity and released into the Powell River" (Mentor: Dr. Aggy Vanderpool)

## A Note From the Institutional Review Board

### Class Research Assignments Guidelines for Instructors

The Class Exempt Form does not pertain to students conducting research for independent study, theses, dissertations, articles, publications, or presentations outside the research class.

For these exempt class assignments, the instructor serves as the Principal Investigator and the students serve as research assistants.

**Note:** Recruitment of participants outside the research class requires a complete, formal IRB application with either the instructor or student as the Principal Investigator.

The **secondary analysis** of de-identified, non-restricted public data or a data set developed/provided by the instructor, content analysis of articles/published speeches/public web sites (not FB, Twitter, etc.), surveys distributed within the research class, and focus groups within the research class would be covered by this form. **Observation** of public behavior with no interaction or intervention by the researcher would also be covered.

The instructor may choose to have the students complete the IRB application so that he/she can make sure the student understands the process and can spot times when the student is going beyond the limits of this class research exempt status.

## News from the ORGSP

Faculty and staff who are interested in looking for external grant funding can find links for funding opportunities on LMU's website at <https://www.lmunet.edu/orgsp/funding-sources.php>.

Search by discipline or agency to see what funding is available. For more information contact Carolyn Gulley at [carolyn.gulley@lmunet.edu](mailto:carolyn.gulley@lmunet.edu) or 423-869-6291.

<a href="#">Fine Arts</a>	<a href="#">Education</a>
<a href="#">Humanities</a>	<a href="#">International</a>
<a href="#">Sciences</a>	<a href="#">Health Related</a>
<a href="#">Social Sciences</a>	<a href="#">Unrestricted / Other</a>
<a href="#">Federal Register</a>	<a href="#">Minorities / Women</a>

## News from the School of Mathematics and Sciences

Assistant Professor of Biology, Microbiology, Dr. Kathryn Purple, recently had an article published, below is the citation and abstract.

“Retrospective investigation of *Echinococcus canadensis* emergence in translocated elk (*Cervus canadensis*) in Tennessee, USA, and examination of canid definitive hosts”

Dell, B., Newman, S.J., Purple, K. et al. Retrospective investigation of *Echinococcus canadensis* emergence in translocated elk (*Cervus canadensis*) in Tennessee, USA, and examination of canid definitive hosts. *Parasites Vectors* 13, 330 (2020).

<https://doi.org/10.1186/s13071-020-04198-9>

### Abstract

#### Background

Few reports of *Echinococcus* spp. have been described in the USA; however, the geographical distribution of *Echinococcus* spp. in wild hosts is increasing consequent to human activities. In the early 2000's, 253 elk (*Cervus canadensis*) originating from Alberta, Canada were released into the Great Smoky Mountains National Park and North Cumberland Wildlife Management Area in an effort to re-establish their historical range.

#### Methods

We investigated the prevalence of *Echinococcus* spp. in re-established elk populations in the North Cumberland Wildlife Management Area and the Great Smoky Mountains National Park via a retrospective analysis of banked elk tissues and helminth examinations on intestinal contents from coyotes (*Canis latrans*) from the North Cumberland Wildlife Management Area.

#### Results

Four elk were PCR and sequence positive for *E. canadensis*. Each sequence had 98% or greater coverage and identity to multiple *E. canadensis* genotypes on GenBank. Adult *Echinococcus* spp. were not detected in any of the coyotes examined in this study.

#### Conclusions

Continued surveillance of this disease in susceptible species in these areas is warranted, and these data further underscore the risk of zoonotic pathogen introduction secondary to wildlife translocation.

## 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 NIH as a sub-awardee on a grant with Oregon Health & Science University.

### 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

## Contact information for grants:

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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:

November 10, 2020  
December 8, 2020  
January 12, 2021  
February 9, 2021