Summer 2011

Discovery Summer 2011

Misty Bailey
University of Tennessee - Knoxville

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Recent Presentations


Cain CL, Morris DO, Rankin SC. Sex hormone analysis in dogs and cats. Invited Clinical poster presentation. Denver, CO.


Cekanova M, Uddin J, Rartges J, Callens A, Alem Do, Vet Dermatol Ther 17th Biennial Symposium; May 2011; Madison, WI.

Choudhary C, Rathore K, Sood S, Wang H-CR. Synergistic induction of Meck1/2 and Nocotio-MX1 in the liver of CCL4 expressing canine bladder cancers using novel optical tracer, fluorocoxib. Poster presented at: Frontiers of Biomedical Imaging Science; June 2011; Vanderbilt University, Institute of Imaging Science, Nashville, TN.

Enderlin K, Norton OS, Cekanova M, St. Peter's FL.

Lankton J, Miller DL. Hot nests and sea turtles. Presented at: Southeastern Veterinary Pathology Conference; May 2011; Guildford, VA.

Lee SH, Bahn JH, Whittemore JC, Baek SJ. Activating transcription factor 2 (ATF2) controls sensitization to local anesthetic-induced ATF3 expression via MAP kinase pathways. Poster presented at: Am Coll Vet Int Med Res Annual Meeting; June 2011; Orlando, FL.


Legendre A. Preliminary findings of polyphenylo immunomodulant treatment of dry flare. Oral presentation at: Winn Feline Foundation 33rd Annual Symposium on Feline Health; June 23, 2011; Reston, VA.


Collin O’D, Wang H-CR. Comparative pathology of ranaviral infections in dogs and cats. Presented at: Southeastern Veterinary Pathology Conference; May 2011; Guildford, VA.

Miller DL. Comparative pathology of ranavirus disease among amphibians, reptiles and fish. Invited poster presentation at: First International Symposium on Ranaviruses/Join Meeting of the Society of Wildlife and Herpetological; July 2011; Minneapolis, MN.


Howell H, Lane J. Using competency assessment, to increase student self-awareness in PBL. Oral presentation at: Association of Medical Science Educators Annual Meeting; June 2011; Philadelphia, PA.


Cain CL, Morris DO, Rankin SC. Hyperbaric oxygen treatment affects canine mesenchymal stem cells in vivo. Poster presentation at: 2nd N Am Vet Dermatol Forum; April 2011; Galveston, TX.


El-Abd EL-Salam, et al. Evolution of courses in a veterinary curriculum. Invited oral presentation at: American Association for the Advancement of Science Week; June 2011; St. Peter’s, FL.

Shalini Sharma, Mohammed Al-Wadei, Laura Bryan, PhD, DVM, MS, DACVIM (Oncology). Poster presentation at: 12th Annual Coll Vet Int Med Forum; June 2011; Denver, CO.

Tobias K. Surgery of the digestive tract: urethral surgery; porcine stomach; wound closure techniques; managing wounds with resistant Staph. Oral presentations at: DC Academy of Veterinary Medicine; June 2011; Fairfax, VA.

Tobias K. Tension-relieving techniques; flaps and grafts; hard-to-manage wounds; methicillin-resistant Staph infections; tips and tricks for intestinal surgery; evaluation of the large intestines; salivary mucoceles. Oral presentations at: Pacific Veterinary Conference; July 2011; Anaheim, CA.

Van Amstel S. Nutritional and environmental causes of laminitis in cattle. Guest speaker at: Southeastern Veterinary Pathology Conference; May 2011; Guildford, VA.


Twelve of these sinus model papers were presented at the CEMPH Research Symposium, which was held June 20 and 21 in the Veterinary Medicine Building. Even some of the overflow seating was used for Dr. Franziska Grieder’s Monday morning talk, “One Health, One Medicine: Veterinary Research Scientists for the 21st Century.” Dr. Giedre invoked her experience as the Director of the Division of Comparative Medicine Sigma Delta Beta award of excellence. Additional two residents from the Small Animal Clinical Sciences Department earned awards. Dr. Jacqueline Bryan and Dr. Debra Vougaris earned cash and travel awards, respectively. For a full list of UTCVM presentations, see the program linked below.

Twenty-two different departments were represented, and over 80 presentations were given at the CEMPH Symposium, which was held June 20 and 21 in the Veterinary Medicine Building. Even some of the overflow seating was used for Dr. Franziska Grieder’s Monday morning talk, “One Health, One Medicine: Veterinary Research Scientists for the 21st Century.” Dr. Grieder invoked her experience as the Director of the Division of Comparative Medicine Sigma Delta Beta award of excellence. Additional two residents from the Small Animal Clinical Sciences Department earned awards. Dr. Jacqueline Bryan and Dr. Debra Vougaris earned cash and travel awards, respectively. For a full list of UTCVM presentations, see the program linked below.

A complete list of award winners, as well as the full program and schedule, are available online at http://www.vet.utk.edu/research/symposium/. Paper copies of the program, which includes the abstracts of all presentations, are available as well (contact Misty Bailey if you would like one) .

Research at the University of Tennessee College of Veterinary Medicine

In this Issue

- Research symposium awards, Fenwick honor; - Hurst award, Blackford honor; - Miller symposium, Gouffon honor, Abd-Elaim award; - Lyons & McEntee cover, open-access posters; Hurst honor, Patton Science Daily; - EndNote X, civility, externally-funded awards; - presentations

- Fenwick is the first UT faculty member and the first veterinarian to receive the honor since the fellows’ inception in 2003. The program brings together a group of experienced researchers who are advancing the science and technology capabilities of the Department of State. After their 1-year term, researchers return to their academic appointment but remain available for special projects for the next 5 years.

Fellowships are awarded on the basis of scientific achievements, articulation, communication skills, and the applicants’ interest in science policy issues.

Fenwick awarded Jefferson Science Fellow

B. Brad Fenwick, professor in the Department of Biomedical and Diagnostic Sciences, has been named one of 13 Jefferson Science Fellows chosen for 2011. In this role, he will serve the U.S. Department of State as a science advisor in Washington, DC. Fenwick plans to use this opportunity to work toward promoting international research cooperation with UT scientists. His appointment begins in August, and his specific assignment will be determined in the next few weeks.

L-R: Dr. Franziska Grieder, Dr. Debra Vougaris, Dr. Mohammad Fahad Ullah, Shalini Sharma, Dr. William Bass.
Blackford Takes Continuing Educator of the Year Award

At this year's Western Veterinary Conference (WVC), Dr. Jim Blackford from the Department of Large Animal Clinical Sciences, was selected by conference attendees as the Equine Continuing Educator of the Year. Ac- cording to the WVC, he exemplifies “the tal- ent and commitment that ensure the continuing education experience at the Western Veterinary Conference remains one of the finest in the world.” Blackford presented on equine wound management. His award was featured in the 2012 conference program.

Civility in Scientific Discourse

This spring, Chancellor Jimmy Cheek launched a campus-wide promotion of civility, defining its guiding principles as “inclu- sivity, diversity, dialogue, collegiality, respect, knowledge, integrity, learning, awareness, and responsibility.”

Chancellor Cheek encourages everyone on campus to treat others as they would want to be treated. Yet, in an academic environment where debate and critique of ideas is critical, civility must often be combined with necessary, and sometimes heated, discourse.

Two recent editorials take on that delicate balance of constructive criticism and civility in the world of research, in particular regarding peer review and reputation.

David G. Drubin, editor-in-chief of Molecular Biology of the Cell, makes these recommendations for civil and useful manuscript peer review: “Review a manuscript only if you can do so objectively” and “Do not ignore criticism. Do not commit to do it. As for review- ing manuscripts and grants, write the reviewers: ‘Review a manuscript only if you can do so objectively’ and ‘Don’t try to predict a manuscript’s future impact. Remember that it is not your paper’” if the writing is clear, “don’t change something just because that is not how you would say it.”

UCTVM Investigators Bring in Nearly $2 Million for Sponsored Projects

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Similar to Drubin’s advice, Philip E. Bourne and Virginia Barbour, editors-in-chief of PLoS Computational Biology and PLoS Medicine, respectively, recommended 10 rules for building and main- taining a scientific reputation. Much of their advice is focused on ci- vility. For example, they advise not to ignore criticism, but instead to “When you write a letter of recommendation, do a better job. Reference letters for those who don’t deserve them. Do not write reference letters for those who don’t deserve them.”

To read the complete articles, see the citations below.

Research Spotlight EndNote X5 Available Soon

The latest version of EndNote, EndNote X5, will soon be available through the UT Li- braries and the Office of Information Technology (OIT). The upgrade was announced June 24, 2011. All current EndNote users, the parent company, Thomson Reuters, is a reference management software that eases some of the tediousness of writ- ing by assisting the author in inserting and formatting of internal citations and the refer- ence list. EndNote software boasts over 5,000 journal styles from which to choose. UT Libraries and OIT share the $20,000 per license fee so that all students and students will be able to download the new version for free. EndNote X5 will be made avail- able soon. For all things Endnote, see the Endnote support page at http://www.lib.utk.edu/refs/endnote/.

For more information on these grants and others, visit the Office of Research Web site at research.utk.edu.

Publications, cont. on p. 3
Miller Co-organizer for First International Symposium on Ranaviruses

The First International Symposium on Ranaviruses recently wrapped up in Minneapolis, MN. Dr. Debra Miller, associate professor in the departments of Biomedical and Diagnostic Sciences, and Forestry, Wildlife, and Fisheries, helped organize the symposium, along with Drs. Matthew Gray, Jesse Brunner, Jason Hoverman, and Andrew Storfer.

Held as part of the Joint Meeting of Ichthyologists and Herpetologists, the symposium brought together 24 speakers from eight countries to learn and share information about the impact of this pathogen on ectothermic vertebrates, with hopes to develop new research collaborations and identify strategies aimed at reducing or preventing the emergence of ranaviruses.

CEM Program Grad & UTCVM Post-Doc Wins Prestigious National Egyptian Award

Dr. Mohamed Abd-Eldaim, formerly a post-doctoral research associate in the Virology Laboratory, has won the Egyptian State Incentive Award for young scientists for 2011. His current research is a continuation of what he began here at UTCVM.

Abd-Eldaim was one of only 32 such incentive awardees within Egypt, and one of only eight in his category of Agricultural Sciences. The honor comes with an approximately $8,500 cash award. Winners are selected by the executive boards of the Egyptian Academy of Science and the Supreme Council for Culture. Abd-Eldaim is a member of the Faculty of Veterinary Medicine at Suez Canal University in Ismailia, Egypt.

While at UTCVM, he was involved in several different projects. Abd-Eldaim published not only his PhD work (graduated fall 2000) on feline calicivirus with Dr. Leon Potgieter, but also with Dr. Melissa Kennedy on feline coronavirus, with Dr. Matt Allender on reptile and amphibian infectious disease, and with Dr. Linden Craig on Potomac horse fever.

Abd-Eldaim is seen below presenting at the 2009 Comparative & Experimental Medicine and Public Health Research Symposium.

Publications, cont. from p. 2


Grad Student Panel Includes CEM’s Gouffon

Julia Gouffon, PhD student in the Comparative and Experimental Medicine graduate program, was recently selected to participate in the Program for Excellence & Equity in Research (PEER) Spring Symposium graduate student panel. During the panel, entitled “Successfully Navigating Graduate Life,” Gouffon and other panelists discussed ways to survive and thrive graduate programs in science, technology, engineering, and math.

The program also included talks by professionals in various disciplines and from various employers. These session leaders discussed resumes, funding, and collaborating. Gouffon is mentored by Dr. Michael Zemel and is also the director of the UT Affymetrix Core Facility.


UTCVM-UTGSM Research Collaboration Focus of Lab Invest Cover

Dr. Jeremiah Lyons and Michael McEntee, of the Department of Biomedical and Diagnostic Sciences, along with Dr. Jonathan Wall of the UT Graduate School of Medicine, had their research highlighted on the cover of the Nature journal Laboratory Investigation. The cover shows a high-resolution computed tomography (CT) scan of a plaque at the branch point of the abdominal aortic wall (denser yellow) from a dog with mucopolysaccharidosis-I. The progressive disease shares some similarities with atherosclerosis.

Full reference information for the article may be found in the Publications section of this newsletter.

F1000Posters Open Access

Open-access Poster Repository Now Available

A fairly new open-access repository called F1000 Posters allows uploading and searching of posters from the leading biology and medicine conferences.

Developed by Faculty of 1000, the founders of open access, the repository includes posters from over 180 national and international meetings, with some of the top-performing posters receiving up to 1,200 views per month.

This free tool will often allow access to the latest developments presented at conferences several months or even years before they are published as articles.

Copyright for all submitted posters remain with the author(s). In addition, all posters are watermarked so users may not grab a screen image without providing the source.

Howell’s Poster Selected for Podium Presentation

A poster on using competency assessment to increase student self-awareness in problem-based learning exercises presented by Dr. Nancy Howell was chosen for a podium presentation at the International Association of Medical Science Educators Annual meeting held in St. Petersburg, FL, in June. Howell’s poster was one of only four given that honor. The other author on the poster was Dr. India Lane. Full details may be found in the Presentations section of this newsletter.

Patton’s Collaborative Feral Pig Work Featured on ScienceDaily

Her collaborative work on feral pigs in Eastern North Carolina earned Dr. Sharon Patton, Department of Biomedical and Diagnostic Sciences, a feature on ScienceDaily’s headline news. The April 30 article discusses Patton’s involvement in examining the pigs to determine exposure to Toxoplasma gondii and Trichinella, both of which are considered zoonotic. She, along with researchers at North Carolina State University, published her research in the Journal of Wildlife Diseases. They found that the wild hogs were reservoirs for the two parasites. Full reference information for the article may be found in the Publications section of this newsletter.

ScienceDaily is an online, popular science news Web site with more than 3 million monthly visitors; the site generates nearly 15 million page views a month.
Blackford continues Taking Educator of the Year Award

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To read the complete articles, see the citations below.


Recent Presentations

Baek SJ. Molecular targets of NS5A in coxsackievirus B3-infected tumor cells. Poster presented at: The Royal Golden Jubilee PhD Program, Mahidol University presented at: International Thailand.


Cekanova M, Lucy K, Geiser D, Millis D, Legendre A, Whitlock D. Hyperbaric oxygen treatment affects canine mesenchymal stem cells in vivo. Poster presentation at: 2nd Annual Am Vet Med Assoc Research meeting; April 2011; Galveston, TX.


Legendre A. Preliminary findings of polyurethane immunomodulant treatment of dry眼. Oral presentation at: Winn Feline Foundation 33rd Annual Symposium on Feline Health; June 22, 2011; Reston, VA.


Neuman SJ. Enzymopathic cytisins in a dog. Poster presentation at: Southeast Vet Pathol Conf; May 2011; Tallinn, Estonia.


Rothem BE, Travis ER, Hill BL, Miller DL. Stream salamander occupancy and population growth in the southern in the Blue Ridge Mountains, USA. Poster presented at: Joint Meeting of Ichthyologists and Herpetologists; July 2011; Minneapolis, MN.

Saleh M, Cekanova M, Coan P, Bemis D, Newkirk J, et al. Effect of local anesthetic on microorganisms in a moist wound site infection. Presentation at: Graduate School of Medicine Research Day; May 25, 2011; Knoxville, TN.

Shen RF, Wu W, Heao CT, Patel S, Martin B, Baek SJ. Combined technical platform to facilitate the identification and quantification of biomarkers responding to an anti-diabetic compound. Poster presented at: 59th AMS Conference on Mass Spectrometry and Allied Topics; June 2011; Denver, CO.


Tohias K. Surgery of the digestive tract; urate surgery; porocutaneous shunts; wound closure techniques; managing wounds with resistant Staph. Oral presentations at: DC Academy of Veterinary Medicine; June 2011; Fairfax, VA.

Tohias K. Tension-relieving techniques; flaps and grafts; hard-to-manage wounds; methicillin-resistant Staph infections; tips and tricks for intestinal surgery; management of the large intestines; salvage procedures. Oral presentations at: Pacific Veterinary Conference; July 2011; Anaheim, CA.

Van Amstel S. Nutritional and environmental causes of laminitis in cattle. Guest speaker at: 2nd Annual Symposium of Veterinary Surgery and 9th Iranian Symposium of Veterinary Surgery, Anesthesia & Radiology; April 2011; Kish Island, Persian Gulf, Iran.


Whittemore JC, et al. Association between neuraminidase and enzootic cat infection. Poster presentation at: Southeastern Veterinary Association; November 2011; Tifton, GA.

Whittemore JC, et al. Determination of butorphanol using HPLC in cortisol. Poster presentation at: Southeastern Veterinary Association; November 2011; Tifton, GA.


Research at the University of Tennessee College of Veterinary Medicine