Fall 2010

Discovery Fall 2010

Misty Bailey

University of Tennessee - Knoxville

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Presentations cont. from p. 4

LeBlanc AK. Panelist in: Image Interpretation Session; American College of Veterinary Radiology Annual Scientific Meeting. August 18, 2010; Asheville, NC.

LeBlanc AK. Scientiff; Radiopharmaceuticals; Radioimaging agents & equipment; Computer and image processing; Radiation therapy; Quality control; Image quantification; PET; Radiation safety. Invited lectures at: Diagnostic Imaging Masters Program; June 2010; Università di Camerino, Camerino, Italy.

LeBlanc AK, Morandi F, Miller AN. Wall JS, Galyon GD, Moyer TD, Long M, Stuckey AC. Serial 18FDF-PET/CT can predict response to receptor tyrosine kinase inhibition in canine cancer. Oral presentation at: American College of Veterinary Radiology Annual Scientific Meeting. August 2010; Asheville, NC.

Legrande A. Polyprenyl immunostimulant. Oral presentation at: American College of Veterinary Internal Medicine forum on Infectious Disease Group; June 11, 2010; Anaheim, CA.


Mendis-Handagama C. Unveiling the mysteries of Leydig stem cell differentiation in the postnatal mammalian testis. Invited talk at: Second World Congress for in the postnatal mammalian testis. Invited presentation at: 4th International Symposium on Geospatial Health; August 2010; Melbourne, Australia.

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Tobias K. Portosystemic shunts: questions and answer; Methylcellulose and intrathoracic effusions; Hernias; Oral surgery; Esophagostomy tubes. Oral presentation at: American Veterinary Medical Association Annual Meeting; August 2010; Anaheim, CA.

Wang H-CR. Application of micro-imaging platforms. Poster presented at: American College of Veterinary Radiology Annual Scientific Meeting; August 2010; Asheville, NC.

Whitlock NC, Bahn J, Baek SJ. Resveratrol-induced ATF3 expression is mediated by EGR-1/FLK4 interaction. Presented at: Experimental Biology Meeting; April 2010; Anaheim, CA.


Research at the University of Tennessee College of Veterinary Medicine

Vol. 5, Issue 2

Fall 2010

UTCVm Stem Cell Group Attends 1st North American Veterinary Regenerative Medicine Conference by Dr. Madhu Dhar

A s part of the stem cell initiative here at UTCVM, four researchers obtained partial funding to attend the 1st North American Veterinary Regenerative Medicine Conference (NAVRM) held in Santa Ynez Valley, CA, March 5–6. Drs. Madhu Dhar, Dennis Geiser, and Steve Adair and Ms. Nancy Neilson attended the conference, which was jointly organized by the University of California-Davis School of Veterinary Medicine, Alamo Pintado Equine Medical Center, and Rood and Riddle Equine Hospital.

The meeting proved to be a remarkably successful gathering, bringing together more than 240 renowned scientists from the United States and Canada, all experts in regenerative medicine and cell therapy. Several open-forum roundtable discussions were held between researchers and practicing clinicians, covering a range of topics including clinical trial development, basic research and stem cell biology, regulatory affairs, and in-practice solutions.

The conference was moderated by Dr. Gregory Ferraro of the UC-Davis Center for Equine Veterinary Regenerative Medicine, and included presentations of the research work of Dr. Arnold Kaplan of Case Western Reserve University, Dr. Doris Borjeson of the UC-Davis School of Veterinary Medicine, Dr. Thomas Koch of the University of Guelph, and Dr. Alan Nixon from Cornell University. p1

Comparative & Experimental Medicine Research Symposium

Travel Award Winners

On June 14 and 15, 2011, 8 new scientists from 20 different departments came together to present research talks. Of those 81 were 55 researchers from the Institute of Agriculture, and UTIA took seven of the eight awards given.

• Phi Zeta Excellence in Animal Health Research Award: Laura Eberlein (College of Veterinary Medicine)
• Gamma Sigma Delta Excellence in Agricultural & Related Sciences Award: Katie Horvath (College of Veterinary Medicine) Research Assistant Professor Category, Award of Excellence: Seong-Ho Lee (Pathobiology)
• Research Associate Category, Award of Excellence: Oudessa (Animal Science) Nero Dego (Animal Science)
• Intern/Resident Category, Award of Excellence: Karen Wells (Graduate School of Medicine, Radiology)
• Graduate Student Category: 1st Place: Kusum Rathore (Genome Science & Technology/Comparative Medicine) 2nd Place: Nishan Kalapahana (Obesity Research Center/Animal Science) 3rd Place: Ashley Pedigo (Comparative & Experimental Medicine)
Whittlock Ears Experimental Biology Travel Fellowship

PhD candidate Nichelle Whittlock presented a novel approach to the Experimental Biology Meeting in Anaheim, CA, through an American Physiological Society/NIDDK Minority Travel Fellowship.

The fellowship was made possible by grant from the National Institutes of Health (NIH) and National Institute of Diabetes and Digestive and Kidney Disease and covered airfare, registration, meals, and lodging.

To be considered in the worldwide competition, Whittlock submitted an abstract, a letter of intent, CV, and recommendation letter. Whittlock’s mentor is Dr. Seung Joaen Baek. For full details about the presentation, see Recent Publications.

Discovery: Research at the University of Tennessee College of Veterinary Medicine (2010) 5.2

2011 Technology Maturation Fund Application Deadline Announced

The UT Research Foundation announced its fourth annual maturation fund program to help UT researchers further develop technologies that have potential commercialization. Up to $5,000 (direct costs) will be awarded to the highest ranking proposals.

The proposed project must be related to an existing or new UT invention or creation and will be judged on demonstration of a path for commercial development, market potential, and state of development.

The deadline for proposal submission is November 12, and awards will be announced December 17 in time for a project start date of January 17, 2011.

For more information, visit http://utrf.tennessee.edu or contact Joy Fisher at joy.fisher@utk.edu.

UT Libraries Subscribe to Journal of Visualized Experiments

The Journal of Visualized Experiments (JoVE) is a peer-reviewed, PubMed-indexed journal devoted to the publication of biological research in video format. The Materials and Methods section of each article contains a professional video that shows, rather than simply describes, experimental techniques.

This method of scholarly communication is especially helpful to researchers who are doing a technique for the first time or teaching the technique to someone else.

Faculty interested in publishing in the journal may arrange for a video to be done in their own lab with a regional, JoVE-provided videographer.

The journal is accessible to all UT faculty, staff, and students in the ejournals list on the library’s Web site: http://www.lib.utk.edu.

Two UTCVM Faculty with Prestigious Publications

Two papers by Pathobiology Department faculty members were recently published in high impact factor journals.

Reviews Immunology (impact factor [IF]: 32.2) and Proceedings of the National Academy of Science, USA (IF: 9.43)

Drs. Barry Rousse and David Brian, respectively published "Immunology and immunopathology to viruses: What decides the outcome?" and "Subgenomic messenger RNA amplification in coronaviruses." Full micrographs of their papers may be found in the Recent Publications section.
UTCVM Investigators Bring in Nearly $586,000 for Recent Sponsored Projects

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<th>Title</th>
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<td>Genomic evaluation of stone disease</td>
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<td>The effect of Yunnan baiyao on hemostatis and platelet function in healthy dogs</td>
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<td>Comparative Gastroenterology Society</td>
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*SelectedWorks by Jana Redmond*

An initiative of Trace, UT's digital repository, and a trademark of The Berkeley Electronic Press, SelectedWorks offers customizable author pages. An open-access showcase of faculty research, SelectedWorks (SW) allows easy upload of documents, including but not limited to previously published articles. SelectedWorks increases exposure to research with indexing by bepress over 160,000 papers strong.

The SW author page functions like a faculty Web page by providing access to your CV and publication list. With SW, updating the page is in your hands. UTCVM faculty member Dr. Marcy Souza likes the author control SW offers in comparison to standard faculty pages. Dr. Souza remarks, “My SelectedWorks page is set up as a link from my homepage. If anyone wants to look at an updated list of publications, they can follow the link to my SelectedWorks page.” SelectedWorks tracks the number of downloads each item receives and reports this number via E-mail.

Dr. Shelley Newman sees SW as an effective means to inform students and colleagues, both in-house and beyond UTCVM, of her work and research interests. Dr. Newman offers, “If you visit you may only have 20 minutes with a potential residency candidate, but you can refer them to the SW page where they can see your area of research interest.”

SelectedWorks also provides Dr. Newman and her colleagues with access to research being done within their department and, more broadly, at UTCVM. The download reports enable Dr. Newman to better understand how integrated her work is in the bigger scheme of things. To view current UT author pages, visit [http://trace.tennessee.edu/sw_gallery.html](http://trace.tennessee.edu/sw_gallery.html).

If you would like help setting up an SW author page, please contact Ann Viera at 974-9015 or annviera@utk.edu. You may also visit [http://bit.ly/TraceContributor](http://bit.ly/TraceContributor) or attend one of the training sessions offered throughout the semester at Hodges Library. For questions or more information on sessions, please contact the Trace+SW liaison at trace@utk.edu.

–Jana Redmond has a BA in English and is pursuing an MS in Information Science at UT
Microfluidic synthesis of \[^{18}\text{F}\]FLT. Poster presented at: Society of Nuclear Medicine Meeting; June 2010; Salt Lake City, UT.


Buchanan B, Frank N, Elliott SB. Effects of season on adrenocorticotropic hormone concentrations in a group of horses located in the state of Texas. Poster presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Cekanova M. Imaging of naturally occurring tumors in dogs and cats using newly synthesized NSAIDs. Oral presentation at: National Cancer Institute/ American Association for Cancer Research Imaging Camp; June 2010; St. Louis, MO.


Chameroy KA, Frank N, Elliott SB. Effects of levothyroxine sodium on body condition, blood measures of metabolic status, and glucose dynamics in horses with equine metabolic syndrome. Poster presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Chameroy KA, Frank N, Elliott SB. Effects of metformin hydrochloride on glucose dynamics during transition to grass paddocks in insulin-resistant horses. Presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.


Cox S, Martin-Jimenez T, Doherty T. Pharmacokinetics of intravenous and intramuscular tramadol in llamas. Presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.


Frank N. Management of the insulin resistant horse: Which endocrine disorder are we dealing with? Pituitary pars intermedia dysfunction versus equine metabolic syndrome: Diagnostics; Which endocrine disorder are we dealing with? Pituitary pars intermedia dysfunction versus equine metabolic syndrome: Treatment options; Equine endocrinology special interest group: Insulin resistance. Oral presentations at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Hecht S, Adams WH, Cunningham MA, Lane IF. Initial experience with the classroom performance system (CPSTM) in radiology education. Presentation at: EVDI Meeting; July 2010; Giessen, Germany.

Hecht S, Adams WH, Narak J, Thomas WB. Susceptibility artifacts due to metallic foreign bodies in small animal MRI. Presentation at: ACVR Annual Meeting; August 2010; Asheville, NC.

Hecht S, Durant AM, Bohling MW, Adams WH, Conklin GA. Use of contrast-enhanced MR angiography (CE-MRA) for the diagnosis of a vascular ring anomaly in a dog. Presentation at: EVDI Meeting; July 2010; Giessen, Germany.


Lane IF. Curriculum change; Incorporation of non-technical competencies into courses and curricula. Invited presentation at: North Carolina State University College of Veterinary Medicine, Course Directors Workshop; June 2010; Raleigh, NC.

Lane IF. How people learn; The teaching philosophy; Competencies, goals, and objectives; Course design; Lecture preparation; Clinical teaching. Invited presentations at: Tuskegee University School of Veterinary Medicine, Teaching and Curriculum Faculty Development Workshop; May 2010; Tuskegee, AL.

Lane IF. Refractory lower urinary tract diseases; Case examples in feline urology; Urinary incontinence in dogs; Reviewing the basics; Managing refractory incontinence in dogs. Invited presentations at: American Veterinary Medical Association Annual Convention; August 2010; Atlanta, GA.

Lee SH, Krisanapun C, Baek SJ. NSAID-activated gene-1 as a molecular target for capsacin-induced apoptosis through a novel molecular mechanism involving GSK3β, C/EBPβ, and ATF3. Presented at: EB Meeting; April 2010; Anaheim, CA.

Cont. on p. 6
Whitlock Ears Experimental Biology Travel Fellowship

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Discovery: Research at the University of Tennessee College of Veterinary Medicine (2010) 5.2.2

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Pedigo A, Odoi A. Disparities in geographic access to emergency stroke and myocardial infarction care. Poster presented at: Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke 2010 Scientific Sessions; May 2010; Washington, DC.

Pedigo A, Seaver W, Odoi A. Application of fuzzy clustering and discriminant analysis to identify neighborhood population characteristics and health needs. Poster presented at: 2010 Joint Statistical Meetings; August 2010; Vancouver, BC, Canada.

Prado M. Oral pharmacokinetics of oral ivermectin in camelids (Camelus dromedarius) and sheep (Ovis aries). Poster presentation at: American College of Veterinary Internal Medicine Annual Forum; June 2010; Anaheim, CA.

Prado M. Problems affecting small ruminants: Diagnosis and management of cob in the horse; Failure of passive transfer in different species. Invited presentations at: Scientific Congress, School of Veterinary Medicine, University of Panama; July 2010; Panama City, Panama.


Roberson J. Small ruminants for technicians; Odd reproductive problems of small ruminants; Management of the locally parasitized small ruminant; Three interesting cases and small ruminant tips; Clinical mastitis: The first 8 days. Presented at: 43rd Annual Convention of the American Association of Bovine Practitioners; August 2010; Albuquerque, NM.

Schumacher J. Reptile anesthetics and analgesia; Ultrasound and CT imaging tips; Gastrointestinal surgery. Presented at: 5th Congress of the World Small Animal Veterinary Association; June 2–5, 2010; Genève, Switzerland.


Souza MJ, Guzman D, Paul-Murphy J, Cox S. Framadom in Hispaniolan Amazon parrots. Oral presentation at: Annual Conference of Association of Avian Veterinarians; August 2010; San Diego, CA.

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Wall JS, Stuckey A, Kennel SJ, Richey T, Morandi F, Jones M, Greenacre C, Souza M, LeBlanc AK. Diagnostic veterinary imaging using micro-imaging platforms. Poster presentation at: American College of Veterinary Radiology Annual Scientific Meeting; August 2010; Asheville, NC.


\*Discovery is published four times each year by the UTCVM Office of Research and Graduate Programs. Comments and suggestions may be forwarded to the office in care of Misty Bailey: mrbailey@utk.edu or 865-974-7446. Photos copyright University of Tennessee.

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• Gamma Sigma Delta Excellence in Agricultural & Related Sciences Award: Katie Horne (College of Agriculture)

• Research Assistant Professor Category, Award of Excellence: Seong-Ho Lee (Pathobiology)

• Research Associate Category, Award of Excellence: Oudessa 2010 Perro (Animal Science)

• Intern/Resident Category, Award of Excellence: Karen Wells (Graduate School of Medicine, Radiology)

• Graduate Student Category:
  1st Place: Kusum Rathore (Genome Science & Technology/Cumulative Medicine)
  2nd Place: Nishan Kaliapathana (Obesity Research Center/(Animal Science)
  3rd Place: Ashley Pedigo (Comparative & Experimental Medicine)