Discovery March 2007

Misty Bailey
Editor

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Figure 1. Fused cell figure as normal eyes (x 4.5). (adapted from JAVMA 2004; 220:230-46).

Figure 2. Fused cell figure as color-blind eyes (x 4.5). (adapted from JAVMA 2004; 220:230-46).

In this Issue

To be or not to be.

Animal care and use, biosafety, environmental health and safety, human subjects, and radiation safety: if you do research at UT, you are aware of at least one, or perhaps several of these compliance entities. These are the areas of compliance that directly affect most researchers.

Often perceived as nuisances, the committees and compliance professionals supporting these areas keep the universities assurance laws and regulations that govern our ability to perform research. When there is failure in compliance oversight, breaches may result in unwanted inspections, audits, and fines to the university, as well as loss of accreditation and loss of investigator privilege.

Tips for Friendly Figures

1. Communicate with color and shape, when possible.
2. Avoid using greens and reds together.
3. Use bright colors.
4. Avoid using red on a dark background.
5. Avoid using text only.
6. Use bright colors instead of gray-scale.

An estimated 8% to 10% of the male population (less than 1% of females) have problems distinguishing between red and green. These problems can prevent some peer reviewers and readers in general from understanding the information being presented on the page.

In addition to computer-generated figures, fluorescent staining may present the problem of color-blind readers. This is a serious problem as color vision defects are common and the eyes

Pairing red and green is also available through VetNet.

Research at the University of Tennessee College of Veterinary Medicine

In Compliance

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The foundation chose only 25 students from their international applicant pool. Fellowship recipients are invited (all-expenses-paid) to present a poster at the foundation’s 2008 annual meeting, where they will be eligible to compete for an additional cash award.

Jennifer will be working with Dr. Melissa Kennedy on cancer detection in cheetahs, and Melissa will assist Dr. Joseph Bartges in studying calcium oxalate in cats.

**Eighty Veterans Students Receive Special Recognition**

Eighty veterans students were recognized in January for their outstanding participation in the 2006 Center of Excellence (COE) Student Summer Scholar Program. The following students were honored with awards from the COE Program Committee: Cat Ashe (outstanding abstract), Helen Reaves, Lora Abbott, Sharon Stone, Sandra Bates, Jody Markwardt, Karie Myers, and Kristi Sowers (abstracts).

The awards were funded by Merck Meria, a co-sponsor of the Student Summer Scholar Program.

**Millis Honored by World Small Animal Veterinary Association**

Dr. Darryl Millis was the recipient of the WSAVA Iams Paatsama Award at the 31st WSAVA Congress in Prague, Czech Republic.

The award honors outstanding scientific achievement in orthopedic medicine and surgery, specifically in the fields of growth and skeletal development in large breed dogs.

Named after the late Prof. Saki Millis, a professor in canine orthopedic surgery and WSAVA president from 1977-1979, the award was first given in 2002. Past winners include Dr. Gail Smith, a leader in canine hip dysplasia treatment.

**Feline Lentivirus Work Earns Adams Esteemed Award**

Dr. Hayley Adams received a Student Award from the American College of Veterinary Microbiologists for her oral presentation of “Feline Lentivirus: Molecular Analysis and Epidemiology in Southern African Lions” at the Conference of Research Workers in Animal Diseases, an international meeting held in Chicago in December.

Only 3 students each year receive this prestigious award, which is based on the content of the research paper and the quality of the presentation.

Dr. Adams is a PhD student working with Dr. Melissa Kennedy. As part of her program, she spent six months in South Africa working with researchers at the University of Pretoria. Dr. Adams is also a 2001 graduate of the CVM.

**Comparative & Experimental Medicine Graduate Program to Host Research Day**

Graduate students will be showcasing their research efforts this summer at the First Annual Comparative and Experimental Medicine (CEM) Graduate Student Research Symposium. Students have been invited to submit abstracts for both posters and oral presentations. Prizes will be awarded to students with the best oral presentations.

The goal of this symposium is to foster networks within the program by giving students an opportunity to share research results, exchange ideas, and network with scientists in a variety of disciplines.

The CEM program is interdisciplinary, with students studying in a wide variety of areas in both human and animal health.

All faculty, staff, and students are invited to attend the free event, which will take place on Friday, June 22, from 9 am until 4 pm.

**Discovery: Research at the University of Tennessee College of Veterinary Medicine (2007) 2.1**

**Research Resource Spotlight**

**Free EndNote Web Now Available**

A limited version of EndNote referencing software is now available free on the Web. With it, users may import up to 10,000 editable reference records in over 2,300 reference styles, including the Journal of the American Veterinary Medical Association, BMC Cancer, and the Journal of Comparative Pathology.

Not only does the program format and formulate references in the designated style, it also inserts in-text references into Word while you write. Although some journals do not allow reference-creating software because the codes it creates interfere with publishing software, EndNote Web has a feature to remove those codes once the manuscript is finished. To delete field codes before submitting a manuscript, go to Tools, EndNote Web, and Remove Field Codes. Be sure to save a coded copy of the document before removing codes, as they will be removed from the entire document, not just references.

The free version of EndNote has limitations compared to the full version, such as the inability to save and access advanced searches, or cite figures, tables, or equations. The full version costs around $200 for faculty/staff and $100 for students at the university.

To learn to use EndNote, see the tutorial on www.endnoteweb.com. The entire tutorial takes about an hour to complete, or individual components may be completed at different times (on average, about 4 minutes for each component).

**CVM Receives Nearly $466,000 for Sponsored Projects Since December**

<table>
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<tr>
<th>Title</th>
<th>PI</th>
<th>Agency</th>
<th>Start date</th>
<th>Type</th>
<th>Amount</th>
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<td>The evaluation of SIS for surgical repair of heterotaxy incisions at the time of cesarean delivery</td>
<td>HS Adair</td>
<td>Cook Biotech Inc</td>
<td>2/15/07</td>
<td>Year 1 of 1</td>
<td>22,366</td>
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<tr>
<td>Validation of the use of the SmartPill capsule for measurement of transit time, pH, temperature, and luminal pressure in the gastrointestinal tract of horses</td>
<td>FM Andrews</td>
<td>Private industry</td>
<td>1/2/07</td>
<td>1/1</td>
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<tr>
<td>The efficacy of Seabuckthorn Liquid Supplement in prevention of gastric ulcers in horses</td>
<td>FM Andrews</td>
<td>Seabuck Equine, LLC</td>
<td>2/1/07</td>
<td>1/1</td>
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<td>Improved diagnosis and monitoring of equine endocrine disorders</td>
<td>N-Frank</td>
<td>ACVIM</td>
<td>1/1/07</td>
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<td>Molecular pathways that mediate genetic susceptibility to low dose ionizing radiation</td>
<td>SA Kania</td>
<td>UT-Danteille/ ORNL</td>
<td>2/15/07</td>
<td>1/1</td>
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<td>Screening for antibodies to the 7b protein of feline coronavirus in cats for detection of persistent infection</td>
<td>MA Kennedy</td>
<td>Winn Feline, LLC</td>
<td>12/1/06</td>
<td>1/1</td>
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<td>Characterize the hemostatic dressing in fields by determining cDNA sequence, mRNA expression, and molecular weight composition</td>
<td>A Lusby, C Kirk</td>
<td>Nestle Purina</td>
<td>1/1/07</td>
<td>1/1</td>
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<td>Expansion of the shelter population index for cats: Phase 2 of a multi-institutional study</td>
<td>KC New</td>
<td>Winn Feline Foundation &amp; George Sydney and Phyllis Redd Miller Trust</td>
<td>12/1/06</td>
<td>1/2</td>
<td>21,330*</td>
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<td>T Regulatory Cells in HSV Immunity and Immunopathology</td>
<td>BT Rouse</td>
<td>NIH</td>
<td>2/1/07</td>
<td>2/5</td>
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<td>Hemostatic dressing</td>
<td>KM Tobias</td>
<td>DeRoyal Industries</td>
<td>2/12/07</td>
<td>1/1</td>
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<td>Ivermectin levels in blood and cerebrospinal fluid from healthy llamas</td>
<td>SR Van Amstel</td>
<td>Merial Limited, LLC</td>
<td>2/9/07</td>
<td>1/1</td>
<td>13,260</td>
</tr>
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</table>

* Total project funding
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Eight Veterinary Students Receive Special Recognition

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All faculty, staff, and students are invited to attend the free event, which will take place on Friday, June 22, from 9 am until 4 pm.

Funding Deadlines Drawing Near

Deadline Sponsor Program $ Amount URL
Cont. Elsa U. Pardee Foundation Start-up funds for new cancer investigators Up to 225,000 www.pardeefoundation.org
Apr. 1 American Cancer Society Basic, clinical, epidemiology 200,000 www.cancer.org
Apr. 1 National Canine Cancer Foundation Basic & clinical, high-impact, innovative cancer research in dogs 250,000 www.wearathecure.org
Apr. 1 Alpaca Research Foundation Health, husbandry, genetics, or fiber ~6,000 to 35,000 www.alpacaresearchfoundation.org
May 31 American Association of Bovine Practitioners 2nd-year veterinary student scholarships 1,500 www.aabp.org
Apr. 2 & 16 Morris Animal Foundation If full proposals requested 7,500 to 10,000 www.morrisanimalfoundation.org
May 15 AKC Canine Health Foundation If full proposals requested 12,000+ www.akcchf.org

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Windows Vista Statistical Software Incompatibility

Users of Microsoft’s new, updated operating system, Windows Vista, may encounter compatibility problems with some research software, including some versions of SAS and SPSS.

The newest SAS software, version 9.1.3, is not compatible with Vista, and SAS does not have a definitive scheduled release date. Even with 9.2, SAS will not run on most computers marketed to consumers (that is, home computers). However, the newer version of SAS should support business editions of Vista.

SPSS version 15.0 also lacks compatibility with Vista, and since a newer version has not been announced, software developers for SPSS plan to offer a free patch once the issues are resolved.

Although CVM computers will not make the Windows Vista transition anytime soon, researchers could be using the updated operating system on their own computers, and any new PCs will include Vista as the standard. Users of SAS or SPSS software may want to hold onto those 2003 and XP operating systems a bit longer.

CVM Receives Nearly $466,000 for Sponsored Projects Since December

Title Agency Start date Type $ Amount
The evaluation of SIS for surgical repair of heterotomy incisions at the time of cesarean delivery HS Adair Cook Biotech Inc. 2/15/07 Year 1 of 1 22,366
Validation of the use of the SmartPill capsule for measurement of transit time, pH, temperature, and luminal pressure in the gastrointestinal tract of horses FM Andrews Private industry 1/1/07 64,015
The efficacy of Seabuckthorn Liquid Supplement in prevention of gastric ulcers in horses FM Andrews Seabuck Equine, LLC 2/1/07 10,725
Improved diagnosis and monitoring of equine endocrine disorders N-Frank ACVIM 1/1/07 15,000
Molecular pathways that mediate genetic susceptibility to low dose ionizing radiation SA Kania UT-Dahleb/ORNL 2/15/07 22,206
Screening for antibodies to the 7th protein of feline coronavirus in cats for detection of persistent infection MA Kennedy Winn Feline Research 12/1/06 11,475
Characterize the hormone adiponectin in fields by determining cDNA sequence, mRNA expression, and molecular weight composition A. Lushby C. Kirk Nestle Pharmaceuticals 1/1/07 5,938
Expansion of the shelter population index for cats: Phase 2 of a multi-institutional study JC New Winn Feline Foundation & George Sydney and Phyllis Redmond Miller Trust 12/1/06 21,330*
T Regulatory Cells in HSV Immunity and Immunopathology BT Roux NIH 2/1/07 2/5 287,228
Hemostatic dressing KM Tobias DelRoyal Industries 2/12/07 1/1 7,105
Ivermectin levels in blood and cerebrospinal fluid from healthy llamas SR Van Amstel Merial Limited, LLC 2/9/07 1/1 13,260
* Total project funding

Rouse

Melissa Mustillo

Jennifer Bernard

Dr. Hayley Adams

Felix Lenz

Dr. Hayley Adams holding a South African lion
In compliance

Three Graduate Students Earn Travel Awards

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Amanda and Mugdha won the prestigious American Society of Biochemistry Molecular Biology Research Grant and the Federation of Student Chapters 2007 Graduate Student Travel Award. Nichelle received the esteemed ASPET/MARC Program Minority Graduate Student Travel Award from the American Society for Pharmacology and Experimental Therapeutics (ASPET) and the Federation of American Societies for Experimental Biology.

Amanda is an MS student working with Dr. Madhu Dhar. Mugdha Dhar and Nichelle are both working on PhDs with Dr. Seung Baek.

They will all be presenting posters of their work during the Apr. 28-May 2 meeting.

To be or not to be

Animal care and use, biosafety, environmental health and safety, human subjects, and radiation safety: If you do research at UT, you are aware of at least one, or perhaps several of these compliance entities. These are the areas of compliance that directly affect most researchers.

Often perceived as nuisances, the committees and compliance professionals supporting these areas keep the universities as low-risk and regulated environments that govern our ability to perform research. When there is failure in compliance oversight, breaches may result in unwanted inspections, audits, and fines to the university, as well as loss of accreditation and loss of investigator privilege.

In the future, finding current and future funding from external sources may also result from compliance breaches since both federal and private funding sources are placing greater emphasis on education and training to ensure the “responsible conduct of research.” We are aware that dramatic changes in the past few years have resulted in increased paperwork and accountability for investigators. All these changes have resulted from changes in regulatory guides, and all have been necessary. This trend will no doubt continue as laws and rules governing compliance continue to evolve.

Compliance is not going away, no matter how much we may wish it to. To ensure your work meets committee approval and is performed within the appropriate standards, please take advantage of the expertise provided by compliance professionals and committee chairs. In addition, our office of research at the CVM can be very helpful in directing investigators to proper resources. Contact information is also available through VeNet.

In Volume 2, Issue 1 of the journal, the CVM can be very helpful in directing investigators to proper resources. Contact information is also available through VeNet.

Tips for Friendly Figures

Communicate with color and shape, when possible.

Avoid using greens and reds together.

Use bright colors.

Avoid using red on a dark background.

In Fig. 1, a false cell figure as normal eyes size (adapted from Reference 1).

In Fig. 2, a false cell figure as color-blind eyes size (adapted from Reference 1).

An estimated 8% to 10% of the male population (less than 1% of females) has problems distinguishing between red and green. These problems can prevent some peer reviewers and readers in general from understanding the information being presented on the page.

In addition to computer-generated figures, fluorescent staining may present the color-blind reader with difficulties as well. "How to make figures and presentations that are friendly to color blind people available at: http://jfly.iam.u-tokyo.ac.jp/color/index.html.

Transactions that are friendly to color blind people are the areas of compliance that directly affect most researchers. Often perceived as nuisances, the committees and compliance professionals supporting these areas keep the universities as low-risk and regulated environments that govern our ability to perform research. If you do research at UT, you are aware of at least one, or perhaps several of these compliance entities. These are the areas of compliance that directly affect most researchers.

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Journal like JAMA, where color blindness is common, have the ability to perform research. When there is failure in compliance oversight, breaches may result in unwanted inspections, audits, and fines to the university, as well as loss of accreditation and loss of investigator privilege.

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