



CCMTR Interim Director

Dr. Jorge Piedrahita has been named interim director of the Center. He will serve in this capacity until a permanent dean of the CVM is in place, and there is a clear understanding of the role that the CCMTR will play in the NC State reorganization and strategic plan announced by the chancellor earlier this year. It will be an exciting time of opportunity for the Center over the next year and Dr. Piedrahita will be an excellent advocate and visionary. Dr. Piedrahita started June 1.

One Health IEG Returns to Monthly Schedule

This spring graduate, veterinary and medical students at Duke, UNC, and NC State participated for credit in the weekly parallel course “One Health Intellectual Exchange: From Philosophy to Practical Integration of Human, Animal and Environmental Health.” This was a very successful collaboration, thanks to the hard work of many people from all three universities, plus assistance from NC Biotechnology Center.

The IEG will now return to a monthly schedule, with meetings planned for June 21, August 16, September 13, and October 5. The primary purpose of these discussions is to bring together professionals, MDs, DVMs, PhDs, nurses, dentists, and others related to public or environmental health. Anyone interested in public health is welcome to attend. See the events calendar for the upcoming topics:

<http://www.cvm.ncsu.edu/ccmtr/cal.html>.

New Trainees Selected for CMTRTP

Drs. Keara Boss, Liz Lennon and Debra Tokarz have been selected for the Comparative Medicine and Translational Research Training Program and will begin the three-year program this summer.

Dr. Boss graduated from NC State CVM, and is completing her residency in radiation oncology. Dr. Lennon graduated from NC State CVM and is completing her residency in small animal internal medicine. Dr. Tokarz graduated from Michigan State University CVM and is completing her residency in anatomic pathology at UC Davis.

These new trainees join Drs. Katie Sheats, Tracy Hill, Katie Tolbert and Teresa Buchheit, who are continuing in the program. For details on the program: <http://www.cvm.ncsu.edu/ccmtr/cmtrtp.html>.

Gookin Receives AVMA Award

Dr. Jody Gookin was selected by the American Veterinary Medical Association Council on Research as the winner of the 2011 American Veterinary Medical Foundation/Winn Feline Foundation Research Award for her contributions to advancing feline research and feline health. Congratulations, Dr. Gookin!

Pilot Project Grant Recipients

Dr. Shila Nordone (“Defining Mechanisms of Variable Bleeding Tendency in Immune Thrombocytopenia”) and Dr. Adam Birkenheuer (“Characterization of *Cytauxzoon felis* vaccine candidate antigens identified by immunoscreening of *Plasmodium falciparum* protein microarrays”) were awarded grants from the CCMTR. The goal of this program is to enhance new interdisciplinary research collaborations with particular emphasis on translational research.

Center Members Receive \$50k NC TraCS Awards

Dr. Charles Apperson (“Defining the Tick Microbiome in NC and the Northeast”) and Dr. Jorge Piedrahita (“Bridging the divide between mouse and man: Creating a transformative model of intestinal stem cell transplantation”) each received \$50k awards from NC TraCS. The Center provided matching funds.

Grant Received for Clinical Research Network

Dr. Kim Chappell, director of the Center's Clinical Studies Core, received a \$21,000 grant for "Development of a Triangle Area Practice Based Veterinary Clinical Research Network." The proposed network will engage veterinary practitioners, and connect study sponsors, research collaborators, experts, and investigators in support of clinical and translational research.

The network will facilitate conduct of collaborative, multi-center veterinary clinical studies by providing infrastructure for business and operational development, site recruitment, site and personnel training, communications, data management, and quality assurance.

Creating a pilot network in the Triangle area will serve as proof of concept, and will attract collaborators and investors for an eventual statewide expansion. This program will be the first practice-based veterinary clinical research network associated with an academic institution in the US. The program will serve as a platform for collaborations between NC veterinary practices, industry and academic partners for the benefit of animal and human health. The Center contributed \$5,000 in matching funds.

New Articles Highlight Research

Several members had their CCMTR-related research published recently:

Author(s): Perez, C; Diniz, PPVP; Maggi, RG; Breitschwerdt, EB

Title: Canine Bartonellosis Mimics other Tick-Borne Diseases

Source: JOURNAL OF VETERINARY INTERNAL MEDICINE 25 (3): 706-707 MAY-JUN 2011

Author(s): Breitschwerdt, EB; Hegarty, BC; Maggi, RG; Lantos, PM; Aslett, DM; Bradley, JM

Title: Rickettsia Transmission by a Lone Star Tick, North Carolina

Source: EMERGING INFECTIOUS DISEASES 17 (5): 873-875 MAY 2011

Author(s): Olivry T, Paps J

Title: Evaluation of the agreement between allergen-specific intradermal or IgE serological tests and a point-of-care immunodot assay in dogs with atopic dermatitis

Source: VETERINARY DERMATOLOGY, Volume: 22, Issue: 3, Pages: 284-285 Published: JUN 2011

Author(s): de Caprariis D, Dantas-Torres F, Capelli G, Mencke N, Stanneck D, Breitschwerdt EB, Otranto D

Title: Evolution of clinical, haematological and biochemical findings in young dogs naturally infected by vector-borne pathogens

Source: VETERINARY MICROBIOLOGY, Volume: 149, Issue: 1-2, Pages: 206-212, Published: APR 21 2011

Author(s): Wood MW, Nordone SLK, Vaden SL, Breitschwerdt EB

Title: Assessment of urine solute and matrix effects on the performance of an enzyme-linked immunosorbent assay for measurement of interleukin-6 in dog urine

Source: JOURNAL OF VETERINARY DIAGNOSTIC INVESTIGATION, Volume: 23, Issue: 2, Pages: 316-320, Published: MAR 2011

Author(s): Bizikova P, Linder KE, Olivry T

Title: Immunomapping of desmosomal and nondesmosomal adhesion molecules in healthy canine footpad, haired skin and buccal mucosal epithelia: comparison with canine pemphigus foliaceus serum immunoglobulin G staining patterns

Source: VETERINARY DERMATOLOGY, Volume: 22, Issue: 2, Pages: 132-142, Published: APR 2011

Author(s): Olivry T, Wofford J, Paps JS, Dunston SM, Stanley M

Title: Stratum corneum removal facilitates experimental sensitization to mite allergens in atopic dogs

Source: VETERINARY DERMATOLOGY Volume: 22, Issue: 2, Pages: 188-196, Published: APR 2011

Author(s): Tsai S, Hardison NE, James AH, Motsinger-Reif AA, Bischoff SR, Thames BH, Piedrahita JA
Title: Transcriptional profiling of human placentas from pregnancies complicated by preeclampsia reveals dysregulation of sialic acid acetyltransferase and immune signalling pathways
Source: PLACENTA, Volume: 32, Issue: 2, Pages: 175-182, Published: FEB 2011

Author(s): Cardona JAC, Milner R, Alleman AR, Williams C, Vernau W, Breen M, Tompkins M
Title: BCR-ABL translocation in a dog with chronic monocytic leukemia
Source: VETERINARY CLINICAL PATHOLOGY, Volume: 40, Issue: 1, Pages: 40-47, Published: MAR 2011

Author(s): Mikkelsen SR, Long JM, Zhang L, Galemore ER, VandeWoude S, Dean GA
Title: Partial Regulatory T Cell Depletion Prior to Acute Feline Immunodeficiency Virus Infection Does Not Alter Disease Pathogenesis
Source: PLOS ONE, Volume: 6, Issue: 2, Article Number: e17183, Published: FEB 25 2011

Author(s): Yoder JA, Litman GW
Title: The phylogenetic origins of natural killer receptors and recognition: relationships, possibilities, and realities
Source: IMMUNOGENETICS, Volume: 63, Issue: 3, Pages: 123-141, Published: MAR 2011

Author(s): Suter SE, Small GW, Seiser EL, Thomas R, Breen M, Richards, KL
Title: FLT3 mutations in canine acute lymphocytic leukemia
Source: BMC CANCER, Volume: 11, Article Number: 38, Published: JAN 27 2011

Author(s): Okayama T, Matsuno Y, Yasuda N, Tsukui T, Suzuta Y, Koyanagi M, Sakaguchi M, Ishii Y, Olivry T, Masuda K
Title: Establishment of a quantitative ELISA for the measurement of allergen-specific IgE in dogs using anti-IgE antibody cross-reactive to mouse and dog IgE
Source: VETERINARY IMMUNOLOGY & IMMUNOPATHOLOGY, Volume: 139, Issue: 2-4, Pages: 99-106, Published: FEB 15 2011

Author(s): Wood MW, Breitschwerdt EB, Gookin JL
Title: Autocrine Effects of Interleukin-6 Mediate Acute-Phase Proinflammatory and Tissue-Reparative Transcriptional Responses of Canine Bladder Mucosa
Source: INFECTION AND IMMUNITY, Volume: 79, Issue: 2, Pages: 708-715, Published: FEB 2011

Author(s): Wang X, Sistrunk C, Rodriguez-Puebla ML
Title: Unexpected Reduction of Skin Tumorigenesis on Expression of Cyclin-Dependent Kinase 6 in Mouse Epidermis
Source: AMERICAN JOURNAL OF PATHOLOGY, Volume: 178, Issue: 1, Pages: 345-354, Published: JAN 2011

Author(s): Piedrahita JA, Olby N
Title: Perspectives on transgenic livestock in agriculture and biomedicine: an update
Conference Information: Annual Conference of the International-Embryo-Transfer-Society, JAN 08-12, 2011 Orlando, FL
Source: REPRODUCTION FERTILITY AND DEVELOPMENT, Volume: 23, Issue: 1, Pages: 56-63, Published: 2011

Events Calendar

To see upcoming events: <http://www.cvm.ncsu.edu/ccmtr/cal.html>. If you'd like to add an event to the calendar, send an email to liz_selisker@ncsu.edu.

Designate the CCMTR in PINS!

Designation of the CCMTR in PINS is an important means for us to track the impact of the Center. If your proposal meets any of the following criteria, please select the CCMTR on the pull-down menu for 'Center': 1) the proposal is the result of a collaboration initiated through CCMTR activities, 2) CCMTR funding or a CCMTR service core was used to generate preliminary data, 3) the proposal will utilize a CCMTR service core, or 4) a CCMTR-supported trainee will be involved in the research. If you have any questions, please contact Liz Selisker.

CCMTR Promotion Encouraged

Increasing external recognition of the Center remains essential. Faculty members are reminded to acknowledge the Center in posters, presentations, publications, abstracts and grants. The Center logo is available for your use. Please contact Liz at liz_selisker@ncsu.edu or 515-8113.