

**K-State MPH Faculty Advisory Council Meeting  
Mosier N202  
Wednesday, September 10, 2014, 10:30 AM  
Minutes**

<b>Committee Member</b>	<b>Emphasis</b>	<b>Present</b>	<b>Not Present</b>
Cates, Michael	MPH Director	X	
Stevenson, Barta	MPH Staff	Non Voting	
open	MPH Student		
Canter, Deb	Core Instructor		X
Hsu, Wei Wen	Core Instructor	X	
Larson, Robert	Core Instructor	X	
Sanderson, Michael	Core Instructor		Larson Proxy
open	FSB		
Kastner, Justin	FSB		X
Nutsch, Abbey	FSB		Renter Proxy
Chapes, Stephen	IDZ	X	
Renter, David	IDZ	X	
van der Merwe, Deon	IDZ		X
Haub, Mark	PHN	X	
Rosenkranz, Ric	PHN		Haub Proxy
Wang, George	PHN		X
Irwin, Brandon	PHPA	X	
Mailey, Emily	PHPA		Irwin Proxy
McElroy, Mary	PHPA	X	

Dr. Cates called the meeting to order at 10:30 AM. The meeting started without a quorum present. Once a quorum was present, the minutes from the May meeting were approved as distributed.

**1. Committee Reports / Recommendations:**

- a. Program Director's Report. Dr. Cates provided a status of the program and his activities since May (Attachment 1). He announced that the MPH Program Office has paid for Kansas State University's large organization membership in the Kansas Public Health Association, and that included individual membership for all MPH Graduate Faculty.
- b. Curriculum Committee. The committee has not yet started to review IDZ curriculum, but will do so shortly. Dr. Cates offered to provide any data needed by the committee.

**2. New Business:**

- a. The council approved the MPH Graduate Faculty application for Dr. Tonatiuh Melgarejo, Human Nutrition (Attachment 2).
- b. Update to MPH Graduate Handbook for September 2014. The council members discussed the update to the MPH Graduate Handbook, Section 5.1, Supervisory Committee. The group approved the following wording for the first paragraph of that section:

## Attachments

*Prior to preparation of the Program of Study (POS), the graduate student must form a supervisory committee including a major professor and at least two other graduate faculty. The major professor must be from the student's area of emphasis and a member of the MPH Graduate Faculty. The other two members of the committee must be from the approved list of MPH Graduate Faculty. A non-MPH Graduate Faculty may be a committee member if that faculty member has unique expertise that would be helpful to the student and has pre-approval by the MPH Program Director.*

It was suggested that, in addition to the course number, we add the course description in the handbook to help students understand what is taught in each course.

- c. CEPH Non-compliant criteria response due Spring 2015. The majority of the remainder of the meeting was spent on discussion related to drafting our response to CEPH concerning the three non-compliant items.
  1. Environmental Toxicology course: Dr. Cates will meet with Drs. Chengappa, van der Merwe, and Nguyen to discuss what can be done to improve/strengthen the course in regard to CEPH's concerns.
  2. Linkages to competencies: The following suggestions were made:
    - a. Ask course instructors to add learning objectives to their syllabus that correspond to the appropriate MPH competencies.
    - b. Core course instructors should ensure that their core course syllabus clearly articulate the learning objectives which correspond to our required competencies.
    - c. Add course descriptions to the lists of courses in our approved curricula.
    - d. Require documentation from students to their committee members on how they met required competencies.
    - e. On surveys, ask students and graduates about courses and corresponding competencies.
    - f. In the response to CEPH, send revised syllabi for core courses and highly prescribed courses to show the improvement and linkages with competencies.
  3. Collection and use of programmatic assessment data: The discussion centered on these core ideas/suggestions to be included in our response to CEPH:
    - a. Do not over interpret the data and do not overreact to individual comments.
    - b. Revise surveys to include questions about learning outcomes/competencies.
    - c. Consider results from workforce assessment now ongoing in partnership with the state and local health departments as well as the KU MPH program.
    - d. Share significant trends and outcomes with department heads and deans for possible resourcing needs.

## Attachments

**Future Meetings:** Below is a list of future meetings (all scheduled to begin at 10:30 am).

Date	Location/Room
October 15, 2014 (3 <sup>rd</sup> Wednesday by design)	Union Rm 209
November 12, 2014	Mosier N202
December 10, 2014	Union Rm 209
January 14, 2015	Mosier N202

The meeting adjourned at 11:50 PM.

**MPH Program Director's Report**  
September 2014

**Admissions – Fall 2014:** 35 Complete Applications, 29 Recommended for Admission / 6 Denied, 24 Started / 5 Did not start

Food Safety / Biosecurity: 0  
Infectious Diseases / Zoonoses: 14  
Public Health Nutrition: 5  
Public Health Physical Activity: 3  
Graduate Certificate Only: 2

**Graduates (MPH Degree):** 4 in Summer, 21 for Academic Year 2014, 120 Total

Food Safety / Biosecurity: 8  
Infectious Diseases / Zoonoses: 75  
Public Health Nutrition: 18  
Public Health Physical Activity: 19

**Completion of Graduate Certificate in Public Health Core Concepts:** 0 in Summer, 4 in Academic Year 2014; 22 Total

**Current Students:** 95 Students

Food Safety / Biosecurity: 5  
Infectious Diseases / Zoonoses: 56  
Public Health Nutrition: 15  
Public Health Physical Activity: 8  
Graduate Certificate Only: 11

**On Campus Activities:**

Student Orientation: August 21, 2014, 14 New Students, 5 Current Students, 10 Faculty and Staff attended.

**Beyond Campus Collaboration / Activities:**

Kansas Public Health Association  
Kansas Public Health Systems Group  
Public Health Workforce Development Coordinating Council  
Public Health Workforce Needs Assessment  
Riley County Public Health Advisory Council  
Flint Hills Wellness Council

**Application for Dr. Tonatiuh Melgarejo**

**APPLICATION  
MASTER OF PUBLIC HEALTH (MPH) PROGRAM FACULTY  
KANSAS STATE UNIVERSITY**

Please complete this form and send it along with an accompanying brief (2-3 page) Curriculum Vitae to: Dr. Michael Cates, Director, Master of Public Health Program, 311 Trotter Hall.

**PERSONAL INFORMATION**

Name of Applicant: Tonatiuh Melgarejo, DVM PhD

Title and Department- Associate Professor, Department of Human Nutrition

Office Address: 143A Justin Hall

Office Phone:

2-2730

Email- [tmelgar@ksu.edu](mailto:tmelgar@ksu.edu)

**PROFESSIONAL RESPONSIBILITIES**

Graduate Faculty Status: ☐ Yes

Graduate Courses Taught (limit 285 characters)

HN510 - Lifespan "Nutrition (3 credits)

HN780 - Problems in Human Nutrition (1-6 credits)

HN810 - Advanced Macronutrient Metabolism (5 credits)

HN880 - Graduate Seminar in Human Nutrition (1 credit)

HN899 - Master's Thesis (1-6 credits)

HN999 - Research in Foods and Nutrition (1-18 credits)

+ regular guest lecturing in other HN courses as well as invited seminars across campus.

**PERSONAL STATEMENT**

Briefly describe in the space below, your interest, experience, current projects, and other contributions to the Master of Public Health program at Kansas State University (limit 855 characters)

My research is focused on the development of novel biotherapeutics using naturally occurring host defense (antimicrobial) peptides from highly robust animal species such as spotted hyenas. My work is comparative in nature and involves domesticated as well as wildlife species, which has also facilitated an extensive network of collaborators, both nationally and internationally. As a veterinarian-scientist (DVM/PhD) I let my research be guided by clinically relevant problems. This has resulted in a number of different projects, e.g. the use of a dog-derived antimicrobial peptide as a natural antibiotic against pathogens of relevance to both human and veterinary medicine. In addition to projects focused on identifying new ways to fight infectious disease pathogens, other studies in my lab have been nutritionally-oriented with emphasis on obesity and cardiovascular disease. My team has included students from human nutrition, veterinary medicine, biology, and animal science, as well as visiting international scholars. Some students have also participated in fieldwork projects outside of campus and abroad. In summary, my research has a One Health focus that has broad relevance for several of the emphasis areas in the MPH program, including Infectious Diseases/Zoonoses, Food Safety/Biosecurity and Public Health Nutrition.

## CURRICULUM VITAE

Tonatiuh Melgarejo, DVM Esp MS PhD. Associate Professor, Department of Human; College of Human Ecology. Justin Hall 143A, Kansas State University - Manhattan, KS, 66506; [tmelgare@ksu.edu](mailto:tmelgare@ksu.edu); Tel (785) 532-2730

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### EDUCATION & POST-GRADUATE TRAINING

Institution & Location	Degree/Program	Year	Field of Study
University of Pennsylvania, PA (USA)	<i>Residency</i>	2001	Internal Medicine
Texas A&M University, TX (USA)	<i>Internship</i>	1999	Small Animal Medicine
Purdue University, IN (USA)	PhD	1998	Comparative Pathobiology
Purdue University, IN (USA)	MS	1993	Clinical Sciences
National University of Mexico (MX)	Esp (Especialista)	1988	Companion Animal Medicine
National University of Mexico (MX)	DVM	1986	Veterinary Medicine

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### PROFESSIONAL EXPERIENCE

#### *Associate Professor*

- 2009 - current: Kansas State University, College of Human Ecology, Human Nutrition Dept., Manhattan, KS, USA

#### *Assistant Professor*

- 2003 - 2009: Kansas State University, College of Human Ecology, Human Nutrition Dept., Manhattan, KS, USA

#### *Ancillary Faculty Member*

- 2006 - current: Kansas State University, College of Veterinary Medicine, Anatomy and Physiology Dept.

#### **Assistant Professor**

- 2001-2003: Kansas State University, College of Veterinary Medicine, Clinical Sciences Dept., Manhattan, KS, USA

#### *Internal Medicine Resident*

- 1999-2001: University of Pennsylvania, Matthew J Ryan Veterinary Hospital, Philadelphia, PA, USA *Small Animal*

#### *Medicine Intern*

- 1998-1999: Texas A&M University, Small Animal Teaching Hospital, College Station, TX, USA

#### **Consultant Scientist for Corporate R&D Group (Purina- EUROPE)**

- 1998-2004: Purina -Affinity - Barcelona, Spain

#### **Research Assistant**

- 1992-1998: Purdue University, Dept. of Clinical Sciences. Small Animal Teaching Hospital, West Lafayette, IN, USA

#### *Research Assistant*

- 1991-1992: Kansas State University, College of Veterinary Medicine, Clinical Sciences Dept., Manhattan, KS, USA

#### *Lecturer In Small Animal Internal Medicine*

- 1989 -1991: National University of Mexico, Small Animal Teaching Hospital, Mexico City, Mexico

## AWARDS &amp; HONORS

- College of Human Ecology, Myers-Alford Excellence Undergraduate Teaching Award, 2012
- College of Human Ecology, Dawley-Scholar Award for Excellence in Student Development. May 2011
- College of Veterinary Medicine - Center of Biomedical Research Excellence (COBRE); Epithelial Function in Health and Disease. Faculty Development Award. Kansas State University. March 2010
- College of Human Ecology, Faculty Research Excellence Award. Kansas State University. May 2007
- College of Human Ecology, Myers-Alford Teaching Award. Kansas State University. 2007 (nomination)
- College of Human Ecology, Dawley-Scholar Award for Faculty Excellence in Student Development Kansas State University. 2007 (nomination)
- Invited speaker for the World Small Animal Veterinary Association (WSAVA) Congress 2005; Mexico City, Mexico (three presentations in comparative gastroenterology and nutrition)
- College of Human Ecology, Dawley-Scholar Award for Faculty Excellence in Student Development. Kansas State University. 2005 (nomination)
- Honor Society of Veterinary Medicine. Phi Zeta, Omicron Chapter. School of Veterinary Medicine. Kansas State University. 2002
- ACVIM research award for outstanding oral research presentation - Gastroenterology area. 19th Annual American College of Veterinary Internal Medicine Congress. Denver, Colorado, 2001
- ACVIM travel award, 19th Annual American College of Veterinary Internal Medicine Congress. Denver, Colorado, 2001.
- Invited outstanding research presentation at the plenary session of the European College of Veterinary Internal Medicine (ECVIM) Congress. Dublin, Ireland, 2001
- Comparative Gastroenterology Society's award. Outstanding oral research presentation. 14th Annual American College of Veterinary Internal Medicine Congress. San Antonio, Texas, 1996
- Comparative Gastroenterology Society's award. Outstanding oral research presentation. 11th Annual American College of Veterinary Internal Medicine Congress. Orlando, Florida, 1993
- University committee on academic merit. Silver medal "Gabino Barreda". In recognition of the graduate students of the year. National A. University of Mexico. Mexico City, Mexico. 1991
- Mexican Association of Small Animal Practitioners. Alfonso Alexander's award. Outstanding oral presentation by a new member. Area of Internal Medicine. Puebla, Mexico. 1988

## RELEVANT PEER-REVIEWED PUBLICATIONS

- Dib L, Ortega MT, Fleming S, Chapes SK, Melgarejo T (2014). Bone Marrow Leptin Signaling mediates Obesity- Associated Adipose Tissue Inflammation in Male Mice. *Endocrinology* 155 (1): 40 - 46
- (Editorial Comment (on Dib et al, 2014). Hasty AH, Gutierrez DA (2014). What Have We Really Learned About Macrophage Recruitment to Adipose Tissue? *Endocrinology* 155 (1): 12-14)
- 'Linde A, Ross C, Blecha F, Lushington GH, Melgarejo T (2013): Cardiac Beta-Defensins Upregulate with a High Fat Diet and Influence Monocyte Migration. *Open J Intern Med*; 3,81-94 - doi:10.4236/ojim.2013.32021.
- Linde A, Abello J, Lushington GH, Melgarejo T (2013): Clinical Relevance of Cathelicidin in Infectious Disease. *J Clin Cell Immunol*. S13:003. Special Issue: Innate Response to Infectious Diseases, doi: 10.4172/2155-9899.S13-003.

- Tamayo-Sosa AR, Villar P6rez VM, Barreras-Serrano A, Hernandez Pando R, Olivas-Valdez JA and Melgarejo T. Evaluation of the K9CATH peptide in the treatment of experimental pulmonary tuberculosis (2012) *A J of Microbiology Research*, Vol. 6(38), pp. 6726-6729
- A. Barreras-Serrano, A.R. Tamayo-Sosa, V.M. Del Villar-Perez, J.A.O. Valdez, T.B. Renteria-Evangelista, L.C. Pujol-Manriqueza, T. Melgarejo-Garcia. Evaluation of the antimicrobial susceptibility of *Staphylococcus aureus* to the K9CATH peptide by the resazurin microtiter method and the reference broth microdilution method (2012) *Scientific Journal of Veterinary Advances*, 1(6) 137-141; ISSN 2322-1879 (attached)
- Linde A, Wachter B, Honer OP, Dib L, Ross C, Tamayo AR, Blecha F & Melgarejo T (2009): Natural History of Innate Host Defense Peptides; *Probiotics 4 Antimicro Prot* 1:97-112 (senior/corresponding author)
- Luis Tinoco, Alberto Barreras-Serrano, Gilberto Lopez-Valencia, Alma Rossana Tamayo-Sosa, Hector Quiroz-Romero, Tonatiuh Melgarejo: Seroprevalence of larva migrans of *Toxocara canis* and evaluation of associated risk factors among children in a Mexico-U.S. border region. *Int J of Appl Res in Vet Med*. 2008; 6 (2): 130-136 (senior author)
- Annika Linde, Gerald H. Lushington, Frank Blecha, Tonatiuh Melgarejo: Rat Cardiomyocytes Express a Classical Epithelial Beta-Defensin; *American Journal of Animal and Veterinary Sciences* 2008; 3 (1): 1-6 (senior/corresponding author)
- Linde A, Ross C, Davis E, Dib L, Blecha F, Melgarejo T: Innate Immunity and Host Defense Peptides: Role in Veterinary Medicine; *Journal of Veterinary Internal Medicine* 2008 (22): 247-265 (senior/corresponding author)
- Annika Linde, Frank Blecha, Tonatiuh Melgarejo: Toll-Like Receptor (TLR) 2 and TLR4 Gene Expression in Canine Heart; *American Journal of Animal and Veterinary Sciences* 2007 2 (1): 6-10 (senior/corresponding author)
- Yongming Sang, M. Teresa Ortega, Kristina Rune, Wang Xiau, Guolong Zhang, Jose L. Soulages, Gerald H. Lushington, Jianwen Fang, Todd D. Williams, Frank Blecha, Tonatiuh Melgarejo: Canine Cathelicidin (K9CATH): gene cloning, expression, and biochemical activity of a novel pro-myeloid antimicrobial peptide, *Developmental and Comparative Immunology*. 2007; 31 (12): 1278-96 (senior/corresponding author)
- Linde A, Mosier D, Blecha F, and Melgarejo T: Innate Immunity and Inflammation - New Frontiers in Comparative Cardiovascular Pathology, *Cardiovascular Research* 2007 (73): 26-36 (senior/corresponding author)
- Sang Y, Ortega MT, Blecha F, Prakash O, Melgarejo T. Molecular cloning and characterization of three beta-defensins from canine testes. *Infection and Immunity* 2005 May (5):2611-20. (senior/corresponding author)
- Annika Linde, Nuala J. Summerfield, Matthew Johnston, Angela Keffer, Tonatiuh Melgarejo, Evelyn Ivey. Echocardiography in the Chinchilla. *Journal of Veterinary internal Medicine* 2004 (18):772-774 (collaborator)
- Gionfrido JR, Melgarejo T, Fults E, Krohne, Asem EP. Comparison of tear protein components of llama and cow. *Am J Vet Res*. 2000;61 (10):1289-93 (collaborator)
- Steiner JM, Williams DA, Moeller EM, Melgarejo T. Development and validation of an enzyme-linked immunosorbent assay for feline trypsin-like immunoreactivity. *American Journal of Veterinary Research* 2000;61:620-623 (senior author)
- Vaden SL, Hammerberg B, Davenport DJ, Orton SM, Trogon MM, Melgarejo LT, VanCamp SD, Williams DA. Gastroscopic food sensitivity testing, dietary provocation and fecal IgE in soft coated wheaten terriers with protein-losing enteropathy and/or protein-losing nephropathy. *Journal of Veterinary Internal Medicine* 2000;14:60-67 (collaborator)
- Vaden SL, Sellon RK, Melgarejo LT, Williams DA, Trogon MM, VanCamp SD, Argenzio R. Evaluation of intestinal permeability and gluten sensitivity in soft coated wheaten terriers with familial protein-losing enteropathy and/or protein-losing nephropathy. *American Journal of Veterinary Research* 2000;61:518-524 {collaborator}
- Melgarejo T, DA Williams, KDR Setchell, N O'Connell. Serum Unconjugated bile acids as a test for small intestinal bacterial overgrowth in dogs. *Digestive Diseases and Sciences*. 2000;45:407-414 (corresponding author)
- Melgarejo T, Williams DA, Asem E. Enzyme-linked immunosorbent assay for canine a1-protease inhibitor (a1-PI). *American Journal of Veterinary Research* 1998;59:127-130. (corresponding author)
- Melgarejo T, Williams DA, Griffith G. Isolation and characterization of a1-protease inhibitor (a1-PI) from canine plasma. *American Journal of Veterinary Research* 1996;57:258-263. (corresponding author)



## PATENTS

- Melgarejo T, Blecha et al. *Antimicrobial Cathelicidin Peptides*. United States Patent and Trademark Office. Docket No. 2399.002W01: US Patent No. 7,985,832. Granted July 26, 2011.
- A provisional application, Docket No. 42270-PRO (2010), titled "A Novel Class of Natural Antibiotics for the Treatment of Clinically Relevant Infectious Diseases in Cattle" Filed Aug. 2010
- Troyer D, Melgarejo T et al. *Targeted Delivery of Therapeutic Peptides, Oligonucleotides or siRNA by tethering cell surfaces*. In collaboration with the Stem Cell Institute. KSU, Manhattan, KS. KSURF Invention Disclosure No. OS- 35. Aug 2008

## FUNDING

*ACTIVE RESEARCH GRANTS*

- Nestle-Purina (2014 - 2015) Amount \$ 165,500  
Title: - "Advancing Feline Oral Health"  
PI.: T Melgarejo
- Nestle-Purina (2013 • 2014) Amount \$ 135,000  
Title: - "Advancing Canine Oral Health"  
PI.: T Melgarejo
- Kansas Bioscience Authority (2013 - 2014) Amount: \$151,000  
Title: 'Natural Water Buffalo-Derived Peptides for the Treatment of Mastitis in Dairy Cattle: proof of principle funding' P.I.: T Melgarejo

*PAST- FUNDED (selected)*

1)

GHHN600665, BG086607/01/2007-06/30/2010 "Studies on the Innate Immunity of Canis familiaris: Not familiar after all"

PI: T Melgarejo

Amount: \$400,000

Corporate Sponsor. Fort Dodge Animal Health

2)

GHHN001034, BG1307 06/01/2008-06/31/2010 "Hyena hygiene: not a laughing matter"

PI: T Melgarejo

Amount: \$500,000

Corporate Sponsor. Wyeth Pharmaceuticals

3) P20 RR017686

7/01/2003-12/30/2007

"Molecular Cloning and Characterization of a novel family of epithelial-derived host defense peptides from dog origin".

PI: D. Marcus; Co-PI: T Melgarejo

Amount: \$508,500

Program funded by the NIH, NCRP as a center for Biomedical Research excellence (COBRE) award.