Discovery December 2007

Misty Bailey

Editor

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**The What’s and Why’s of Internal Grant Routing**

The Boston Globe reported in its November 2 issue that a Massachusetts educational program’s grant proposal was rejected outright because it was 46 minutes late being submitted via grants.gov. Repeated attempts by program leaders and phone calls by multiple senators could not change the minds of the US Department of Education, who refused to budge on the deadline. Despite claims by the submitting organization that they had tried to submit the entire day before the due date, the organization was informed 6 months later that its renewable grant would be halted.

This Boston Globe story serves as a good example of the importance of time management in preparing and submitting grants.

Once a PI decides to submit a grant application, he or she finds an opportunity for funding, follows the grant agency’s directions, and sends the application. That’s all there is to it, right? Not exactly. As we see with the Massachusetts program, that PI might have just wasted his or her most precious commodity: time.

A lot more goes into submitting a grant application than doing research, writing, and submitting. At least one week before the grant application is sent, the research coordinator (Debbie Hampstead) must submit the application for approval by both the department head and the associate dean for research.

In order to be approved internally, the application must contain a proposal routing form, a budget worksheet form, and a copy of the research proposal. The two forms are found at [www.vet.utk.edu/research/compliance_forms.shtml](http://www.vet.utk.edu/research/compliance_forms.shtml).

If the proposal is approved (and most of them are), the project is entered into a restricted university database and reviewed to ensure sponsor guidelines have been followed. At this stage, spelling errors or even inadvertent omissions are sometimes caught before mailing or sending the application electronically.

**Common mistakes of first-time grant writers:**

- Designating themselves as the applicant on grant budget paperwork

  If you apply for a grant as an employee of the university, the university is the applicant. You are doing research for the university using university facilities and staff along the way; therefore, any grant monies you apply for belong to the university. If a check comes in with your name on it, it must be returned to the agency, which then must process another check to the correct party—a time-consuming process that might delay your funding.

- Not reading carefully/following agency guidelines

  Sixty percent of proposals are rejected at first reading because of this reason. If the sponsor guidelines say they do not fund studies that involve euthanizing animals, and you plan to euthanize 12 in the first week of the study, the agency will flag your application as not meeting their criteria for funding. If the instructions say to limit the research plan to 10 pages and you include 12, that gives reviewers an easy way to exclude your application from further review.

These mistakes are more likely to be avoided by following the proposal routing process in place at the CVM. Submitting the proposal to the research coordinator too late, or not until after you’ve mailed the application, results in the proposal being filed under “insufficient review.” In extreme cases, this could lead to refusal to accept the funding. For example, what if a PI does not have rDNA approval or IACUC approval? If that approval never came, the investigator could not perform the work for which he or she had been paid and would have to refuse the award. The CVM administrators who approve proposals might be able to circumvent that situation.

To avoid a situation similar to that in the Boston Globe report, submit early! For complete information on the grant submission process, see [www.vet.utk.edu/research/info/pdf/PIGuide_FlowChart2.pdf](http://www.vet.utk.edu/research/info/pdf/PIGuide_FlowChart2.pdf).


Affymetrix Core Facility Offers Microarray Short Course

Looking for a wonderful holiday gift for a postdoc? How about the Microarray Technology and UT Microarray Database Applications short course being offered December 17 and 18 in M313 Walters Life Sciences Building?

On Monday, the course will cover the basics of microarray experiments such as expression of genetic information, software and applications, sample preparation, and experimental design considerations.

Tuesday’s class will involve the database: data display and quality, retrieval and analysis, and advanced analysis, including clustering, gene ontology, and pathway analysis.

The course is a total of five hours and is open to primary investigators and technicians, as well as post-docs. Class size is limited, so e-mail brekapal@utk.edu or affycore@utk.edu to enroll.

Don’t Let Your Disease Research Data Become Diseased

Just as laboratories need biosafety protocols, so does a computer need viral protection to prevent or correct unwanted contamination. A recent “Backdoor Trojan” circulating through CVM-associated computers was a difficult lesson in the importance of keeping anti-virus software updated and doing regular virus scans. Approximately 20 computers became infected with this virus, which provides others with remote access to the infected machine. That could mean that private information became less-than-private for a while.

Charles Lambrecht, computer operations manager, provides this four-step process for eliminating this particular virus on a PC:

1. Update your software and determine your McAfee anti-virus version. First, look at the system tray in the lower, right corner of the computer screen, and find the white and blue shield with a red “V” in the middle.

Place your cursor over the shield icon, and RIGHT click your mouse. Then left click on the “Update Now” option. Once updates are finished, click on the “Close” button.

To get the latest version, first RIGHT click on the shield icon and left click on “About VirusScan Enterprise.” If you have version 8.0 or earlier, it is time to update.

2. Clean your PC. Restart your computer and boot into Windows SAFE mode by pressing F8 DURING the black and white screens but BEFORE the color, starting Windows messages appear.

A menu will appear. Using the arrow keys, select “Safe Mode” and press Enter. Press Enter at the next question. Windows will start slowly!

Log in and click “Yes” on the screen asking if you want to be in safe mode.

Next, click on “start,” then “All Programs,” and choose the McAfee or Network Associates menu. Run an “On-Demand Scan.” If the scan removes/deletes/cleans anything, wait until the entire scan finishes, and then restart your computer and do the safe mode scan again.

3. If you are not running version 8.5, go to antivirus.utk.edu, and follow the instructions to download and install it. This software can be used on your home PC for free, too.

4. After installing McAfee 8.5, repeat step one to update the virus signature files. Then do step two. Repeat until McAfee doesn’t find anything. Reboot your computer, and log in normally.

To clean a memory stick/flash drive, do the following:

1. Temporarily disable the auto-run feature. Once McAfee is updated, you can use it to scan and clean a memory stick. What you DON’T want to do is have Windows automatically open the memory stick and show the files. This action will re-infect your PC!

HOLD DOWN the Shift key when you insert your memory stick, and Windows WON’T open a window.

2. Scan the memory stick. Once the memory stick is inserted and ready, right click on the McAfee shield and run an “On-Demand Scan” of your computer. It will clean the memory stick as well as re-scan the whole PC. This will take longer, but it will help if somehow the memory stick managed to re-infect your PC!

Schultz Article One of Most Accessed in Chem Res Toxicol

Of the 44 articles published in Chemical Research in Toxicology from July to September 2007, Dr. Terry Schultz’s article was one of the most accessed.

The article, entitled “Verification of the structural alerts for Michael Acceptors,” is co-authored by JW Yarbrough, RS Hunter, and AO Aptula. The most-accessed list is featured quarterly and is on the journal’s home page: pubs.acs.org/journals/crtoec/promo/most/most_accessed/index.html.

Funding Deadlines Drawing Near

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<tr>
<th>Deadline</th>
<th>Sponsor</th>
<th>Program</th>
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<tr>
<td>Dec. 14</td>
<td>American Institute of Cancer Research</td>
<td>Pls and post-docs</td>
<td>Up to 75,000/yr</td>
<td><a href="http://www.aicr.org">www.aicr.org</a></td>
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<tr>
<td>Dec. 15</td>
<td>American Association of Feline Practitioners</td>
<td>Feline medicine &amp; surgery</td>
<td>Up to 20,000</td>
<td><a href="http://www.aafponline.org">www.aafponline.org</a></td>
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<td>Jan. 9</td>
<td>United States Equestrian Foundation</td>
<td>Areas of special concern to show &amp; performance horses</td>
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<td>New R01s</td>
<td>Varies</td>
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<td>Feb. 16</td>
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<td>New R03s &amp; R21s</td>
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Thesis/Dissertation Workshops

Thursday, Jan. 31
5:30-7:00 pm

Friday, Feb. 1
9:30-11:00 am

Hodges Library Auditorium

*Note: Friday’s workshop is a repeat of Thursday’s workshop. No registration required.*
E-Journals

Have you ever needed to find the most current article on a specific topic but realized that library trip is probably not a good idea since it’s sleetling outside or it’s a lot later at night than you thought?

University libraries offer a substantial number of electronic journals, and the Pendergrass library subscribes to all English-language veterinary journals.

The E-journals list (linkserv.lib.utk.edu:9003/sfx/az/) gets updated more frequently than the catalog, so that list should be the first choice when searching. If unsuccessful using E-journals, try the catalog next. The browse search works best when looking for journals.

Once you find what you need, most journals have a search or browse feature that allows you to quickly find the article you want instead of potentially thumbing through an entire bound volume of the printed journal.

When the library is open, seek help if you can’t find a journal you’re looking for (974-7338).

Grad Student Accepts Post-Doc at Rochester

Pranita Sarangi, a PhD candidate in Dr. Barry Rouse’s lab, has accepted a post-doctoral research position under Dr. Minsoo Kim at the Center for Vaccine Biology and Immunology at the University of Rochester Medical Center in New York.

She plans to join the laboratory in mid March after finishing her degree in the Comparative and Experimental Medicine graduate program here.

Presentations

Cont. from p. 4

Animal Diseases held in Chicago, December 2-4. Other authors were CN Carter, J Riley, and J Smith.

He was also an author on a presentation by AD Haddow (other co-authors: UD Kitron, RR Gerhardt, DG Mead, and JK Moulton) entitled “Preliminary analysis of the spatial and temporal differences in cases of La Crosse encephalitis in Tennessee,” which was presented at the 39th Annual Conference of the Society of Vector Ecology in Springfield, IL, in September.

In addition, Dr. Odoi was co-author (along with J Riley, J Smith, R Stepusin, T Cattoi, and S McCollum) on a presentation by CN Carter. “Laboratory-based early animal disease detection utilizing a prospective space-time permutation scan statistic” was presented at the 13th International Symposium of the World Association of Veterinary Laboratory Diagnosticians, held in Melbourne, Australia, in November.

The following abstract was presented in Chicago by Dr. R Pierce at the American College of Veterinary Surgeons (ACVS) Symposium in October: “Post-operative complications of small colon enterolithiasis in 97 horses.”

Dr. HS Adair’s “Hyperbaric oxygen wound therapy” appears in the ACVS Symposium proceedings.

Giving three talks at the ACVS Symposium was Dr. K Tobias: “Why I use aemoid constrictors”; “Advanced facial reconstruction”; and “Portosystemic shunts.”

Drs. P Sura and Tobias also presented a poster at the conference entitled “Cholecystectomy for the treatment of gallbladder mucoceles in dogs: 25 cases (2003-2006).”

In addition, Dr. Sura presented “Ultraflex Nitinol stents for the correction of tracheal collapse in dogs,” on which Dr. DJ Krahwinkel was co-author.

Dr. LND Potgieter presented “Agents of agroterrorism” at the Idaho Bureau of Homeland Security on September 11.

At the American Association of Bovine Practitioners Annual Conference in Vancouver, Canada, in September, Dr. T Prado presented an abstract entitled “Evaluation of a modified surgical technique to correct urine pooling in cows.”

In October, Dr. Prado presented a series of talks on large and small animal reproduction at the VIII Congreso Nacional de Medicina Veterinaria [8th National Veterinary Medicine Conference] in Coronado, Panama.

At the Annual Scientific Meeting of the Association of Pharmaceutical Sciences, Drs. W Qu, C Eggler, and A Shukla presented the poster “Pharmacokinetics of fentanyl citrate after intravenous administration in dogs.”

Dr. D Rotstein traveled to Barbados in November to present a session on marine mammal pathology at the 4th Pan Commonwealth Veterinary Conference.

As part of UT’s Public Health Seminar series, Dr. S Thompson presented “Initiatives to protect agriculture & food sectors from terrorist and criminal acts” on September 13. She also presented “Response to an animal disaster—key issues” at the Tennessee Public Health Association in Nashville on November 1.


CVM Faculty Members Get $25,985 for Sponsored Projects Since October

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<td>SL McCain</td>
<td>American Association of Zoo Veterinarians</td>
<td>11/1/07</td>
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Recent Publications...


...And Presentations

At the 4th International Equine Conference on Laminitis and Diseases of the Foot, Dr. HS Adair presented “More pieces of the puzzle – laminitis research at the University of Tennessee.” The conference was held in West Palm Beach, FL, in November.

Dr. M Allender gave an oral presentation entitled “Health and disease in the conservation of the Eastern Box Turtle, Terrapene carolina carolina” at the 3rd Box Turtle Conservation Workshop, Patuxent National Wildlife Research Center, Laurel, MD, in November.

At October’s Annual Conference of the American Association of Zoo Veterinarians in Knoxville, Drs. M Allender, M Mitchell, M Dreslik, C Phillips, and V Beasley had a poster entitled “Characterizing agreement of hemagglutination inhibition assays using four different Ophidian Paramyxovirus isolates in wild Eastern Massasauga Rattlesnakes (Sistrurus catenatus catenatus) from Illinois.”

At that same conference, Drs. M Allender, J Schumacher, J Miliam, R George, S Cox, and T Martin-Jimenez presented “Pharmacokinetics of iraconazole in the American Horseshoe Crab (Limulus polyphemus).”

Also at the AAZV conference, Dr. A Legendre and M Bailey presented a scientific writing session.

Drs. D Rotstein and C Cross and R Archibald presented a marine mammal necropsy wet lab at the AAZV meeting.

At the 48th International Symposium of the Korean Society of Life Science, Dr. SJ Baek was invited to present “NAG-1’s role in anti-tumorigenesis and anti-obesity.” The presentation was in Kwangju, Korea, in October.

Dr. Baek also presented at the Harry and Elsa Jiler-American Cancer Society 2007 Professors Meeting in Naples, FL, in November. His invited presentation was entitled “NUANCE, a potential novel oncogene is suppressed by nonsteroidal anti-inflammatory drugs in human colorectal cancer cells.”

Presenting “Inflammatory bowel disease in a pancake tortoise” at the 14th Annual CL Davis Zoo & Wildlife Pathology Workshop on October 21 was Dr. L Craig.

At the same meeting, Dr. S Newman presented “A case of chimpanzee hepatocellular carcinoma.”

Dr. Craig also presented at the 56th Annual Meeting of the American College of Veterinary Pathologists, in Savannah, GA, on November 11. That presentation was entitled “Feline eosinophilic sclerosing fibroplasia.”

Additionally, Dr. S. Newman presented “A case of canine pyothorax” during the GI session of the ACVP conference.

In October, Dr. C Cross presented “Domicid oral research” for the Oceans and Human Health Initiative in Ann Arbor, MI.

Drs. C Egger, W Qu, and A Shukla presented a poster entitled “Sustained release of injectable fentanyl formulation in dogs” at the International Veterinary Association of Pain Management meeting, Montreal, Quebec, in November.

Dr. Egger also presented an abstract at the New Orleans American College of Veterinary Anesthesiologists meeting in September. Other authors were Drs. MA Stevenson, EH Hofmeister, G Touzot-Jourde, and B Rohrbach.

The abstract was titled “Efficacy of pre-anesthetic intra-muscular administration of ephedrine to cats and dogs for prevention of anesthesia-induced hypotension.”

At that same meeting, the following abstracts were presented: Drs. P Quieiroz-Castro, CM Egger, B Rohrbach, and T Doherty– “Effects of buprenorphine on isoﬂuran minimum alveolar concentration in dogs”; Drs. R Seddighni, CM Egger, B Rohrbach, and T Doherty– “Effects of low and high dose tramadol on the sevoflurane minimum alveolar concentration”; and Drs. J Wilson, T Doherty, P Castro, and C Egger– “Effect of lidocaine and ketamine on the minimum alveolar concentration of sevoflurane in dogs.”


Dr. F Hopkins presented “Overview of Department of Homeland Security course on agriculture and vulnerability assessment” at the Alabama Association for Food Protection Annual Meeting in Birmingham on October 24.

Giving an invited presentation entitled “Update on diagnostics for FIP” was Dr. M Kennedy. She presented at an international summit on feline infectious peritonitis delivered by IDEXX Laboratories in Portland, ME, in October.

Dr. C Kirk gave 8 lecture hours on veterinary nutrition at the North Carolina Veterinary Conference in November. At the Annual East Tennessee Veterinary Medical Association meeting in October, she presented two lectures on food toxicity and canine obesity. In addition, she presented a presentation on feline nutrition.

At the Wild West Veterinary Conference in Reno, NV, in October, Dr. DJ Krahankel was invited to present 6 hours of clinical seminars entitled “Wound care and reconstruction surgery.”

Drs. I Lane and J Bartges presented a 10-hour course in postgraduate medicine (nephrology and urology) at Auburn University College of Veterinary Medicine (AVUCM) in Alabama.

Dr. Lane also presented a seminar titled “How people learn: Implications for instruction” to AVUCM faculty.

In October, at the Associazione Italiana Veterinari Piccoli Animali [Italian Association of Small Animal Veterinarians] National Congress on Neurology, Dr. K Marioni-Henry presented on diseases of the brain and spinal cord tumors of the cat. The meeting was held in Modena, Italy, in October.

Dr. A Odoi presented “Prospective space-time permutations scan statistics for early outbreak detection: application on MRSL in Kentucky” at the 88th Annual Meeting of the Conference of Research Workers in Veterinary Pathology.

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, mbailley@utk.edu or 865-974-7446.

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