And Presentations

On June 27, HS Adair gave seven presentations ranging from equine metabolic diseases and anaesthesia to rehabilitation and hyperbaric oxygen therapy at the Alabama Veterinary Medical Association Annual Convention in Sandestin, FL.

FM Andrews gave an oral presentation on “The evaluation of the wireless capsule (SmartPill) for measuring gastric emptying and GI transit in normal dogs” at the American College of Veterinary Internal Medicine (ACVIM) forum in June in San Antonio, TX. R DeNovo, R Reese, S Elliott, T Meyers, O Barthel, M Lyman, and G Daniel were also authors.

Also at the ACVIM forum, Andrews presented “Vertebrat concretions in blood and cerebrospinal fluid following intravenous administration to healthy lambs,” which was prepared by S van Amstel and co-authored by A Portmann, S Cox, T Doherty, and S Newman.

Three posters presented at ACVIM were as follows: “In vitro effects of lactulose on bioelectric properties of equine nonglandular mucosa” (R Buchanan, F Andrews, S Elliott, R Al Jasim, C McGowan, A Saxton); “Use of a wireless capsule, SmartPill, to measure gastrointestinal pH, pressure, and transit time in a horse” (S Elliott, R Reese, R Denovo, D Barthel, M Lyman, D Daniel, F Andrews); “The effects of seabuckthorn extract in the treatment and prevention of gastric ulcers” (R Reese, F Andrews, S Elliott, A Saxton, RB McMullin).

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Second Annual Comparative & Experimental Medicine Research Symposium

The University of Tennessee College of Veterinary Medicine

CVM Well Represented in Research Symposium

In this issue

1. pCEM research symposium; 2. Image manipulation; 3. Intellectual property; Thompson on committee; NIH electronic submission, Endnote; Funding deadlines; 4. Wang report, public health relevance statement, NIH boost, Lusby award, CEM students; 5. Sana award, grant awards; 6. Publications & presentations

• Award of Achievement
  - Research Associate Category
  - Graduate Student Category

Outstanding Presentation Award

Aarthi Sundararajan, Microbiology

Awards of Excellence

Research Associate Category

Raul Almeida, Animal Science

Awards of Achievement

Research Associate Category

Hungr-Yi Wu, Pathobiology/Microbiology

Awards of Achievement

Graduate Student Category

Colin Clanton, Anesthesiology

Marcy Souza, Small Animal Clinical Sciences

Awards of Excellence

Intern/Resident Category

Jonathan Phipps, Graduate School of Medicine

Awards of Achievement

Graduate Student Category

Hye Mee Joo, Microbiology

Ferenc Toth, Large Animal Clinical Sciences

Meghdha Sukthankar, Pathobiology

Katherine Stenske, Small Animal Clinical Sciences

• Award(s) of Excellence

Emily Blevins, Animal Physiology

Lois Steinberg, Pathology

Katherine Stenske, Small Animal Clinical Sciences

• Award(s) of Achievement

Jonathan Phipps, Small Animal Clinical Sciences

Second Annual Comparative & Experimental Medicine Research Symposium

PAMELA: E181073-003-002-08

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Research at the University of Tennessee College of Veterinary Medicine

EIGHTTEEN STUDENTS FROM THE COMPARATIVE AND EXPERIMENTAL MEDICINE (CEM) GRADUATE PROGRAM PRESENTED TALKS AT THIS YEAR’S CEM RESEARCH SYMPOSIUM, ALONG WITH ONE VETERINARY STUDENT, TWO RESEARCH ASSISTANT PROFESSORS, FIVE RESEARCH ASSOCIATES, AND THREE INTERNS/RESIDENTS. THESE 29 REPRESENTATIVES WERE AMONG 60 NEW SCIENTISTS TO PRESENT AT THE 2008 SYMPOSIUM.

THE SYMPOSIUM WAS DESIGNED TO PROVIDE NEW INVESTIGATORS WITH MEETING-FORMAT EXPERIENCE WITH 10-MINUTE PRESENTATIONS, THE MOST DIFFICULT LENGTH OF FORMAL SCIENTIFIC PRESENTATIONS, ACCORDING TO DR. ROBERT MOORE, DIRECTOR OF THE CEM PROGRAM. “PRESENTERS OBVIOUSLY DEVOTED A LOT OF TIME AND EFFORT TO PREPARING THEIR TALKS,” SAID MOORE. “I WAS TRULY IMPRESSED BY THE HIGH QUALITY OF THEIR RESEARCH THAT WAS PRESENTED THROUGHOUT THE DAY.”

THE SYMPOSIUM BROUGHT TOGETHER RESEARCHERS FROM 16 DIFFERENT DEPARTMENTS ACROSS THREE UT-KNOXVILLE CAMPUSES FOR A DAY-LONG EVENT THAT OPENED WITH INFLUENZA VIRUS EXPERT ROBERT G. WEBSTER, PHD, FRSS, AND CULMINATED WITH AN AWARDS BANQUET.

THE LIST OF AWARDS CAN BE FOUND AT RIGHT. PRESENTERS WITH AWARDS AT THE EXCELLENCE AND ACHIEVEMENT LEVELS WILL RECEIVE $750 AND $500, RESPECTIVELY, IN TRAVEL REIMBURSEMENT FUNDS TO ATTEND SCIENTIFIC MEETINGS. ONE OUTSTANDING PRESENTER SCORED $2,000.
Journals Using Software to Detect Image Manipulation Not Visible to Eye

A new software tool called Riog is being offered by some journals to determine acceptable manipulation limits for images submitted with manuscripts.

The service was discussed recently by a panel at the Council of Science Editors meeting in Vancouver. Dana Compton, production manager for the Proceedings of the National Academy of Sciences (PNAS), explained that Riog is being used to scan all incoming images at PNAS. If the software flags an image as potentially manipulated, the service delivers an email to the journal, where the trained editors decide whether the manipulation is acceptable.

Compton explained that most image manipulation is done honestly by scientists who want to improve the quality of the image, such as adjusting the contrast to better highlight features. Most adjustments like these are acceptable. However, adjusting the contrast too much can create what's known as “absorption” in the white, which is usually unacceptable because it hides parts of the image that may be important to its interpretation.

In the case of image manipulation and the difficulty of detecting it without software help are shown in Fig. 1. The software works on the images and marks any potentially manipulated regions. It also picks up manipulation from Photoshop (used in Fig. 1B), which has tools that leave behind “fingerprints.” The software does have limits: it cannot detect plagiarized figures, mirrored images, or cropped images.

If images are found to have unacceptable manipulation, a representative from PNAS contacts the author to resolve the matter. The journal may also provide manipulation information to the agency funding the research.

To avoid being flagged, Chris Everett, art director at Cadmus, which developed the software, suggests documenting the types of files saved when adjusting an image. He recommends recording the software used and saving intermediate versions. However, he warns that re-saving JPG files multiple times can cause false flagging of images because of the amount of compression resulting each time the JPG is saved. Martin also recommends providing image manipulation information in the legend to the figure.


Presentations

presses obesity and inflammation from p. 6

J Bernard presented the poster “Detection of coronal virus infection in cheetahs (Acinonyx jubatus) using real-time polymerase chain reaction assay and serology” at the Morris Animal Foundation annual meeting in Philadelphia. Those present at the meeting included animal health care professionals, veterinary researchers, and veterinary students.

S Kania and D Beims were invited to present a joint meeting with the American Veterinary Medical Association in Philadelphia.

M Dhar presented “Synovial myxoma in a dog.” at the Southeastern Veterinary Pathology Conference in May in Tallahassee, FL. Craig presented “Synovial myxoma in a dog.”

S J New wrote an editorial on “Intraocular manipulation” at the Veterinary Ophthalmology Conference in San Francisco in June. It was M Dhar’s talk. His talk was “Ratino” technology reveals a novel target for obesity and diabetes.”

Dhar was also invited to speak at the biotechnology company Metabolex in Hayward, CA, where she spoke on the ATPIases in obesity and diabetes in June.

N Frank presented “Equine metabolic syndrome: diagnosis and management” at the Department of Veterinary Science, Equine Diagnostic and Research Seminar at the Gluck Centre in Lexington, KY, on June 26.

At the Veterinary Ophthalmology Conference meeting Apr. 15, S Heath presented “MRI basic principles and Applications of MRI in small animals.”

On June 10, Hecht presented “MRI basic principles and applications” and “MRI at UCVM” at the Hamilton County Veterinary Medical Association meeting in Chattanooga.

S Kania and D Beims were invited to present a joint meeting with the American Veterinary Medical Association in Philadelphia.

M Dhar presented “Synovial myxoma in a dog.”


Presenting “Influence of gender and sexual orientation status on feline adiponectin” at the AVCA meeting was AL Lusby. CA Kirk and JW Bartges were also authors on the poster at the AVCA meeting in June.

K Tobias presented “Methicillin resistant Staphylococcal infections and “Pelvic ostectomy: a case series” at the Southern Veterinary Conference in June.

I Lane, E Strand, M Sims, and N Howell’s poster, “Our professional responsibility in clinical competency: the role of quality clinical teaching,” was presented at the Educational Symposium and Annual Meeting of the Association of American Veterinary Medical Colleges.

At the Experimental Biology (EB) meeting in San Diego in April, SH Lee reported that “PcKR/ERK-dependent pathway in human breast cancer cells.” Other authors were JH Bahn, CK Choi, NC Whitlock, AE English, S Safe, and SJ Baek.

Also at the EB meeting, M Sukhantkhan presented “Green tea catechin EGCG suppresses NUTD6 (nudix [nucleoside diphosphate linked moiety Xi]-type motif 6) expression in human colorectal cancer.” M Cekanova and SJ Baek were also authors.

Discovery: Research at the University of Tennessee College of Veterinary Medicine (2008) 3.2


Upham BL, Blaha L, Babka P, Park JS. Sura Earns National Research Recognition

The year’s Phi Zeta Research Award for Most Outstanding Manuscript in the Clinical Sciences category belongs to Small Animal Clinical Sciences assistant professor Dr. Patri- cia Sura. The national award is given annually to one and only one basic and one clinical science manuscript. Manuscripts were selected based on study originality, scientific significance, and quality, as well as clarity of writing and illustrations. Sura’s winning-paper was titled “Two complementary microbiologic methods for detection of porocysticous pathogens in dogs.”

PPAR-gamma ligands in colorectal cancer

Gene alteration by NSAID’s

Coronavirus RNA replication

Characterization of P-type ATPase, an integral membrane component suppresses posttranslational expres- sion of a cigarette smoke prevalent polycyclic aromatic hydrocarbons.

Bioluminescent assay for DNA and RNA quantitation

Immune response to viral interleukin 10 in gamma heparus-asis-ulcerated black bear

Bisulphmate assay for DNA and RNA quantitation

Development of clinically useful methods of body composition assessment to enhancement weight loss in overweight patients.

The impact of visual cues associate with feed bowl and scoop size on food portions offered to dogs by their owners


Dept of Homeland Security MOST 332: Agriculture and food vulnerability assessment training course

MOST 332: Agriculture and food vulnerability assessment training course

The role of the new neta cleavage in Allata formation

UCTVCM Investigators Earn $1,413,350 for Sponsored Projects Since March

Title

PT Agency Start Type $ Amount

PPAR-gamma ligands in colorectal cancer

SJ Baek NH 6/1/08 Y 3 of 5 199,929

Gene alteration by NSAID’s

American Cancer Society 7/1/08 N3 180,000

Coronavirus RNA replication

DA Brian NIH 6/1/08 N 355,750

Characterization of P-type ATPase, an integral membrane component suppresses posttranslational expres- sion of a cigarette smoke prevalent polycyclic aromatic hydrocarbons.

Bioluminescent assay for DNA and RNA quantitation

KA Sanka Montana Animal Foundation 5/1/08 N 12,960

Bisulphmate assay for DNA and RNA quantitation

KA Sanka Industry (private) 5/1/08 N 25,344

Development of clinically useful methods of body composition assessment to enhancement weight loss in overweight patients.

CA Kirk NIH-Fed Nutrition 4/28/08 N 134,114

The impact of visual cues associate with feed bowl and scoop size on food portions offered to dogs by their owners

AL Lusby National Poultry Pat Care 1/1/08 N 5,741


BD Rostein See title 4/1/08 N 14 25,760

Dept of Homeland Security MOST 332: Agriculture and food vulnerability assessment training course

SR Thompson South Central PA Task Force 2/28/08 N 25,223

MOST 332: Agriculture and food vulnerability assessment training course

SR Thompson Regents of New Mexico State University 2/28/08 N 25,224

The role of the new neta cleavage in Allata formation

X Xu NIH 6/1/08 N 25 291,305


Did you know that the discoveries you make at the University of Tennessee have the potential to turn into revenue for your department, the College of Veterinary Medicine, and you, personally? With the help of the University of Tennessee Research Foundation (UTRF), UT researchers can protect their intellectual property, which can then be licensed to companies for the development of new or improved products and services for the marketplace. Once licensed, the licensing terms frequently result in additional funds to departments, colleges, and individuals who were the originators of the new discoveries. But did you know that these relationships often result in additional research funding for the inventor’s lab?

Here are just a few recent examples:
- Drs. Neal Schrick and Lannett Edwards have attracted the interest of a private investment group to develop and commercialize their ongoing work in the area of embryo development and survival. The licenses to the intellectual property and related research agreement have generated nearly $3 million in research funding and license revenue over the past 3 years.
- A research group that includes Dr. Shige Eda and Cathy Scott has developed a new detection assay for Johne’s disease, a devastating bacterial infection in cattle and other ruminant animals. Through a research and option agreement with the potential licensee, the investigators have been working to develop a commercial version of the test, and the relationship may result in an ongoing research and development arrangement.
- Professors from the College of Engineering have developed a stretchable fabric that prevents diaper leakage. The technology was licensed by Tredegar Film Products and has been used in over 20 billion diapers worldwide. This project has resulted in licensing revenue as well as additional research funding for the inventors.

To learn more about how to protect your intellectual property and generate new funding, contact Stacey Patterson at UTRF: sspatter@utk.edu; 974-0140. You can also visit the Web site at http://utrf.tennessee.edu.

Thompson Part of Steering Committee for Animal Health Emergencies

Dr. Sharon Thompson is part of a committee to provide initial feedback and support for developing an animal health emergencies draft framework that will be presented to a homeland security technical working group later this year.

The Federal Emergency Management Agency oversees the project, which is focused on defining preparedness and revising the “Target Capabilities List,” a publication that describes the capabilities needed to achieve emergency preparedness at local through national levels.

EndNote Download Available FREE Thanks to UT License

EndNote Desktop is now a free download to all UT students and staff through the UT Libraries and the Office of Information Technology. Previously, the program had to be either purchased individually for about $250 or used (with limitations) via the Web.

For writers who frequently use the same references, EndNote saves an enormous amount of time that would be spent on organizing and formatting those references.

To download EndNote Desktop, enter your UT NetID and password at https://web.dii.utk.edu/softwaredistribution.
Anticancer Molecular Oncology Report Featured

The research concept behind Dr. Nalin Siriwardhana and Dr. Hwa-Chain Robert Wang’s pre-cancer prevention manuscript was featured on the cover of Molecular Carcinogenesis in May.

The article outlines a line of research within the Anticancer Molecular Oncology Laboratory at UTCVM: a cellular model in which human breast epithelial cells are exposed to carcinogens and green tea catechins (GTC) to show the ability of green tea to prevent cancer.

Transformation of breast epithelial cells from non-cancerous to pre-cancerous to cancerous occurs over a number of years and results from multiple environmental factors that affect multiple cellular processes. For these reasons, this type of cancer is difficult to emulate in the laboratory and thus difficult to study. However, Wang’s research team uses human breast epithelial cells exposed to picomolar concentrations of B[a]P, a cancer-causing substance found in tobacco, the environment, and certain dietary chemicals. Using picomolar concentrations more accurately mimics the long-term, gradual exposure to small amounts of carcinogens people experience every day.

The cellular model developed in Wang’s laboratory shows that these cells develop distinct characteristics on the way to becoming cancerous. Furthermore, the model shows that biological amounts of GTC inhibit pre-cancer formation in these cells. Therefore, this model is capable of serving as a way to identify other agents that might prevent cancerous progression of human breast epithelial cells.

Full details of the article are found in “Publications” on p. 5.

Public Health Relevance Project Narrative
A Confusing but Critical Component of the NIH Grant Application

The May 2005 addition of the project narrative to the NIH grant application came with minimal explanation: “Using no more than two or three sentences, describe the relevance of this research to public health.” And do this in plain language, too.

With less guidance comes greater freedom but also the potential for greater confusion. If a grant writer has not read the instructional description for the project narrative, it can turn into a lay abstract with no mention of pubic health, much less its relevance in that particular project.

Even if one has read the instructions, to satisfy the narrative requirement, it is tempting to write, “This project is relevant to public health in that it will benefit the whole of society.” However, with appropriated space of only “two or three sentences,” it seems wasteful to spend one of those sentences on a circular definition, i.e., the project is relevant to public health because it will benefit [insert definition of public health].

One way to start thinking about how to write an effective project narrative is to consider the audience. The National Institutes of Health use these statements to analyze portfolios, to identify research highlights to Congress, and to make the importance of the research clear to the public.

Therefore, the statement should be accessible to non-scientists, but it should also include precise word choice to avoid becoming an empty statement. For biomedical researchers, stating the long-term goal of the research might be the best solution. A better first sentence, therefore, might be this: “Determining whether epicatechins found in dark chocolate prevent cholesterol from gathering in the arteries could result in dietary recommendations to reduce the risk of blood clots and clogged arteries, which affect about 35% of American adults.”

This sentence uses language accessible to a lay audience, and its relevance to public health is specific and clear.

Lusby Wins ACVIM Best Nutrition Presentation

Dr. Angela Lusby, CEM graduate student and small animal nutrition resident, was honored at the American College of Veterinary Internal Medicine Forum with Best Oral Presentation in the nutrition abstract category, sponsored by the American College of Veterinary Nutritionists. See “Presentations” for full details.

NIH May See Jump in Government Allocations

The Chronicle of Higher Education reported June 25 that the 2009 budget for the National Institutes of Health (NIH) may see its first significant increase in 6 years.

The Senate drafted a bill that would increase NIH funds by just over $1 billion, likely increasing the NIH funding success rate, which was reported to be around 22% (for all grants) for the 2008 fiscal year. This rate is up only slightly from its 2006 low; in comparison, in 1998, the funding rate was around 31% and rising.

Although the next fiscal year will not begin until October 1, this is promising news about what the final budget might look like come fall.

Further reading


Welcome to New CEM Students and Congratulations to Recent Graduates

Both Amanda Peretich (MS, mentor Madhu Dhar) and Pranita Sarangi (PhD, Barry Rouse) graduated from the Comparative and Experimental Medicine (CEM) program in the spring. Peretich is now an adjunct chemistry instructor for South College and will be teaching biology and chemistry at Karns High School this fall. Sarangi took a post-doc position at the University of Rochester.

Nine CEM students have joined the program this year. New spring students were Sarah Elliott (MS, mentor Nicholas Frank), Beth Hamper (PhD, Joseph Bartges), Yarong Liu (PhD, Xuemin Xu), and Samar Solyman (PhD, Stephen Kania).

Joining the program in the summer were Sarah Hurst (MS, Dhar) and Sachin Mulik (PhD, Rouse), and working toward PhDs in the fall will be Dan Chen (Xu), Ashley Pedigo (Agricola Odoi), and Elizabeth Tadros (Frank).
Journaling Using Software to Detect Image Manipulation Not Visible to Eye

A new software tool called Rigour is being developed by some journalists to detect acceptable manipulation limits for images submitted with manuscripts.

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Compton stressed that most image manipulation is done honestly by scientists who want to improve the quality of the image, although some authors adjust the contrast to better show features. Most adjustments like this are acceptable. However, adjusting the contrast too much can create what is known as “absence of data” or “whiteout,” which is usually unacceptable because it hides parts of the image that may be important to its interpretation.

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If images are found to have unacceptable manipulation, a representative from PNAS contacts the author to resolve the matter. The journal may also provide manipulation information to the agency funding the research.

To avoid being flagged, Chris Everett, an art director at Caltech, which developed the Rigour software, suggests documenting the types of files saved when adjusting an image. He recommends recording the software used and saving intermediate versions. However, he warns that re-saving JPG files multiple times can cause false flagging of images because of the amount of compression resulting each time the JPG is saved. Martin also recommends providing image manipulation information in the legends or protocols.


Presentation: press release and obesity from p. 6

J Bernard presented the poster “Detection of feline coronavirus infection in cheetahs (Acinonyx jubatus) using real-time polymerase chain reaction assay and serology” at the Morris Animal Foundation annual meeting held in San Francisco in June. He also presented a poster at the American Veterinary Medical Association meeting in Philadelphia. Kania S and D Bemis were invited to present a poster at a meeting held in Malmö, Sweden. Their poster was entitled “Evaluation of interpretative breakpoint recommendation for detection of feline coronavirus in countries that have confirmed cases of pseudomutant isolates from dogs in the United States.”

J Lane, E Strand, M Sims, and N Howell will present a poster: “Our professional responsibility in clinical competency: the role of quality clinical teaching,” was presented at the Educational Symposium and Annual Meeting of the Association of American Veterinary Medical Colleges.

At the Experimental Biology (EB) meeting in San Diego in April, SH Lee and JH Chang found that the enzyme lysozyme can increase EGR1 expression through ERK signaling and promote stem cell self-renewal in cancer cells. Other authors were JH Bahn, CK Choi, NC Whitlock, AE English, S Safe, and SJ Baek.

Also at the EB meeting, M Sukhthankar presented “Green tea catechin EGCG suppresses NUDT6 (nudix (nucleoside diphosphate linked moiety X-type motif 6) expression in human colorectal cancer.” M Cokanova and SJ Baek were also authors.

In June, JH Liggitt presented, too, at the EB meeting. His presentation, “Nutrient, a potential novel oncogene, is suppressed by non-steroidal anti-inflammatory drugs in human colorectal cancer cells,” was co-authored by CK Choi, RL Donnell, T English, KD Kihm, and SJ Baek.

Presenting “Influence of gender and sexual vibration status on feline adenocarcinoma” at the AVCOM conference was AL Lusby. CA Kirk and JW Bartges were also authors on the poster at this year’s AVCOM conference in San Diego.

K Tobias presented “Histogenetin resistant Staphylococcal infections and ‘Pelvic osteocystoma: a case series’ at the Society of Veterinary Soft Cell Tumor’s Annual Meeting in Albuquerque, NM, in June. At a Workshop for the Dutch Society for Veterinary Soft Tissue Surgery, Tobias gave 12 lectures and one laboratory on basic and advanced soft tissue surgery in April. The poster of J Wimalasena, R Fernando, T Schwindt, M Sukhthankar, SJ Baek, and A Strom, entitled ‘Estrogen receptor beta (ERβ) expression results in down regulation of key cell cycle and cell death signaling molecules in breast and colon cancer cells,’ was presented at the American Association for Cancer Research Meeting held in San Diego.

Discovery: Research at the University of Tennessee College of Medicine (2008) 3.2

UTCVM Investigators Earn $1,413,350 for Sponsored Projects Since March

Sura Earns National Research Recognition

Title

PI

Agency

Start

date

Type

Amount

PPAR-gamma ligands in colorectal cancer

SJ Baek

NIH

6/1/08

Yr 3 of 5

199,929

Gene alteration by NSAIDs

JH Liggitt

National Cancer Institute

7/1/08

2/3

180,000

Coronavirus RNA replication

DB Han

NIH

6/1/08

3/1

355,750

Characterization of P-type ATPase, an integral membrane protein

MS Dhar

NIH

1/1/08

1/1

12,960

Immune response to viral interphase 10 in gamma herpesvirus-infected black rhinoceros

SA Kania

Montana Animal Health

6/1/08

1/1

4,000

Bioluminescent assay for DNA and RNA quantitation

SA Kania

Industry (private)

6/1/08

1/1

25,344

Development of clinically useful methods of body composition assessment to enhance exercise effectiveness

CA Kirk

HHS Preventive Medicine

1/22/08

1/22

134,114

The impact of visual cues associated with feed bowl and scoop size on food portions offered to dogs by their owners

AL Lusby

Natural Products Pat Care

1/1/08

1/1

5,741


DB Rostein

Sea Life

1/1/08

1/1

14,760

Dept of Homeland Security MGT 332: Agriculture and food vulnerability

SR Thompson

South Central PA Task Force

6/20/08

3/20

25,223

MGT 352: Agriculture and food vulnerability assessment training course

SR Thompson

Regents of New Mexico State University

1/20/08

1/20

25,224

The role of the new zeta cleavage in ABeta formation

X Xu

NIH

6/1/08

2/5

291,305


Hill’s Pet Nutrition - 5/1/08

MS Dhar

NIH

4/1/08

2/5

291,305

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The award, selected based on study, originality, scientific significance, and quality, as well as clarity of writing and illustrations, Sura’s winning-paper award is titled “Two scrotic methods for detection of porosyntheticy in dogs.” (Dr.)


--- And Presentations ---

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FM Andrews gave an oral presentation on “The evaluation of the wireless capsule (SmartPill) for measuring gastric emptying and GI transit in normal dogs” at the American College of Veterinary Internal Medicine (ACVIM) forum in June in San Antonio, TX. R DeNovo, R Reese, S Elliott, T Meyers, D Barthe, M Lyman, and G Daniel were also authors.

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N Frank coordinated the Equine Endocrinology Special Interest Group at the ACVIM conference and presented two sessions: “Overview of insulin resistance and equine metabolic syndrome” and “Levithryrin sorbicide as a treatment for insulin resistance.” Frank was a co-author on “Increased adiposity in horses is associated with decreased insulin sensitivity, but unchanged inflammatory cytokine expression in subcutaneous adipose tissue” with R Carter, J McCutchen, A T Ramos, J Kelknap, and R Geor. In addition, F Toth presented “Urinary glucose concentrations during intravenous glucose tolerance tests in horses” (co-authors N Frank, K Perdue, R Geor, S Elliott, R Reese, CT Boston) at ACVIM.

At the 9th International Equine Colic Research Symposium in Liverpool, England, in June, Andrews gave a presentation entitled “In vitro effects of hydrochloric and lactid acids on biologic properties of equine gastric squamous mucosa.” Other authors were BR McMillan, F Andrews, and D Barthe.

--- Recent Publications ---


Loe SH, Cekanova M, Baek SJ. Multiple mechanisms are involved in 6-gingerol-induced cell cycle arrest and apoptosis in human colorectal cancer cells. Mol Carcinog. 2008;47:197-208.


The symposium was designed to provide new investigators with meeting-format experience with 10-minute presentations, the most difficult length of formal scientific presentations, according to Dr. Robert Moore, Director of the CEM program. "Presenters obviously devoted a lot of time and effort to preparing their talks," said Moore, "and they were truly impressed with the very high quality of research that was presented throughout the day."

The symposium brought together researchers from 16 different departments across pre-UT-Knoxville campuses for a day-long event that opened with influenza virus expert Robert G. Webster, PhD, PRS, and culminated with an awards banquet.

The list of awards can be found at right. Presenters with awards at the excellence and achievement levels will receive $750 and $500, respectively, in travel reimbursement to attend scientific meetings. One outstanding presenter scored higher than all others and earned $1,250.

--- Second Annual Comparative & Experimental Medicine Research Symposium ---

CVM Well Represented in Research Symposium

Eighteen students in the Comparative and Experimental Medicine (CEM) Graduate Program presented talks at this year’s CEM Research Symposium, along with one veterinary student, two research assistant professors, five research associates, and three interns/residents. These 29 representatives were among 60 new scientists to present at the 2008 CEM Research Symposium.

The symposium was to provide new investigators with meeting-format experience with 10-minute presentations, the most difficult length of formal scientific presentations, according to Dr. Robert Moore, Director of the CEM Program. “Presenters obviously devoted a lot of time and effort to preparing their talks," said Moore, "and they were truly impressed with the very high quality of research that was presented throughout the day."

The symposium brought together researchers from 16 different departments across pre-UT-Knoxville campuses for a day-long event that opened with influenza virus expert Robert G. Webster, PhD, PRS, and culminated with an awards banquet. The list of awards can be found at right. Presenters with awards at the excellence and achievement levels will receive $750 and $500, respectively, in travel reimbursement to attend scientific meetings. One outstanding presenter scored higher than all others and earned $1,250.

--- Outstanding Presentation Award ---

Aarthi Sundararajan, Microbiology

--- Award of Achievement Research Assistant Professor Category ---

* April Durant, Small Animal Clinical Sciences

--- Award of Excellence Research Associate Category ---

* Maria Prado, Animal Science/Large Animal Clinical Sciences

--- Award of Achievement Graduate Student Category ---

* Raul Almeida, Animal Science

--- Award of Excellence Interim/Resident Category ---

* Hung-Yi Wu, Pathobiology/Microbiology

--- Award of Excellence Graduate Student Category ---

* Cathy Scott, Forestry, Wildlife, & Fisheries

--- Awards of Achievement Grad Student Category ---

* Colin Clanton, Anesthesiology

--- Marcya Souza, Small Animal Clinical Sciences

--- Sharayan Searstawal, Microbiology

--- Robert Cissell, Pathobiology

--- Jonathan Phipps, Graduate School of Medicine

--- Hye Mee Joo, Microbiology

--- Ferenc Tőth, Large Animal Clinical Sciences

--- Mugtha Sukthankar, Pathobiology

--- Katherine Stenske, Small Animal Clinical Sciences

--- Publications & Presentations ---

POSTER SESSION — Jonathan Phipps. CVM graduate student abstract, describes his research to Dr. Madhu Dhar