Vol. 5, Issue 2
Fall 2010

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THE UNIVERSITY of TENNESSEE
INSTITUTE of AGRICULTURE
COLLEGE of VETERINARY MEDICINE

Knowledge DISCOVERY Compassion

UTCVM Stem Cell Group Attends 1st North American Veterinary Regenerative Medicine Conference

by Dr. Madhu Dhar

As part of the stem cell initiative here at UTCVM, four researchers obtained partial funding to attend the 1st North American Veterinary Regenerative Medicine Conference (NAVRM) held in Santa Ynez Valley, CA, March 5–6. Drs. **Madhu Dhar, Dennis Geiser**, and **Steve Adair** and Ms. **Nancy Neilsen** attended the conference, which was jointly organized by the University of California-Davis School of Veterinary Medicine, Alamo Pintado Equine Medical Center, and Rood and Riddle Equine Hospital.

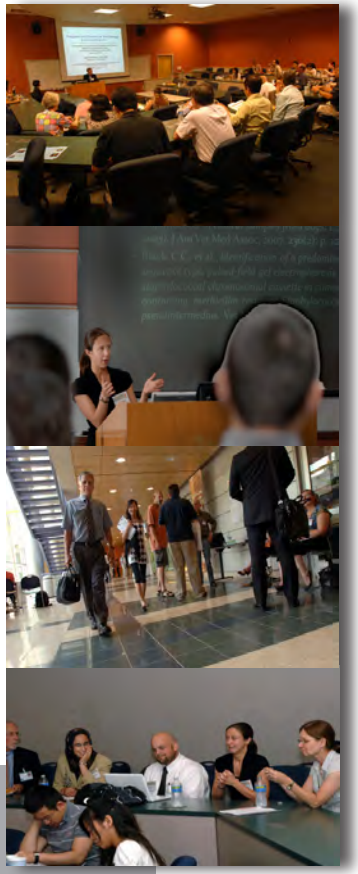
The meeting proved to be a remarkably successful gathering, bringing together more than 250 renowned scientists from the United States and Canada, all experts in regenerative medicine and cell therapy. Several open-forum roundtable discussions were held between researchers and practicing clinicians, covering a range of topics including clinical trial development, basic research and stem cell biology, regulatory affairs, and in-practice solutions.

The conference was moderated by Dr. Gregory Ferraro of the UC-Davis Center for Equine Health, and included presentations of the research work of Dr. Arnold Caplan of Case Western University, Dr. Dori Borjesson of the UC-Davis School of Veterinary Medicine, Dr. Thomas Koch of the University of Guelph, and Dr. Alan Nixon from Cornell University. ꕥ

Comparative & Experimental Medicine Research Symposium Travel Award Winners

On June 14 and 15, 81 new scientists from 20 different departments came together to present research talks. Of those 81 were 55 researchers from the Institute of Agriculture, and UTIA took seven of the eight awards given.

- *Phi Zeta Excellence in Animal Health Research Award:* **Laura Eberlein** (College of Veterinary Medicine)
- *Gamma Sigma Delta Excellence in Agricultural & Related Sciences Award*: **Katie Horm** (Food Science and Technology)
- *Research Assistant Professor Category, Award of Excellence*: **Seong-Ho Lee** (Pathobiology,)
- *Research Associate Category, Award of Excellence*: **Oudessa Kerro Dego** (Animal Science)
- *Intern/Resident Category, Award of Excellence:* **Karen Wells** (Graduate School of Medicine, Radiology)
- *Graduate Student Category*
  - *1st Place:* **Kusum Rathore** (Genome Science & Technology/Comparative Medicine)
  - *2nd Place:* **Nishan Kalupahana** (Obesity Research Center/Animal Science)
  - *3rd Place*: **Ashley Pedigo** (Comparative & Experimental Medicine) ꕥ



Top–bottom: Dr. Paul Erwin introduces Monday's lunch speaker, Dr. Asha Kallianpur; Laura Eberlein presents her research; Attendees visit exhibitor tables; Last-minute presentation preparations.

CEM Graduate Program Welcomes New Students, Says Goodbye to Graduates

Nine new graduate students entered the Comparative and Experimental Medicine program in 2010. Entering in spring was **Leon Richardson**, who is working on an MS with **Dr. Seung Joon Baek.** New summer students were **Mohammed Al-Wadei**, working with **Dr. Hildegard Schuller** on a PhD, and **Dr. Josh Rowe**, working on a PhD with **Dr. Robert Reed**.

For fall, the following students joined the program: **Dr. Eman Anis** (PhD, **Dr. Melissa Kennedy**), **Dr. Liesl Breickner** (PhD, **Dr. Madhu Dhar**), **Joel Brody** (PhD, **Dr. Schuller**) **Emily Martin** (MS, **Dr. Jonathan Wall**), **Kyung-Won Min** (PhD, **Dr. Baek**), and **Dr. Maryanne Murphy** (PhD, **Drs. Claudia Kirk, Joseph Bartges**, and **Angela Lusby**).

Graduating this year were **Dr. Chad Black** (PhD, "Methicillin resistance in *Staphylococcus pseudintermedius*," **Dr. Stephen Kania**) and **Dr. Robin Cissell** (PhD, "Malignant catarrhal fever viruses in Tennessee ruminants," **Dr. Robert Donnell**). ☙

Whitlock Earns Experimental Biology Travel Fellowship

PhD candidate **Nichelle Whitlock** presented an abstract at the Experimental Biology Meeting in Anaheim, CA, through an American Physiological Society/NIDDK Minority Travel Fellowship.

The fellowship was made possible by a grant from the National Institute of Diabetes and Digestive and Kidney Disease and covered airfare, registration, meals, and lodging.

To be considered in the worldwide competition, Whitlock submitted an abstract, a letter of intent, CV, and recommendation letter. Whitlock's mentor is **Dr. Seung Joon Baek**. For full details about the presentation, see *Recent Presentations.* ☙

Recent Publications

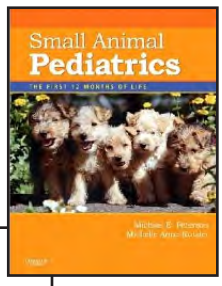
Allender MC, **Schumacher J,** George R, Milam J, **Odoi A.** The effects of short- and long-term hypoxia on hemolymph gas values in the American horseshoe crab (*Limulus polyphemus*) using a point-of-care analyzer. *J Zoo Wildl Med* 2010;41:193–200.

Cekanova M, Lee SH, McEntee MF, Baek SJ. MCC-555-induced NAG-1 expression is mediated in part by KLF4. *Eur J Pharmacol* 2010;637:30–7.

Choudhary S, Rathore K, Wang H-CR. FK228 and oncogenic H-Ras synergistically induce Mek1/2 and Nox-1 to generate reactive oxygen species for differential cell death. *Anticancer Drugs* 2001;21:831–840.

Close D, Patterson S, Ripp S, **Baek SJ**, Sanseverino J, Sayler G. Autonomous bioluminescent expression of the bacterial luciferase gene cassette (lux) in a mammalian cell line. *PLoS ONE* Aug 5(8): e12441.

Evans E, **Souza MJ**. Advanced diagnostic approaches and current management of internal disorders of select species (rodents, sugar gliders, hedgehogs). *Vet Clin North Am Exot Anim Pract* 2010;13:453–469.



Evermann J, **Kennedy MA.** Viral infections. In: Peterson ME, Kutzler MA, eds. *Small Animal Pediatrics: The First 12 Months of Life*. St. Louis:Elsevier Saunders;2010:119–129.

Frank N, Geor RJ, Bailey SR, Durham AE, Johnson PJ. Equine metabolic syndrome (ACVIM Concensus Statement). *J Vet Intern Med* 2010;24:467–475.

Fromberg LM, **Morandi F, Lusby AL.** What is your diagnosis? Nasal osteosarcoma. *J Am Vet Med Assoc* 2010;236:1179–1180.

Haffner JC, **Fecteau KA, Eiler H**, Tserendorj T, Hoffman RM, **Oliver JW**. Blood steroid concentration in domestic Mongolian horses. *J Vet Diagn Invest* 2010;22:537–543.

Hecht S, Lawson SM, **Lane IF, Sharp DE,** Daniel GB. 99mTc-DTPA diuretic renal scintigraphy in cats with nephroureterolithiasis. *J Feline Med Surgery* 2010;12:423–30.

Macready DM, Hecht S, Craig LE, Conklin GA. Magnetic resonance imaging features of the temporomandibular joint in normal dogs. *Vet Radiol Ultrasound* 2010;51:436–40.

Kennedy MA. A brief review of the basics of immunology: The innate and adaptive response. *Vet Clin N Am Sm Anim Pract* 2010;40:369–380.

Kennedy MA, ed. Immunology: Function Pathology, Diagnostics, and Modulation. *Vet Clin N Am Sm Anim Pract* 2010;40.

Kim CH, Kwon S, **Bahn JH**, Lee K, Jun S, Rack PD, **Baek SJ.** Effects of atmospheric non-thermal plasma on invasion of colorectal cancer cells. *Appl Phys Lett* 2010;96:243701.

Kim HJ, Ryu JH, Kim CH, Lim JW, Moon UY, Lee GH, Lee JG, **Baek SJ**, Yoon JH. ECG suppresses oxidative stress-induced MUC5AC overexpression by interaction with EGFR. *Am J Respir Cell Mol Biol* 2010;43:349–357.

Lane IF, Bogue EG. Faculty perspectives regarding the importance and place of nontechnical competencies in veterinary medical education. *J Am Vet Med Assoc* 2010;237:53–64.

Latorre R, Gil F, Climent S, López O, **Henry RW,** Ayala M, Ramírez G, Martínez F, Vázquez JM. *Color Atlas of Surgical Approaches to the Bones and Joints of the Dog and Cat.* Buenos Aires, Argentina: Inter-Médica;2010.

LeBlanc CJ, LeBlanc AK, Jones MM, Bartges JW, Kania SA. Evaluation of peripheral blood neutrophil function in tumor-bearing dogs. *Vet Clin Pathol* 2010;39:157–63.

Lee SH, Krisanapun C, **Baek SJ.** NSAID-activated gene-1 as a molecular target for capsaicin-induced apoptosis through a novel molecular mechanism involving GSK3beta, C/EBPbeta and ATF3. *Carcinogenesis* 2010;31:719–728.

McCain S, Allender M, **Ramsay E, Morandi F, Newkirk K**. Thyroid neoplasia in captive raccoons (*Procyon lotor*). *J Zoo Wildl Med* 2010;41:121–127.

Mendis-Handagama SMLC, Ariyaratne HBS, **Fecteau KA**, Grizzle

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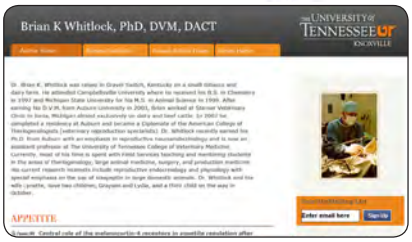
Research Resource Spotlight

SelectedWorks by Jana Redmond

An initiative of Trace, UT's digital repository, and a trademark of The Berkeley Electronic Press, SelectedWorks offers customizable author pages. An open-access showcase of faculty research, SelectedWorks (SW) allows easy upload of documents, including but not limited to previously published articles. SelectedWorks increases exposure to research with indexing by bepress over 160,000 papers strong.

The SW author page functions like a faculty Web page by providing access to your CV and publication list. With SW, updating the page is in your hands. UTCVM faculty member Dr. Marcy Souza likes the author control SW offers in comparison to standard faculty pages. Dr. Souza remarks, "My SelectedWorks page is set up as a link from my homepage. If anyone wants to look at an updated list of publications, they can follow the link to my SelectedWorks page." SelectedWorks tracks the number of downloads each item receives and reports this number via E-mail.

Dr. Shelley Newman sees SW as an effective means to inform students and colleagues, both in-house and beyond UTCVM, of her work and research interests. Dr. Newman offers, "In a visit you may only have 20 minutes with a potential residency candidate, but you can refer them to the SW page where they can see your area of research interest." SelectedWorks also provides Dr. Newman and her colleagues with access to research being done within their department and, more broadly, at UTCVM. The download reports enable Dr. Newman to better understand how integrated her work is in the bigger scheme of things. To view current UT author pages, visit *http://trace.tennessee.edu/sw_gallery.html*.



Dr. Brian Whitlock's SW page.

If you would like help setting up an SW author page, please contact Ann Viera at 974-9015 or *annviera@utk.edu*. You may also visit *http://bit.ly/TraceContributor* or attend one of the training sessions offered throughout the semester at Hodges Library. For questions or more information on sessions, please contact the Trace+SW liaison at *trace@utk.edu*. ☙

–Jana Redmond has a BA in English and is pursuing an MS in Information Science at UT

UTCVM Investigators Bring in Nearly $586,000 for Recent Sponsored Projects

Title	PI	Agency	Start	Type	$ Amount
Genomic evaluation of stone disease	J Bartges	Dalmatian Club of America	7/1/10	Yr 1/1	30,000
Private canine research	J Bartges	Private industry	7/15/10	1/1	41,925
Potential use of neutron imaging for biomedical and biological app	M Cekanova	UT-Battelle-ORNL	8/3/10	1/1	22,434
Role of estrogen receptor beta in breast cancer	M Cekanova	The Physician's Med Ed Res Fndn	9/1/10	1/1	10,000
The effect of Yunnan baiyao on hemostatis and platelet function in healthy dogs	C Egger	Am Assoc of Traditional Chinese Vet Med	6/1/10	1/1	7,030
Private laminitis research	N Frank	Private	4/1/10	1/1	41,490
An evaluation of repeat administration of tribromoethanol in C57BL/6NHsd mice	W Hill	Am Coll of Lab Animal Medicine	7/1/10	1/1	3,147
Bacteriophage in methicillin-resistant *Staphylococcus* from canine skin infections	S Kania	Morris Animal Foundation	6/1/10	1/1	4,000
Characterization of staphlococci isolated from bears in the Great Smoky Mountains National Park	S Kania	Discover Life in America	4/1/10	1/1	5,000
Canine study–private	C Kirk	Private industry	10/1/09	1/1	102,495
Feline study–private	C Kirk	Private industry	7/15/10	1/1	184,036
Tissue project–private	C Kirk	Private industry	7/15/10	1/1	81,055
Pilot evaluation of induced superficial radiation injury in porcine skin	A LeBlanc	Oak Ridge Instit for Sci and Ed	3/15/10	1/1	17,500
Efficacy of different anti-coccidia drugs on growth inhibition of developmental *Eimeria macusaniensis* in cell cultures	S Patton	Morris Animal Foundation	5/1/10	1/1	10,800
Regional animal health data warehousing and data mining system	A Odoi	Univ KY Res Fndn	3/1/10	1/1	20,000
Comparison of operator judgment and impedance measurements for Veress needle placement	J Whittemore	Comparative Gastroenterology Society	5/1/10	1/1	5,000

Recent Presentations

Akula M, Collier TL, Kabalka GW, Wall JS, Kennel SJ, Stuckey AC, **LeBlanc AK**. Microfluidic synthesis of [^{18}F]FLT. Poster presented at: Society of Nuclear Medicine Meeting; June 2010; Salt Lake City, UT.

Bahn JH, Lee SH, Baek SJ. Alternative splicing of Kruppel-like factor 4 plays a pivotal role in human tumorigenesis. Presented at: Experimental Biology (EB) Meeting; April 2010; Anaheim, CA.

Böttcher P, Armbrust L, Blond L, Bruehschwein A, Gavin PR, Gielen I, **Hecht S**, et al. Low-field magnetic resonance imaging of meniscal tears in dogs: Multiobserver diagnostic performance. Presentation at: European Veterinary Diagnostic Imaging (EVDI) Meeting; July 2010; Giessen, Germany.

Böttcher P, [. . .], **Hecht S**, et al. Low-field magnetic resonance imaging of meniscal tears in dogs: Multiobserver diagnostic performance. Presentation at: American College of Veterinary Radiology (ACVR) Annual Meeting; August 2010; Asheville, NC.

Brown RE, **Newman SJ, LeBlanc AK**. Expression of KIT in canine anal sac adenocarcinomas with tissue immunohistochemistry. Presented at: American College of Veterinary Internal Medicine (ACVIM) Annual Forum; June 2010; Anaheim, CA.

Buchanan B, **Frank N, Elliott SB**. Effects of season on adrenocorticotropin hormone concentrations in a group of horses located in the state of Texas. Poster presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Cekanova M. Imaging of naturally occurring tumors in dogs and cats using newly synthesized NSAIDs. Oral presentation at: National Cancer Institute/ American Association for Cancer Research Imaging Camp; June 2010; St. Louis, MO.

Cekanova M, [. . .], Sukhthankar M, Dharmawardhana S, Siriwardhana N, Moustaid-Moussa N, Strom A, **Baek S**, Wong Q, Zou M, **Donnell R,** Wimalasena J. Estrogen receptor beta controls a wide variety of functions in breast cancer cells. Poster presented at: American Association for Cancer Research (AACR) Annual Meeting; April 2010; Washington, DC.

Chameroy KA, Frank N, Elliott SB. Effects of levothyroxine sodium on body condition, blood measures of metabolic status, and glucose dynamics in horses with equine metabolic syndrome. Poster presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Chameroy KA, Frank N, Elliott SB. Effects of metformin hydrochloride on glucose dynamics during transition to grass paddocks in insulin-resistant horses. Presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Chameroy K, Frank N, Schuver A. Plasma glucagon-like peptide 1 (GLP-1) concentrations in response to an oral sugar test in healthy and insulin-resistant horses; Validation of an enzyme-linked immunosorbent assay (ELISA) for measurement of active glucagon-like peptide 1 (GLP-1) in equine plasma. Posters presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Choudhary S, Wang H-CR. Differential induction of reactive oxygen species by histone deacetylase inhibitors for mediating selective apoptosis of oncogenic H-Ras-expressing cells. Presented at: AACR Annual Meeting; April 19, 2010; Washington, DC.

Cox S, Martin-Jimenez T, Doherty T. Pharmacokinetics of intravenous and intramuscular tramadol in llamas. Presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Fernando R, **Cekanova M**, Woraratphoka J, Sukhthankar M, **Bahn J**, [. . .], Siriwardana N, Moustaid-Moussa N, Strom A, **Baek S**, Wong Q, Zou M, **Donnell R**, Wimalasena J. Bad is a multifunctional protein in breast cancer cells. Poster presented at: AACR Annual Meeting; April 2010; Washington, DC.

Galyon GD, LeBlanc AK. Identification and management of multiple migrating thorn foreign bodies in a dog using ^{18}FDG–PET/CT: Technician case report session. Presented at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Frank L, Mullins R, **Rohrbach B**. Fluctuation in estradiol concentration in normal dogs. Presented at: North American Veterinary Dermatology Forum; April 2010; Portland, OR.

Frank N. Management of the insulin resistant horse; Which endocrine disorder are we dealing with? Pituitary pars intermedia dysfunction versus equine metabolic syndrome: Diagnostics; Which endocrine disorder are we dealing with? Pituitary pars intermedia dysfunction versus equine metabolic syndrome: Treatment options; Equine endocrinology special interest group: Insulin resistance. Oral presentations at: ACVIM Annual Forum; June 2010; Anaheim, CA.

Hecht S, Adams WH, Cunningham MA, Lane IF. Initial experience with the classroom performance system (CPSTM) in radiology education. Presentation at: ACVR Annual Meeting; August 2010; Asheville, NC.

Hecht S, Adams WH, Cunningham MA, Lane IF. Initial experience with the classroom performance system (CPSTM) in radiology education. Presentation at: EVDI Meeting; July 2010; Giessen, Germany.

Hecht S, Adams WH, Narak J, Thomas WB. Susceptibility artifacts due to metallic foreign bodies in small animal MRI. Presentation at: ACVR Annual Meeting; August 2010; Asheville, NC.

Hecht S, Durant AM, Bohling MW, Adams WH, **Conklin GA**. Use of contrast-enhanced MR angiography (CE-MRA) for the diagnosis of a vascular ring anomaly in a dog. Presentation at: EVDI Meeting; July 2010; Giessen, Germany.

Huang E, Chen G, **Baek SJ, McEntee M** Whelan J. Medicinal herbs inhibit prostate cancer (PCa) via PI3 kinase and p21 mechanisms. Presented at: Experimental Biology Meeting; April 2010; Anaheim, CA.

Krisanapun C, **Lee SH**, Peungvicha P, Temsiririrkkul R, **Baek SJ**. Antidiabetic activities of *Abutilon indicum* Sweet mediated by enhancement of PPARγ and activation of the GLUT1 promoter. Presented at: EB Meeting; April 2010; Anaheim, CA.

Lane IF. Currium change; Incorporation of non-technical competencies into courses and curricula. Invited presentation at: North Carolina State University College of Veterinary Medicine, Course Directors Workshop; June 2010; Raleigh, NC.

Lane IF. How people learn; The teaching philosophy; Competencies, goals, and objectives; Course design; Lecture preparation; Clinical teaching. Invited presentations at: Tuskegee University School of Veterinary Medicine, Teaching and Curriculum Faculty Development Workshop; May 2010; Tuskegee, AL.

Lane IF. Refractory lower urinary tract diseases; Case examples in feline urology; Urinary incontinence in dogs: Reviewing the basics; Managing refractory incontinence in dogs. Invited presentations at: American Veterinary Medical Association Annual Convention; August 2010; Atlanta, GA.

Lee SH, Krisanapun C, **Baek SJ**. NSAID-activated gene-1 as a molecular target for capsaicin-induced apoptosis through a novel molecular mechanism involving GSK3β, C/EBPβ, and ATF3. Presented at: EB Meeting; April 2010; Anaheim, CA.

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2011 Technology Maturation Fund Application Deadline Announced

The UT Research Foundation announced its fourth annual maturation funding program to help UT researchers further develop technologies that have potential for commercial success. Up to $15,000 (direct costs) will be awarded to the highest ranking proposals.

The proposed project must be related to an existing or new UT invention/creation and will be judged on demonstration of a path for commercial development, market potential, and stage of development.

The deadline for proposal submission is November 12, and awards will be announced December 17 in time for a project start date of January 17, 2011.

For more information, visit *http://utrf.tennessee.edu* or contact Joy Fisher at *joy.fisher@utk.edu*. ☙

Two UTCVM Faculty with Prestigious Publications

Two papers by Pathobiology Department faculty members were recently published in the high impact factor journals *Nature Reviews Immunology* (impact factor [IF] 32.2) and *Proceedings of the National Academy of Science, USA* (IF 9.43).

Drs. Barry Rouse and **David Brian**, respectively, published "Immunity and immunopathology to viruses: What decides the outcome?" and "Subgenomic messenger RNA amplification in coronaviruses." Full details of their papers may be found in the *Recent Publications* section. ☙

UT Libraries Subscribe to *Journal of Visualized Experiments*

The *Journal of Visualized Experiments* (JoVE) is a peer-reviewed, PubMed-indexed journal devoted to the publication of biological research in video format. The Materials and Methods section of each article contains a professional video that shows, rather than simply describes, experimental techniques.

This method of scholarly communication is especially useful to researchers who are doing a technique for the first time or teaching the technique to someone else.

Faculty interested in publishing in the journal may arrange for a video to be done in their own lab with a regional, JoVE-provided videographer.

The journal is accessible to all UT faculty, staff, and students in the ejournals list on the library's Web site: *http://www.lib.utk.edu/*. ☙

Publications cont. from p. 2

JM, Jayasundera NK. Comparison of testis structure, function and thyroid hormone levels in control C57BL/6 mice and anti-mullerian hormone over expressing mice. *Histol Histopathol Cell Mol Biol* 2010;25:901–908.

Morandi F, Sura PA, **Sharp D**, Daniel GB. Characterization of multiple acquired portosystemic shunts using transplenic portal scintigraphy. *Vet Radiol Ultrasound* 2010;51:466–471.

Parent A, **Newkirk K**, Kusewitt D. Slug (Snai2) expression during skin and hair follicle development. *J Investi Dermatol* 2010;130:1737–1739.

Roberson J, Mixon J, Oliver S, **Rohrbach B, Holland R.** Etiologic mastitis agents of high somatic cell count dairy herds in Tennessee. *Bovine Pract* 2010;44:138–145.

Roberson JR, Kalck KA. Treatment of candidal mastitis in two Holstein cows: A case report and review. *Bovine Pract* 2010;44:52–58.

Rouse BT, Sehrawat S. Immunity and immunopathology to viruses: What decides the outcome? *Nat Rev Immunol* 2010;10:514–526.

Song X, **Rathore K**, Siriwardhana N, Lin D, **Wang H-CR**. Grape seed proanthocyanidin suppression of breast cell carcinogenesis induced by chronic exposure to combined 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone and benzo[a]pyrene. *Mol Carcinog* 2010;49:450–463.

Stieve E, Beckmen K, **Kania SA, Widner A, Patton S.** *Neospora caninum* and *Toxoplasma gondii* antibody prevalence in Alaska wildlife. *J Wild Dis* 2010;46:348–355.

Stursberg U, Zenker I**, Hecht S**, Harmann K, Schulz BS. Use of propentofylline in feline bronchial disease: prospective, randomized, positive-controlled study. *J Am Anim Hosp Assoc* 2010;46:318–26.

Sukhthankar M, Alberti S, and **Baek SJ.** (-)-Epigallocatechin-3-gallate (EGCG) post-transcriptionally and post-translationally suppresses the cell proliferative protein trop-2 in human colorectal cancer cells. *Anticancer Res* 2010;30:2497–503.

van Amstel S, Kennedy M. Bovine viral diarrhea infections in new world camelids—A review. *Sm Ruminant Res* 2010;91:121–126.

Whittemore JC, Flatland B. Comparison of traditional and microsampling blood collection tubes for evaluation of biochemical parameters in healthy dogs and cats. *J Am Vet Med Assoc* 2010;237:288–292.

Whittemore JC, Flatland B. Comparison of traditional and microsampling blood collection tubes for evaluation of canine and feline complete blood counts in healthy dogs and cats. *J Am Vet Med Assoc* 2010;237:281–287.

Wu H-Y, Brian DA. Subgenomic messenger RNA amplification in coronaviruses. *Proc Natl Acad Sci USA* 2010;107:12257–12262.

Zimmerman KL, Panciera DL, Panciera RJ, **Oliver JW**, Hoffman WE, Binder EM, Randall DC, Kinnarney JH. Hyperphosphatasemia and concurrent adrenal gland dysfunction in apparently healthy Scottish terriers. *J Am Vet Med Assoc* 2010;237:178–186.☙

Presentations cont. from p. 4

LeBlanc AK. Panelist in: Image Interpretation Session; American College of Veterinary Radiology Annual Scientific Meeting; August 18, 2010; Asheville, NC.

LeBlanc AK. Scintigraphy; Radiopharmaceuticals; Radiation detectors & equipment; Computer and image processing; Radiotherapy; Quality control; Image quatification; PET; Radiation safety. Invited lectures at: Diagnostic Imaging Masters Program; June 2010; Universita'di Camerino, Camerino, Italy.

LeBlanc AK, Morandi F, **Miller AN**, Wall JS, **Galyon GD**, **Moyers TD**, Long MJ, Stuckey AC. Serial 18FDG-PET/CT can assess response to receptor tyrosine kinase inhibition in canine cancer. Oral presentation at: American College of Veterinary Radiology Annual Scientific Meeting; August 2010; Asheville, NC.

LeBlanc AK, Morandi F, Miller AN, Wall JS, **Galyon GD**, **Moyers TD**, Long M, Stuckey AC. Serial 18FDG-PET/CT can predict response to receptor tyrosine kinase inhibition in canine cancer. Presented at: American College of Veterinary Radiology 2010 Annual Scientific Meeting; August 2010; Asheville, NC.

Legendre A. Polyprenyl immunostimulant. Oral presentation at: American College of Veterinary Internal Medicine Forum Infectious Disease Group; June 11, 2010; Anaheim, CA.

Lusby A, Kirk C, Toll P, Pateau-Robinson I, **Henry G.** Effectiveness of BCS for estimation of ideal body weight and energy requirements in overweight and obese cats compared to DXA. Presented at: American College of Veterinary Internal Medicine Annual Forum; June 3–6, 2010; Anaheim, CA.

Mendis-Handagama C. Unveiling the mysteries of Leydig stem cell differentiation in the postnatal mammalian testis. Invited talk at: Second World Congress for Antibodies; March 2010; Beijing, China.

New J. Animal welfare in animal-assisted interventions. Presented at: Veterinary Social Work Summit; May 15, 2010; Knoxville, TN.

Newman S. Amyloid-producing odontogenic tumor in a dog. Presented at: Midwest Pathology Meeting; August 12–13, 2010; Kalmazoo, MI.

Odoi A, Busingye D. Application of network analysis in the investigation of disparities in geographic access to emergency stroke and heart attack care. Oral presentation at: 4th International Symposium on Geospatial Health; August 2010; Melbourne, Australia.

Pedigo A, Odoi A. Disparities in geographic access to emergency stroke and myocardial infarction care. Poster presented at: Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke 2010 Scientific Sessions; May 2010; Washington, DC.

Pedigo A, Seaver W, **Odoi A**. Application of fuzzy clustering and discriminant analysis to identify neighborhood population characteristics and health needs. Poster presented at: 2010 Joint Statistical Meetings; August 2010; Vancouver, BC, Canada.

Prado M. Oral pharmacokinetics of ponazuril in healthy llamas (*Lama glama*). Invited presentation at: American College of Veterinary Internal Medicine Annual Forum; June 2010; Anaheim, CA

Prado M. Problems affecting small ruminants; Diagnosis and management of colic in the horse; Failure of passive transfer in different species. Invited presentations at: Scientific Congress, School of Veterinary Medicine, University of Panama; July 2010; Panama City, Panama.

Prado M. Update on *Eimeria macusaniensis*. Is ponazuril (Marquis) effective? Oral presentation at: Tennessee Llama Association Annual Meeting; April, 2010.

Rathore K, Choudhary S, Song S, Siriwardhana N, **Wang H-CR**. Biological, biochemical, and molecular targets for dietary catechin-induced suppression of breast cell chronic carcinogenesis. Presented at: American Association for Cancer Research Annual Meeting; April 2010; Washington, DC.

Roberson J. Small ruminants for technicians; Odd reproductive problems of small ruminants; Management of the severely parasitized small ruminant; Three interesting cases and small ruminant tips; Clinical mastitis: The first 8 days. Presented at: 43rd Annual Convention of the American Association of Bovine Practitioners; August 2010; Albuquerque, NM.

Schumacher J. Reptile anesthesia and analgesia; Ultrasound and CT imaging in reptiles. Oral presentations at: 35th Congress of the World Small Animal Veterinary Association; June 2–5, 2010; Geneva, Switzerland.

Schuver A, Frank N, Chameroy K, Elliott SB. Use of an oral sugar test to assess insulin sensitivity in healthy and insulin-resistant horses. Poster presented at: American College of Veterinary Internal Medicine Annual Forum; June 2010; Anaheim, CA.

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