Spring 2011

Discovery Spring 2011

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Recent Presentations

Bartges J. Small animal case studies. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.

Callens A. Getting on the right track: Urinary tract issues. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.

Craig L. Synovial tumours in dogs. Presentation at: New Zealand Society for Veterinary & Comparative Pathology Annual Conference; February 13, 2011; Palmerston North, New Zealand.

Davis J. Dermatology techniques and special tips lab. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.

Frank L. Alopoeia—is it thermal?/The itchy cat; Managing canine otitis. Presentations at: UTCVM Annual Conference; February 2011; Knoxville, TN.

Gray MJ, Duflus ALJ, Miller DL. Ecology and pathology of ranaviruses. Workshop presented at: Southeastern Partners in Amphibian and Reptile Conservation Annual Meeting; February 2011; Louisville, MS.

Hecht S. Small animal applications of magnetic resonance imaging–Update. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.


Wells J. Acute renal failure. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.


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In this issue

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The Office of Information Technology (OIT) at UT offers the analysis.utk.edu system, which allows users to run both quantitative and qualitative research analysis software as if it were built into their own computer. The software runs on a server and displays images of results on the user’s computer. With it, users may open and save files on their own computer’s disk drive and print to their own printer, and it works from any Windows, Macintosh, Linux, or Solaris computer.

Students may access these tools using their Net ID and password. Faculty and staff must purchase a client license through the Bookstore Technology Center for a one-time fee of $17. Software available on Analysis includes Amos, ATLAS.ti; Clementine, EQS; ImageJ, JMP, Maple, Mathematica, MATLAB, Mestrenova, Mplus, N & N/U*STAR, Origin, QDA Miner, R, SAS, SAS Enterprise Guide, SAS Enterprise Miner, SAS Text Miner, Scientific Notebook, SigmaPlot, SigmaScan, Stata, SPSS, Stata, and SUDAAN.

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Changes for the UTCVM Office of Research

The Greek philosopher Heraclitus said the only thing constant is change. As with everything in life, this holds true for the UTCVM Office of Research and Graduate Studies, as well. In February, Dr. Leon Potgieter, Interim Associate Dean, retired and transferred his interim title onto Dr. Michael McIntee until a search for a non-interim replacement is complete.

The office has always held an important role as a facilitator of research and service as priorities in strategic planning for the next 5 years. With discovery, it is important to examine our strengths and build on them, recognizing that we lack the infrastructure and critical mass of larger institutions. While we do have productive, well-funded research programs in basic biomedical, translational, and clinical medicine, there has been a relatively low collaboration between groups to produce the synergy necessary to achieve the broader scope that might attract funding for program or training grants, or significant foundational support.

As we go forward in building our research enterprise, it will be important to consider how to buttress and expand our current areas of strength with strategic hires and development of collaborations across campuses and the state. This will not happen overnight and will require a college-wide discussion about where our strengths reside and where we might consider focusing in the longer term. Should we direct efforts toward major funding agencies (NIH, USDA, DOD), our clinical strengths, and/or what would arguably benefit Tennesseans and their agriculture? What do we have in people, facilities, or location that gives us an edge in addressing problems that are backed by funding sources?

Just as important is to ensure veterinarians have an increasing role in biomedical research, not only for the health of our profession, but because DVMs can contribute a unique perspective and knowledge base highly relevant to a wide range of topics from human and animal health to the environment. How do we in the UTCVM help increase the number of DVMs actively engaged in scientific discovery and contributing to our global health?

We have a small research footprint compared to many other colleges of veterinary medicine, and we lack the engine of robust local biomedical research environment often provided by larger medical schools; so we need to build a strength internally (difficult to imagine more than one or two overlapping) and/or develop stronger collaborative ties with our neighbors, which will happen only when they understand what we have to offer. In summary, we can do a lot to increase research productivity and graduate training within the CVM, and the introduction of a fresh perspective in the form of a new Associate Dean for Research will no doubt help realign our efforts and strengthen our programs.

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Research at the University of Tennessee College of Veterinary Medicine
Kalck, Newkirk, Whitlock Recipients of ITC Faculty First Grants

The Innovative Technology Consulting division at UT accepts proposals each year for projects involving technology in teaching. Two recipients of this year’s grants are Large Animal Clinical Sciences faculty Dr. Karen Kalck and Dr. Brian Whitlock.

Kalck’s project, entitled “Choose your own adventure in equine medicine,” will allow veterinary students to encounter cases through Web-based modules developed from previous hospital cases. The format will include rewards and penalties based on correct diagnoses and treatment choices. The program will increase student opportunity to learn about equine medicine at a time when economic uncertainty is slowing the incoming caseload.

Recent Publications


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Kalck’s project, entitled “Choose your own adventure in equine medicine,” will allow veterinary students to encounter cases through Web-based modules developed from previous hospital cases. The format will include rewards and incentives for students based on their performance. The module and the program will increase student opportunities to learn about equine medicine at a time when economic uncertainty is slowing the incoming caseload.

Newkirk’s award will allow easy Web-based access to gross pathology images for faculty to use in teaching. A self-quiz feature will allow veterinary students to enhance their classroom learning of pathology. Her project title is “Development of a Web-based searchable archive and database for pathology images.”

Whitlock’s plan, “Mobile teaching and learning module for VM993 (Field Services),” is to develop a clinical, case-based learning module with interactive comprehension assessments that can be used in a mobile (truck) environment like the one currently available for students spending long periods of time driving from farm to farm. The assessment portion of the project will allow Whitlock to evaluate student comprehension in the field and in the classroom, as well.

Recent Publications


Research Resource Spotlight

PMID to PMCID Converter

All NIH-funded research articles are now required to be deposited into PubMed Central. Most journals provide this service free to authors; others require the authors to pay if they wish to use the service; and still others require researchers to submit the articles to PubMed Central themselves.

These PubMed Central identification numbers (PMCsIDs) must then be included in NIH grant applications and progress reports when an author references his or her own NIH-funded publications, both in the references section and in the biosketch.

The National Center for Biotechnology Information (NCBI) offers a PubMed ID (PMID) to PMCID converter for easier reporting. This converter will return results for up to 2,000 PMIDs in either PMCsIDs or NIHMS IDs, if they exist. PubMed users may perform a search of their published articles and produce a PMID list to copy and paste into the converter by choosing “PMID List” options in the “Display Settings” drop-down arrow located at the top of the search results page.


CEMPH Research Symposium June 20 & 21

This year’s Comparative & Experimental Medicine and Public Health Research Symposium will take place on June 20 & 21 in the Veterinary Medicine Building.

Once again, we expect around 100 new investigator presentations related to human and animal health, with presenters from four different UT campuses. The format for these talks will be 10-minute oral presentations, followed by 5 minutes for questions.

Of the four featured speakers, we are especially excited to welcome Dr. Franceszi Zrieder, Director of the Division of Comparative Medicine at the National Center for Research Resources (NIH). Dr. Zrieder will present “One health, one medicine: Veterinary research scientists for the 21st century” on Monday morning.

Information about other speakers, as well as the call for abstracts, may be found at http://www.vet.utk.edu/research/symposium/. We will continue to update the Web site with more information as it becomes available.

UCTM Investigators Bring in $860,664 for Recent Sponsored Projects

Investigation of a novel approach to forensic analysis using neutron imaging techniques

M Cekanovam

UT-Battelle/ONR

1/28/11

1/1

147,213

Genomic resources for the control of canine pyoderma

S Kania

AKC Canine Health Foundation

1/1/11

1/1

42,466

Mechanisms in herpetic keratitis

R Brousse

8/1/11

4/5

314,449

Regulatory T cells in HSV immunity and immunopathology

R Brousse

8/1/11

4/5

356,536

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Open Access Publishing Support Available

Publishing in an open-access journal is easier than ever thanks to the UTK Office of Research and University Libraries. They are continuing to offer up to $3,000 per article toward article-processing fees for open-access publishing.

Applications are funded on a first-come, first-served basis, and authors must request a waiver or reduction of fees from the publisher before applying for this internal award.

More information, as well as the application form, may be found at http://www.lib.utk.edu/openpub/prog.html.

Dr. Franceszi Grieder of NCR will give Monday’s keynote address.
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Hecht S. Small animal applications of magnetic resonance imaging-Update. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.

Koob C. Characterology of the tiger. Poster presented at: North American Wildlife Conference; March 28–April 1, 2011; Redwood City, CA.

McEntee M. Green tea catechins at non-cytotoxic levels suppress environmental carcinogens. Poster presented at: The University of Tennessee/Oak Ridge National Laboratory Graduate School of Genome Science & Technology Annual Retreat; March 4, 2011; Knoxville, TN. Abstract 26.

Pedigo A. Ail, the other disease? Disparities in ambulance response and transport times for stroke and heart attack patients in East Tennessee. Oral presentation at: Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions; March 24, 2011; Atlanta, GA.

Pedigo A. Ail, the other disease? Place matters: Disparities in ambulance response and transport times for stroke and heart attack patients in East Tennessee. Oral presentation at: Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions; March 25, 2011; Atlanta, GA.

Puchino L, Wang H-CR. The role of HD1182 in the regulation of cellular properties. Poster presented at: The University of Tennessee/Oak Ridge National Laboratory Graduate School of Genome Science & Technology Annual Retreat; March 4, 2011; Knoxville, TN. Abstract 27.


Schumacher J. There is a snake in room #196: Handling and clinical procedures for venomous snakes; Hypothermia is not an appropriate reptile anesthesia: Reptile anesthesia and analgesia; A review of selected surgical cases in reptiles; Ultrasound and CT-Practical uses for the reptile patient; Lions, tigers and bears – Oh my! Large carnivore sanctuaries; Getting hands-on; Restraint and immobilization of wild animals in your clinic. Presented at: North American Veterinary Conference; January 2011; Orlando, Florida.

Wells J. Acute renal failure. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.


Wilson M. Small animal oncology; the veterinarian's role. Presentation at: UTCVM Annual Conference; February 2011; Knoxville, TN.

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