Recent Presentations


Chen S, Sanderson M, Lanzas C. Modeling temporal patterns of Escherichia coli O157 fecal shedding in cattle. Poster presented at: Epidemics3, 3rd International Conference on Infectious Disease Dynamics; December 2011; Boston, MA.

Craig LE, Reed A. Cartilage lesions of the canine humeral head. Presented at: 62nd Annual Meeting of the American College of Veterinary Pathologists; December 2011; Nashville, TN.

Crews AJ, Newman SJ, Ramsay E. Skin mineralization in naked mole rats. Poster and oral presentation at: American College of Veterinary Pathologists Meeting; December 2011; Nashville, TN.

Dhar M. Stem cells, cloning and regenerative medicine. Invited presentation at: Preprofessional Students’ Conference of Research Workers in Animal Disease Annual Meeting; December 2011; Nashville, TN.


Fernando R, Morel R, Dhar M. The hands-on teaching of dairy research, specifically mastitis diagnosis, treatment, and prevention and important findings related to the over-use of antibiotics in dairy farms and bacteria resistance. In addition, the society recognized his hands-on teaching achievement, at a conference in Minneapolis.

Jankovsky J, Newkirk K, Ilha M, Newman SJ. COX-2 and c-kit expression in canine glomus. Poster presented at: American College of Veterinary Pathologists Meeting; December 2011; Nashville, TN.

Lanzas C. Clostridium difficile transmission dynamics and control at the hospital. Invited presentation at: International Workshop on Antibiotic-resistant Infections: Mathematical Modeling, Transmission Dynamics and Control; December 2011; Miami, FL.


Lanzas C, Dubberke ER, Grönh YT. Modeling the effects of screening and applying contact precautions for asymptomatic Clostridium difficile carriers in health-care settings. Poster presented at: Epidemics3, 3rd International Conference on Infectious Disease Dynamics; December 2011; Boston, MA.


Miller DL. Amphibian diseases and pathology. Presented at: Salamanders and Amphibian Exotics Symposium; January 2012; Knoxville, TN.

Miller DL, Gerhold R. Wildlife neurology. Workshop presented at: Exotics Symposium; January 2012; Knoxville, TN.

Newkirk K, McLean N. Brucella-associated phagocytic uveitis and endophthalmitis in a dog. Ocular Pathology Mystery Slides. Presented at: American College of Veterinary Pathologists Annual Conference; December 2011; Nashville, TN.

Rouse BT. On the good and bad side of host galectin in viral infections. Invited seminar at: Scripps Research Institute; February 2012; La Jolla, CA; at Emory University; January 2012; Atlanta, GA; and at University of California Irvine; February 2012; Irvine, CA.

Tobias KM, van Amstel S. Modified perirenal ureterohydronephrosis in the goat: a case series. Presented at: American College of Veterinary Surgeons Annual Symposium; November 2011; Chicago, IL.

Volkova VN, Lanzas C, Lu Z, Grönh YT. Effect of bacterial antimicrobial treatment on dissemination of plasmid-mediated antimicrobial resistance in enteric commensal bacteria of the host. Poster presented at: Epidemics3, 3rd International Conference on Infectious Disease Dynamics; December 2011; Boston, MA.

Wall J, Martin EB, Richey TA, Stuckey A, Osborne D, Kennel SJ. Stable and rapid binding of 124I-labeled peptide p5 to visceral amyloid in vivo as evidenced by dynamic PET imaging. Poster and oral presentation at: 2011 World Molecular Imaging Congress; September 2011; San Diego, CA.

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Wimalasena J. The BCL2 antagonist BAD is down-regulated in breast cancer and inhibits cancer cell invasion. Poster presented at: 34th Annual San Antonio Breast Cancer Symposium; December 2011; San Antonio, TX.

Roberson (Cherokee) was honored for his dairy research, specifically mastitis diagnosis, treatment, and prevention and important findings related to the over-use of antibiotics in dairy farms and bacteria resistance. In addition, the society recognized his hands-on teaching achievement, at a conference in Minneapolis.

Roberson is an American Indian Science and Engineering Society Professional of the Year.
Brian Research Honored by Pfizer Animal Health

Dr. David Brian, professor in Biomedical and Diagnostic Sciences, was one of the recipients of the 2011 Pfizer Animal Health Award for Research Excellence. The award recognizes researchers whose innovative studies have advanced the scientific understanding of animal health.

Brian’s research focuses on coronavirus, which can cause diseases of the respiratory tract of mammals and birds, including farm animals and pets. The virus’s most obvious clinical manifestation is its association with the common cold and SARS in humans.

When cells are infected with coronavirus, the virus hijacks the cells’ ability to build their own proteins in favor of virus proteins. For years, scientists assumed that this hijacking process involved a “cap” site. This cap is a special tag at the end of an mRNA molecule where the virus enters. However, the coronavirus also seems to have a cap-independent mechanism otherwise known as an internal entry site.

Brian has been working to characterize this entry site and determine if the virus uses the so-called “internal entry sites” between cap-dependent and cap-independent entry. More knowledge of this riboswitch could assist in exploiting the regulation of the riboswitch in coronavirus-infected cells, and thus develop ways to treat diseases caused by the virus in animals and humans alike.

Recent Publications


Bailey MR. Regulation of pancreatic cancer: A review of experimental and cap-independent entry. More knowledge of this riboswitch could assist in exploiting the regulation of the riboswitch in coronavirus-infected cells, and thus develop ways to treat diseases caused by the virus in animals and humans alike.

1) Easy Interpretation of Biostatistics: The Vital Link to Applying Evidence in Medical Decisions by Gail F. Dawson (Elsevier 2008). This 181-page book explains key concepts for practical application. It includes need-to-know information on variables, samples, power, probability, distribution, and bias.

2) Statistical Calculators (http://danielsoper.com/statcalc3/default.aspx). This free, online resource allows the user to perform common statistical tests like ANOVA, and determine probability, sample size, and statistical power. Optional resources are listed in each available category. Thanks to Dr. Merv Souza and Dr. Seung Keck for their recommendations.

CEM Student Marlin Recognized for Imaging Research

Emily Marlin, PhD student in Comparative and Experimental Medicine, was a finalist in the poster session. Walk-through at the 2011 World Molecular Imaging Congress in San Diego, CA. As a finalist, she gave a brief presentation about the research to judges and well-known experts in the field.

Marlin’s mentor, Dr. Jonathan Wall from the UT Graduate School of Medicine, was also an author on the poster, entitled “Stable and rapid binding of 124-labeled peptide p5 to viscerovascular in vivo as evidenced by dynamic PET imaging.” Full details are available in the “Presentations” section of this newsletter.

Submitting a Grant? Negotiating a Contract?

As always, all grants and contracts MUST go through the Office of Research (Tammy Berry) for approval. UT and UTCVM policy prohibits clients from submitting such proposals/agreements on their own. These documents actually represent agreements between the university and the external entity, which cannot be made by individual faculty or staff members.

Grant proposals must be received by the Office of Research for review at least 5 days before the due date, according to previously published requirements posted at http://www.wet.utk.edu/grants.

UTCVM Investigators Bring in $730,699 for Recent Sponsored Projects

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<td>Winn Feline Foundation</td>
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Discovery: Research at the University of Tennessee College of Veterinary Medicine (2012) 7.1
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Recent Publications


Al-Wadei HA, Al-Wadei MH, Schuller HM. Pancreatic cancer cells and normal pancreatic duct epithelial cells express an autocrine catecholamine loop that Pancreatic cancer cells and normal pancreatic duct epithelial cells express an autocrine catecholamine loop that Pancreatic cancer cells and normal pancreatic duct epithelial cells express an autocrine catecholamine loop that Pancreatic cancer cells and normal pancreatic duct epithelial cells express an autocrine catecholamine loop that Pancreatic cancer cells and normal pancreatic duct epithelial cells express an autocrine catecholamine loop that Pancreatic cancer cells and normal pancreatic duct epithelial cells express an autocrine catecholamine loop. Cancer Drug Targets 2012;12:96–106.


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Dhar M. Stem cells, cloning and regenerative medicine. Invited presentation at: Preprofessional Science Forum, South College; December 2011; Knoxville, TN.


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Check Your Funding Record in TERA/PAMS

In 2011, the new TERA/PAMS proposal system went live. Not only must investigators use this electronic system in place of the paper routing form, but they should also be pro-active in checking their funding records to ensure accuracy between the previous database and the new one.

The system itself may be accessed at https://utia.tera.tennessee.edu/ramses/. and a link is also included on the UTCVM Research Web site.

To check your awards, after signing into the TERA/PAMS main page, select “My Awards” in the “Award Dashboard” box. To check submitted proposals, select “My Proposals” in the “Proposal Dashboard” box.

Verify both active and inactive awards, paying particular attention to begin and end dates and amounts. If something is missing or erroneous, contact Tammy Berry.

Roberson is American Indian Science and Engineering Society Professional of the Year

Large Animal Clinical Sciences associate professor Jerry Roberson was recently named the American Indian Science and Engineering Society Professional of the Year recipient. He received the award, which is presented for overall leadership and technical achievement, at a conference in Minneapolis.

Roberson (Cherokee) was honored for his dairy research, specifically mastitis diagnosis, treatment, and prevention and important findings related to the over-use of antibiotics in dairy farms and bacteria resistance. In addition, the society recognized his hands-on teaching style, which has garnered considerable praise and multiple awards.

Roberson (seen at right) also founded and advises the Native American Student Association at UT.