

Jessica Suagee Bedore, Ph.D.

*Assistant Professor, Equine Science
Department of Agricultural Sciences
Sam Houston State University
Pirkle Engineering Technology Center
PO Box 2088
Huntsville, TX 77341*

jsbedore@shsu.edu
936-294-1218 (office)

ACADEMIC APPOINTMENTS

Assistant Professor, Equine Science

Agricultural Sciences Department
College of Science
Sam Houston State University
September 1, 2017 – Current

Assistant Professor, Equine Science

Agricultural and Engineering Technologies Division
Agricultural and Technical Institute
College of Food, Agricultural, and Environmental Science
The Ohio State University
January 1, 2013 – August 31, 2017

POST DOCTORAL TRAINING

Postdoctoral Research Associate, Department of Animal and Poultry Sciences

Virginia Polytechnic Institute and State University, Blacksburg, VA
August 2012- December 2012

Postdoctoral Research Associate, Department of Dairy Science

Virginia Polytechnic Institute and State University, Blacksburg, VA
January 2011- August 2012:

EDUCATION

Doctor of Philosophy, Animal and Poultry Science

Department of Animal and Poultry Sciences
Virginia Polytechnic Institute and State University
Conferred: December 2010

Dissertation: Regulation of nutrient metabolism in equine skeletal muscle and adipose tissue.

Committee chairs: Eric Wong, PhD and Benjamin Corl, PhD

Former chair: Raymond Geor, BVSc, PhD

Master of Science, Animal Science

Department of Animal and Avian Science

University of Maryland, College Park

Conferred: May 2007

Thesis: Effects of diet and weight gain on subcutaneous body fat accretion patterns and adipocytokine production in Thoroughbred geldings

Committee chair: Amy Burk, PhD

Bachelor of Science, Nutritional Science

Department of Nutrition and Food Science

University of Maryland, College Park

Conferred: May 2005

Advisor: Thomas Castonguay, PhD

HONORS AND AWARDS

Research Awards

2009 1st Place Graduate Student Oral Competition in Production and Management, Equine Science Society

2009 2nd Place Graduate Student Poster Competition, 8th Annual Mid-Atlantic Nutrition Conference

Fellowship and Academic Awards

2007 John Lee Pratt Fellowship in Animal Nutrition, Virginia Polytechnic Institute and State University

2005 Research Fellowship at the Center for Food Safety and Applied Nutrition, administered by the Oak Ridge Associated Universities, through a contract with the U.S. Food and Drug Administration

2004 University Honors Citation, University of Maryland College Park, MD

ACADEMIC POSITIONS

September 2010 – December 2010: Doctoral Student/Graduate Research Assistant, Department of Animal and Poultry Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA

August 2007 – August 2010: Doctoral Student/John Lee Pratt Fellow in Animal Nutrition, Department of Animal and Poultry Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA

August 2005 – May 2007: Graduate Research Assistant, Department of Animal and Avian Science, University of Maryland, College Park, MD

May 2005 – September 2005: Research Assistant, Department of Toxicology, Center for Food Safety and Applied Nutrition, Food and Drug Administration, Laurel, MD

September 2004 – May 2005: Undergraduate Research Assistant, Department of Animal and Avian Science, University of Maryland, College Park, MD

January 2003 – May 2005: Undergraduate Research Assistant, Department of Toxicology, Center for Food Safety and Applied Nutrition, Food and Drug Administration, Laurel, MD

TEACHING

Courses Taught

Sam Houston State University

Course	Semester	Enrollment	Student Evaluation (scale 1-5)
10. AGED 5364. Advanced Problems in Vocational Agriculture. 1-6 credits.	Spring 2018	1-6 credits 1-3 credits	NA
9. AGRI 4096. Directed Studies. 1-6 credits.	Summer 2018	1-3 credits	NA
	Spring 2018	1-3 credits	NA
	Fall 2017	1-6 credits 1-3 credits	NA
8. AGRI 5369. Advanced Equine Exercise Physiology. 3 credits.	Fall 2018	1	NA
7. AGRI 5369: Advanced Equine Facility Management. 3 credits.	Spring 2018	6	4.6
6. AGRI 5379: Advanced Equine Nutrition. 3 credits.	Fall 2017	8	4.9

5. EQSC 4369: Foaling Practicum. 3 credits.	Spring 2018	10	4.9
4. EQSC 4369: Equine Facilities Maintenance. 3 credits.	Spring 2018	8 *1 Honors Contract	4.7
3. EQSC 2390. Equine Selection and Evaluation. 3 credits.	Fall 2017	11	4.2
2. EQSC 4369: Equine Exercise Physiology. 3 credits.	Fall 2017	20	4.2
1. EQSC 4379: Equine Nutrition. 3 credits.	Fall 2017	9	4.4

The Ohio State University

Course	Semester	Enrollment	Student Evaluation (scale 1-5)
9. GRADSCH 4501: Summer Research Opportunities	Summer 2013	8	NA
8. ANMLTEC 3201T: Horse Judging and Evaluation. 2 credits (1 lecture, 1 3 hour lab section)	Spring 2017	4	NA
	Spring 2016	16	4.9
	Spring 2015	32	4.5
	Spring 2014	27	4.3
	Spring 2013	20	2.6
7. ANMLTEC 3131T: Equine Nutrition and Feeding. 2 credits (1 lecture, 1 3 hour lab section)	Spring 2017	14	4.8
	Spring 2016	19	4.3
	Spring 2015	17	4.7
	Spring 2014	11	4.7
	Spring 2013	15	4.4
6. ANMLTEC 3130T: Principles of Animal Nutrition. 2 credits (2 lectures)	Spring 2017	25	4.0
	Autumn 2016	42	3.7
	Spring 2016	51	3.5
	Autumn 2015	57	4.2
	Spring 2015	60	3.9
	Spring 2014	36	3.7
	Autumn 2013	15	4.2
5. ANMLTEC 3101T: Equine Marketing and Facilities Management. 4 credits (3 lectures, 1 2 hour lab section, 1 recitation)	Autumn 2016	14	4.7
	Autumn 2015 (team taught)	23	4.8

4. ANMLTEC 3101T: Equine Facilities Maintenance and Management. 3 credits (1 lecture, 1 3 hour lab section)	Autumn 2014	17	4.2
3. ANMLTEC 3111T: Equine Sales Preparation and Marketing. <i>*Underwent curriculum restructure and was combined with ANMLTEC 3101T in Autumn 2015 semester. 3 credits (3 lectures, 1 2 hour lab section)</i>	Autumn 2014 (team taught)	15	4.1
	Autumn 2013	17	2.7
2. ANMLTEC 2201T: Introduction to Horse Science. 3 credits (2 lectures, 2 2 hour lab sections).	Autumn 2016	20	4.6
	Autumn 2015	29	4.9
	Autumn 2014	40	4.8
	Autumn 2013	28	4.5
1. ANMLTEC 2193T: Individual Studies. 1-2 credits.	Spring 2016	8	NA
	Spring 2015	2	NA
	Spring 2013	1	NA

Virginia Tech

Course	Semester	Enrollment	Student Evaluation
2. APSC 4994: Undergraduate Research. 1 credit	Spring 2009	1	NA
1. APSC 4424: Horse Production and Management. 4 credits (3 lectures, 3-3 hour lab sections)	Spring 2010	65	NA

Short Courses

The Ohio State University

2. June 2014. Assessing Horse Health
75 minute session, The Ohio Agricultural Education Conference
Enrollment: 6 students
1. June 2013. Assessing Horse Health
75 minute session, The Ohio Agricultural Education Conference
Enrollment: 11 students

Guest Lectures

As Assistant Professor at Ohio State

5. April 2017. *Forage quality metrics*. CROPSOIL 2241: Forage Crops. 1 lecture
4. April 2016. *Forage quality metrics*. CROPSOIL 2241: Forage Crops. 1 lecture
3. November, 2015. *Horse handling*. ANMLTEC 2201T: Introduction to Animal Science. 1 Lab (6 sections).
2. April 2015. *Forage quality metrics*. CROPSOIL 2241: Forage Crops. 1 lecture
1. November 2013. *Measuring Gene Expression*. ANIMALTEC 3150T: Livestock Genetic Improvement. 1 lecture.

As Post-Doctoral Researcher at Virginia Tech

9. September 2012. *Respiratory Physiology*. ALS 5304: Advanced Domestic Animal Physiology. 2 lectures.
8. August 2012. *Gastrointestinal Physiology of Sheep and Pigs*. Governor's School for Agriculture. 3 lectures, 2 labs.
7. April 2012. *Introduction to Equine Nutrition*. ALS 3204: Animal Nutrition and Feeding. 1 lecture.
6. February 2012. *Gastrointestinal Physiology*. ALS 2304: Anatomy and Physiology. 2 lectures.
5. November 2011. *Gastrointestinal Physiology*. ALS 5304: Advanced Domestic Animal Physiology. 3 lectures.
4. October 2011. *Respiratory Physiology*. ALS 5304: Advanced Domestic Animal Physiology. 3 lectures.
3. October 2011. *Introduction to Horse Handling*. APSC 1464: Introduction to Animal and Poultry Sciences. 1 lab (6 sections).
2. August 2011. *Gastrointestinal Physiology of Sheep and Pigs*. Governor's School for Agriculture. 1 lecture, 2 labs.
1. April 2011. *Exercise Physiology of Horses*. APSC 4424: Horse Production and Management. 3 lectures, 1 lab (3 sections).

As Doctoral Student at Virginia Tech

9. October 2011. *Introduction to Horse Handling*. APSC 1464: Introduction to Animal and Poultry Sciences. 1 lab (6 sections).
8. March 2010. *Introduction to Equine Nutrition*. ALS 3204: Animal Nutrition and Feeding. 1 lecture.
7. October 2009. *Introduction to Equine Nutrition*. ALS 3204: Animal Nutrition and Feeding. 1 lecture.
6. March 2009. *Carbohydrate Metabolism*. ALS 3204: Animal Nutrition and Feeding. 3 lectures.
5. March 2009. *Lipid Metabolism*. ALS 3204: Animal Nutrition and Feeding. 3 lectures.
4. March 2009. *Protein Metabolism*. ALS 3204: Animal Nutrition and Feeding. 3 lectures.
3. April 2009. *Introduction to Equine Nutrition*. ALS 3204: Animal Nutrition and Feeding. 1 lecture.

2. April 2009. *Companion Animal Nutrition*. ALS 3204: Animal Nutrition and Feeding. 1 lecture.
1. October 2008. *Introduction to Equine Nutrition*. ALS 3204: Animal Nutrition and Feeding. 1 lecture.

As Masters Student at the University of Maryland

1. March 2007. *Pasture Management for Horses*. ANSC 232: Horse Management. 1 lecture.

Teaching Assistant Assignments

As Doctoral Student at Virginia Tech

2. Spring 2009. ALS 2304: Animal Nutrition and Feeding. 3 credits. Lecture Teaching Assistant.
1. Spring 2008. ALS 2304: Animal Nutrition and Feeding. 3 credits. Lecture Teaching Assistant.

As Masters Student at the University of Maryland

3. Spring 2007. ANSC 232: Horse Management. 3 credits. Lecture Teaching Assistant and Laboratory Instructor.
2. Fall 2006. ANSC 220: Livestock Management. 3 credits. Lecture Teaching Assistant and Laboratory Instructor.
1. Spring 2006. ANSC 232: Horse Management. 3 credits. Lecture Teaching Assistant and Laboratory Instructor.

Undergraduate Research Mentoring Experience

5. *Mitchell Gissinger, A.A.S.*, Undergraduate Research Assistant, Nutritional Evaluation of Sprouted Barley
 - Current Position: Veterinary Technician
4. *Erin Morgan, BS*, Undergraduate Research Assistant, Use of Hay Nets to Reduce Hay Waste and Body Condition of Overweight Horses.
 - Current Position: Animal Care Technician
3. *Alexandra McMillion, DVM*, Undergraduate Research Assistant, Plasma lipid composition of divergent species.
 - Current Position: Veterinarian
2. *Candace Flinn, BS*, Middleburg Agricultural Research and Extension Center Summer Research Intern, Glucose and insulin responses of non-obese horses consuming diets differing in non-structural carbohydrate content.
 - Current Position: Research Technician
1. *Alexander Fiktus, DVM*, Undergraduate Research Assistant, Glucose and insulin responses of non-obese horses consuming diets differing in non-structural carbohydrate content.
 - Current Position: Veterinarian

Higher Education Teaching Conferences and Seminars Attended

11. National Association of Equine Affiliated Academics, June, 2018, Stephenville, TX.
10. 14th Annual SHSU Teaching & Learning Conference, August, 2017, Huntsville, TX.
9. National Association of Equine Affiliated Academics, July 2017, St. Paul, MN.
8. National Association of Equine Affiliated Academics, July 2015, St. Pete's Beach, FL.
7. National Association of Equine Affiliated Academics, July 2013, Ruidoso, NM.
6. Blended Learning Course Design: A Boot Camp for Instructors, March 2013, Atlanta, GA.
5. Webinar: ECHO360 Event: Snacking on Substance, Active Learning Cuts Rich Course Content into Bite Sized Chunks, March 2013, Hosted by Michigan State University.
4. Seminar: Innovations and the Use of Technology in Teaching, March 2012, Blacksburg, VA.
3. Conference on Higher Education Pedagogy, February 2012, Blacksburg, VA.
2. National Association of Equine Affiliated Academics, July 2011, Murfreesboro, TN.
1. National Association of Equine Affiliated Academics, August 2010, Cazenovia, NY.

Trainings Attended or Completed

2. Blackboard Ally: Making Course Content Accessible, Training in Progress, Blackboard Online Course.
1. VoiceThread in Blackboard, January 22, 2018. Online Webinar.

ADVISING

M.S. Thesis Graduate Student Advisement, SHSU

2. Timber Thomson, expected graduation Fall 2019
1. Lonna Holland, expected graduation Spring 2019

M.S. Non-Thesis Graduate Student Advisement, SHSU

5. Janel Gibson, expected graduation Spring 2019
4. Holly Oliva, expected graduation Fall 2019
3. Savannah Kirkland, expected graduation Spring 2019
2. Carolyn Contreras, expected graduation Fall 2018
1. Danielle McCants
 - Graduated Spring 2018

M.S. Thesis Committee memberships

3. Matlin Sain, M.S. student, Sam Houston State University
Advisor: Kyle Stutts, Ph.D.
 - Thesis defended 6/1/18
2. Katlyn Delano, M.S. student, Virginia Tech
Advisor: Bridgett McIntosh, Ph.D.
 - Thesis defended 9/12/17
 - Current position: Sales rep at Equinutrix, Virginia, USA
1. Yeting Shen, M.S. student, Murray State University
Advisor: Shea Porr, Ph.D.
 - Thesis defended: 6/17/2015
 - Current position: Assistant Manager at Unbridled China, Beijing, China

Undergraduate Students, OSU

2016-2017	25 undergraduate advisees
2015-2016	27 undergraduate advisees
2014-2015	27 undergraduate advisees
2013-2014	46 undergraduate advisees

UNIVERSITY SERVICE

-Sam Houston State University-

Department of Agricultural Sciences

3. Negotiated funding for new ultrasound machine
 - Funding from Office of Research and Sponsored Programs and College
 - \$30,050
2. 4-H Day at Pirkle, 11/10/17
 - Co-taught 3 sessions on animal science research (w/ Dr. Anderson)
1. Saturday @ Sam, 11/11/17
 - Attended one session with prospective students

Equine Program

4. Horse Judging Team, Faculty Advisor
 - Participate in monthly meetings with team coach
 - Assist with planning judging trips
3. Ranch Horse Team, Faculty Advisor
 - Participate in monthly meetings regarding planning and fundraising
 - AY 2017-2018
 - Negotiated coaching activities stipend for Ms. Kalley Fikes, M.S. (coach)
2. Collegiate Horsemen's Association, Faculty Advisor
 - Meet bi-weekly with club leadership
 - AY 2017-2018
 - Working with club to develop goals and constitution
1. Equine facility supervisor
 - AY 2017-2018
 - Revised boarding contracts for academic year, developed boarding contracts for Ranch Horse Team members and day use by instructors
 - Revised IACUC SOP "Rules and Regulations for Equine Handling Laboratory" to reflect the following: 1) SHSU has a "no pets" policy and 2) that horses used for EQSC 3340 are not to be handled outside of classroom hours
 - Coordinated graduate student training for use of the Kubota tractor
 - Negotiated purchase and installation of gates for 3 existing, ungated entrances to facility
 - Obtained 14 privately owned horses to be used for teaching EQSC 3340
 - Ordered and coordinated delivery of feed and bedding for EQSC 3340

- Managed horse boarding operations for 5 student boarders at the indoor arena: coordinated regular removal of manure trailers, delivery of hay on a weekly basis, repair of broken hoses, buckets, stall boards
- Supervised clean up and repair of facilities in preparation for AY 2017-2018: fixed broken stall boards, leveled stall floors, replaced broken hoses and buckets
- Coordinated facility workers to fix drainage around barn and tractor lab roll-up doors
- Met with Risk Management to discuss needed changes at the equine center
- Began discussions with the General Counsel office about developing necessary contracts for transporting privately owned horses to outside events

-The Ohio State University-

The Graduate School

3. Oral competition judge, Edward F. Hayes Graduate Research Forum, February, 2017
2. Abstract reviewer, Edward F. Hayes Graduate Research Forum, November, 2016
1. Poster competition judge, Edward F. Hayes Graduate Research Forum, February, 2015

College of Food, Agriculture, and Environmental Sciences

3. Ohio State ATI Director's search committee. 1/2016-5-2017
2. Animal Sciences cluster hire search committee. 1/2015-3/2015
1. Ohio State ATI Re-Envisioning Committee. 11/2013-6/2015

Agricultural Technical Institute

11. Grace Drake Agricultural Laboratory management committee, Budget subcommittee. 5/2016-12/2016.
10. Horse Herd Manager search committee chair. 5/2016-7/2016
9. Dairy Lecturer search committee. 3/2016-5/2016
8. ATI Faculty Senate. 9/2015-9/2017
7. Academic Counselor search committee. 3/2016-5/2016
6. Academic Affairs committee. 9/2015-9/2017
5. Teaching Committee. 9/2014-9/2016
4. Grader, FFA Skills and Engines Contest
Wooster, OH, April 2017
3. Grader, FFA Skills and Engines Contest
Wooster, OH, April 2014
2. Grader, FFA Skills and Engines Contest
Wooster, OH, April 2013
1. Club Advisor, Collegiate Horseman's Association
The Ohio State University-ATI

February 2013-Present

State 4-H Horse Program

1. Judge, Senior Hippology Contest
Wooster, OH, June 2013

-Virginia Tech-

State 4-H Horse Program

7. Virginia State 4-H Horse Show, Stable Management Competition Judge, September 2011
6. Virginia State 4-H Horse Show, Stable Management Competition Judge, September 2010
5. Virginia State 4-H Horse Show, Restructured Stable Management Competition guidelines, September-March 2009
4. Virginia State 4-H Horse Show, Stable Management Competition Judge, September 2009
3. Virginia State 4-H Horse Show, Stable Management Competition Judge, September 2008
2. Southern Regional 4-H Horse Show. Oral Presentation Judge, July 2008
Virginia 4-H Congress, Oral presentation Judge, Horse Bowl Senior Division Judge, June 2008
1. Virginia State 4-H Horse Show, Stable Management Competition Judge, September 2007

Departments of Animal and Poultry Sciences and Dairy Science

3. *President:* Dairy, Animal, and Poultry Science Graduate Student Association, December 2007 – December, 2008
2. *APSC Department Delegate:* Graduate Student Assembly of Virginia Tech, January, 2008 – September, 2008
1. *Program Assistant:* Academic Quadrathlon, January, 2008

-University of Maryland-

State 4-H Horse Program

6. Maryland 4-H Horse Jamboree. Developed and conducted horse nutrition Jeopardy game for 13-16 year olds, July 2007
5. Maryland 4-H Horse Jamboree. Senior Division Oral Presentation Judge, July 2006
4. Maryland 4-H Horsemanship Standards. Helped develop examiner certification system, including writing 4 written examiner certification tests, 2006

3. Maryland 4-H State Horse Bowl Contest. Junior and Intermediate Division Judge, March 2007
2. Maryland 4-H State Horse Bowl Contest. Junior and Intermediate Division Judge, March 2006
1. Maryland 4-H State Horse Bowl Contest. Junior and Intermediate Division Judge, March 2005

Department of Animal and Avian Sciences

4. *Vice President:* Animal Science Graduate Student Association, December 2005 – December 2006
3. *Graduate Advisor:* University of Maryland Equestrian Club, August 2005 – May 2007
2. *Graduate Advisor:* Sigma Alpha Professional Agricultural Sorority, August 2005 – May 2006
1. *President:* University of Maryland Equestrian Club, May 2003 – May 2005

COMMUNITY SERVICE

4. April, 2018. Area IX CDE Horse Judging Contest. Coordinated judging contest with SHSU Horse Judging Coach. Attendance: 200 contestants
3. February 2018. Horse Discovery at the San Antonio Livestock Show and Rodeo. Four sessions over two days on working safely with horses and how to tack up a horse. Attendance: 25 per session
2. April, 2014. What is Animal Science? A presentation to 5th grade science students at Black River Schools. Homerville, Ohio. 60 minute presentation. Attendance: 90
1. August 2011. Components of Horse Feed. Horseplay 4H Club meeting. Christiansburg, Virginia. 90 minute presentation. Attendance: 10

PROFESSIONAL MEMBERSHIP AND ACTIVITIES

Membership

Equine Science Society
American Society of Animal Science
American Registry of Professional Animal Scientist (Equine)
North American Colleges and Teachers of Agriculture
National Association of Equine Affiliated Academics

Meetings Attended

20. Joint CSAS-ASAS Annual Meeting, July 2018, Vancouver, Canada
19. American Society of Animal Science Southern Section Meeting, February 2018, Fort Worth, TX.

18. Equine Science Society, May 2017, St. Paul, MN.
17. American Society of Animal Science, July 2016, Salt Lake City, UT.
18. Equine Science Society, May, 2015, St. Pete's Beach, FL.
17. American Society of Animal Science, July, 2014, Kansas City, MO.
16. Equine Science Society, May 2013, Ruidoso, NM.
15. Equine Science Society, July 2011, Murfreesboro, TN.
14. Joint ADSA-PSA-AMPA-CSAS-ASAS Meeting, July 2010, Denver CO.
13. ACVIM Forum, June 2010, Anaheim, CA.
12. American Academy of Veterinary Nutrition, June 2010, Anaheim, CA.
11. Joint ADSA-CSAS-ASAS Annual Meeting, July 2009, Montreal, Quebec, Canada.
10. ACVIM Forum, June 2009, Quebec, Montreal, Canada.
9. American Academy of Veterinary Nutrition, June 2009, Quebec, Montreal, Canada.
8. Equine Science Society, May 2009, Keystone CO.
7. Experimental Biology 2009, April 2009, New Orleans LA.
6. Mid-Atlantic Nutrition Conference, March 2009, Timonium, MD.
5. Deans' Forum on Health, Food and Nutrition (Virginia Tech), November 2007, Blacksburg VA.
4. Equine Science Society, June 2007, Hunt Valley, MD.
3. Mid-Atlantic Nutrition Conference, March 2007, Timonium, MD.
2. Mid-Atlantic Nutrition Conference, March 2006, Timonium, MD.
1. 2006 FDA Science Forum, April 2006, Washington, D.C.

Professional Society Service

3. Judge: Graduate Student Oral Competition- Biosciences Section, Equine Science Society meeting, St. Paul, MN, 2017.
4. Member: Equine Biosciences Committee- Equine Science Society
3. Judge: Graduate Student Oral Competition- Nutrition Section, Equine Science Society meeting, Mescalero, NM, May, 2013.
2. Moderator and Chair: Graduate Student Professional Development session, Equine Science Society meeting, Murfreesboro, TN, June 2011.
1. Graduate Representative to the Board, Equine Science Society. June 2009-June 2011.

Peer Review Service

2018

1. Domestic Animal Endocrinology, 1 manuscript

2017

3. Domestic Animal Endocrinology, 1 manuscript
2. Journal of Equine Veterinary Science, 2 manuscripts
1. American Journal of Veterinary Research, 1 manuscript

2016

2. Journal of Equine Veterinary Science, 2 manuscripts
1. Acta Veterinaria Scandinavica, 1 manuscript

2015

3. The Veterinary Journal, 2 manuscripts
2. Journal of Equine Veterinary Science, 1 manuscript
1. American Journal of Veterinary Research, 1 manuscript

2014

5. Journal of Animal Physiology and Animal Nutrition, 1 manuscript
4. Journal of Equine Veterinary Science, 1 manuscript
3. Inflammation Research, 1 manuscript
2. Equine Veterinary Journal, 1 manuscript
1. Environmental Management, 1 manuscript

2013

3. American Journal of Veterinary Research, 1 manuscript
2. World Journal of Microbiology and Biotechnology, 1 manuscript
1. Journal of Equine Veterinary Science, 2 manuscripts

2012

4. American Journal of Veterinary Research, 1 manuscript
3. Journal of Equine Veterinary Science, 1 manuscript
2. Comparative Biochemistry and Physiology, 1 manuscript
1. Journal of Dairy Science, 2 manuscripts

2009

1. Journal of Dairy Science, 1 manuscript

PUBLICATIONS AND PRESENTATIONS

Publication Summary

Journal Title	Impact Factor	Scientific Articles Published	Review Articles Published	Citations
TOTAL		18	3	376
2018		1	0	1
Journal of Equine Veterinary Science	0.892	1	0	0
2017		1	0	1
Journal of Equine Veterinary Science	0.892	1	0	0
2015		1	0	1
Journal of Equine Veterinary Science	0.892	1	0	1
2013		6	2	208
Advances in Nutrition	4.891		1	59
Journal of Animal Science	2.108		1	33
Lipids	2.353	1		6
Journal of Veterinary Internal Medicine	2.224	2		72
Journal of Animal Physiology and Animal Nutrition	1.317	1		8
Equine Veterinary Journal	2.369	1		
Journal of Dairy Science	2.550	1		30
2012		1	1	21
animals			1	5
Veterinary Immunology and Immunopathology	1.748	1		16
2011		5	0	84
Domestic Animal Endocrinology	1.783	1		26
Journal of Veterinary Internal Medicine	2.224	1		13
Journal of Animal Physiology and Animal Nutrition	1.317	1		12
Veterinary Immunology and Immunopathology	1.748	1		21
Journal of Veterinary Pharmacology and Therapeutics	1.323	1		12

2010		1	0	24
Comparative Biochemistry and Physiology: B	1.904	1		24
2008		1	0	23
Journal of Equine Veterinary Science	0.892	1		23
2007		1		15
Journal of Applied Toxicology	3.174	1		15

Invited Reviews

3. Rhoads, R.P., Baumgard, L.H., and **J.K. Suagee**. 2013. *Invited Review: 2011 and 2012 Early Careers Achievement Awards: metabolic priorities during heat stress with an emphasis on skeletal muscle. Journal of Animal Science.* 91(6):2492-2503.
<http://www.journalofanimalscience.org/content/early/2013/02/12/jas.2012-6120.abstract>.
2. Rhoads, R. P., Baumgard, L. H., **Suagee, J. K.**, and S. R. Sanders. 2013. *Invited Review: Nutritional Interventions to alleviate the negative consequences of heat stress. Advances in Nutrition.* 4:267-276.
<http://advances.nutrition.org/content/4/3/267.abstract?etoc>
1. **Suagee, J. K.**, B. A. Corl, and R. J. Geor. 2012. Review: Potential Role for Pro-Inflammatory Cytokines in the Development of Insulin Resistance in Horses. *animals.* 2(2): 221-241. **Article belongs to the Monogastric Animal Nutrition and Metabolism Special Issue.*
<http://www.mdpi.com/2076-2615/2/2/243>

Accepted and Published Peer Reviewed Journal Articles

18. **Suagee-Bedore, J. K.***, A. L Wagner, and I. D. Girard. Feeding DigestaWell® Buffer to horses alters the effects of starch intake on blood pH, LPS, and interleukin-1 β . 2018. *Journal of Equine Veterinary Science.* 61:36-45
17. **Suagee-Bedore, J. K.***, A. L. Wagner, I. D. Girard. Validation of the postprandial interleukin-1 β response in horses using equine-specific antibodies. 2017. *Journal of Equine Veterinary Science.* 48: 69-72.
<http://www.sciencedirect.com/science/article/pii/S073708061630377X>
16. **Suagee, J.K.***, R. K. Splan, K. L. Swyers, R. J. Geor, B. A. Corl. Effects of High-Sugar and High-Starch Diets on Postprandial Inflammatory Protein Concentrations in Horses. 2015. *Journal of Equine Veterinary Science.* 35: 191-197.
<http://www.sciencedirect.com/science/article/pii/S0737080614004754>
15. Stamey, J. A., **J. K. Suagee**, A. Becqvar, and B. A. Corl. 2013. Mammary uptake of fatty acids varying in chain length supplied by intravenous triglyceride infusion. *Lipids.* 48(5):469-479.
<http://dx.doi.org/10.1007/s11745-013-3782-6>
14. R. S. Pleasant, **J. K. Suagee**, C.D. Thatcher, F. Elvinger, and R. J. Geor. 2013. Plasma insulin, leptin, lipids, and oxidative stress in a population of mature light-breed horses: Relationships to Adiposity. *Journal of Veterinary Internal Medicine.* 27(3):576-582.
<http://onlinelibrary.wiley.com/doi/10.1111/jvim.12056/abstract>
13. **Suagee J. K.**, B. A. Corl, K. L. Swyers, T. L. Smith, C. D. Flinn, and R. J. Geor. 2013. A 90 day adaptation to a high glycemic diet alters post-prandial lipid metabolism in non-obese horses without affecting peripheral insulin

- sensitivity. *Journal of Animal Physiology and Animal Nutrition*. 97(2):245-254.
<http://dx.doi.org/10.1111/j.1439-0396.2011.01261.x>
 Journal impact factor: 1.106.
12. **Suagee, J. K.**, B. A. Corl, M. V. Crisman, R. S. Pleasant, C. D. Thatcher, and R. J. Geor. 2013. Relationships between body condition score and plasma inflammatory cytokines, insulin, and lipids in a population of mixed-light breed horses. *Journal of Veterinary Internal Medicine*. 27(1):157-163.
<http://dx.doi.org/10.1111/jvim.12021>
 Journal impact factor: 2.277.
 11. **Suagee, J. K.** and B. A. Corl. 2013. Short Communication: An explant based method for differentiating adipocytes from equine adipose tissue. *Equine Veterinary Journal*. 45(1):114-116.
<http://dx.doi.org/10.1111/j.2042-3306.2012.00581.x>
 10. Oppi-Williams^a, C., **J. K. Suagee^a**, and B. A. Corl. 2013. Regulation of lipid synthesis by LXR α and SREBP1 in mammary epithelial cells. *Journal of Dairy Science*. 96(1):112-121. ^a*Equal Contribution*.
<http://dx.doi.org/10.3168/jds.2011-5276>
 Journal impact factor: 2. 564.
 9. Wearn, J. G., **J. K. Suagee**, B. A. Corl, M. V. Crisman, M. W. Hulver, R. J. Geor, L. J. McCutcheon. 2012. Effects of the insulin sensitizing drug, pioglitazone, and lipopolysaccharide administration on inflammation and clinical parameters in horses. *Veterinary Immunology and Immunopathology*. 145(1-2):42-49.
<http://dx.doi.org/10.1016/j.vetimm.2011.10.007>
 8. **Suagee, J. K.**, B. A. Corl, M. W. Hulver, M. V. Crisman, L. J. McCutcheon, and R. J. Geor. 2011. Effects of acute hyperinsulinemia on inflammatory proteins in horses. *Veterinary Immunology and Immunopathology*. 142:141-146.
<http://dx.doi.org/10.1016/j.vetimm.2011.05.001>
 7. Wearn, J. M. G., M. V. Crisman, J. L. Davis, R. J. Geor, D. R. Hodgson, **J. K. Suagee**, M. Ashraf-Khorassani, and L. J. McCutcheon. 2011. Pharmacokinetics of pioglitazone in horses after multiple dose oral administration. *J. Vet. Pharmacol. Therapeut*. 34:252-258.
<http://dx.doi.org/10.1111/j.1365-2885.2010.01217.x>
 6. **Suagee, J. K.***, A. O. Burk, R. W. Quinn, T. G. Hartsock, and L. W. Douglass. 2011. Effects of diet and weight gain on serum TNF- α concentrations in Thoroughbred geldings. *Journal of Animal Physiology and Animal Nutrition*. 95:161-170.
<http://dx.doi.org/10.1111/j.1439-0396.2010.01036.x>
 5. **Suagee, J. K.**, B. A. Corl, J. G. Wearn, M. V. Crisman, M. W. Hulver, R. J. Geor, and L. J. McCutcheon. 2011. Effects of the insulin sensitizing drug, pioglitazone, and lipopolysaccharide administration on insulin sensitivity in

horses. *Journal of Veterinary Internal Medicine*. 25:356-364.

<http://dx.doi.org/10.1111/j.1939-1676.2011.0681.x>

4. **Suagee, J. K.**, B. A. Corl, M. W. Hulver, L. J. McCutcheon, and R. J. Geor. 2011. Effects of hyperinsulinemia on glucose and lipid transporter expression in insulin-sensitive horses. *Domestic Animal Endocrinology*. 40:173-181.
<http://dx.doi.org/10.1016/j.domaniend.2010.11.002>
3. **Suagee, J. K.**, B. A. Corl, M. V. Crisman, J. G. Wearn, L. J. McCutcheon, and R. J. Geor. 2010. *De novo* fatty acid synthesis and NADPH generation in equine adipose and liver tissue. *Comp. Biochem. Phys. B*. 155:322-326.
<http://dx.doi.org/10.1016/j.cbpb.2009.11.019>
2. **Suagee, J. K.**, A. O. Burk, R. W. Quinn, E. D. Petersen, T. G. Hartsock, and L. W. Douglass. 2008. Effects of Diet and Weight Gain on Body Condition Scoring in Thoroughbred Geldings. *Journal of Equine Veterinary Science*. Sci. 28: 156-166.
<http://dx.doi.org/10.1016/j.jevs.2008.01.019>
1. Wiesenfeld, P. L., L. H. Garthoff, T. J. Sobotka, **J. K. Suagee**, and C. N. Barton. 2007. Acute oral toxicity of colchicine in rats: effects of gender, vehicle matrix and pre-exposure to lipopolysaccharide. *Journal of Applied Toxicology*. 27:421-433.
<http://dx.doi.org/10.1002/jat.1198>

*Denotes corresponding author publications

Articles in Preparation for Submission to Peer Reviewed Journals

1. **Suagee-Bedore, J. K.***, Y. Shen, S. Porr, K. Bennett-Wimbush, I. Girard, A. L. Wagner. Impacts of DigestaWell NRG® supplementation on post exercise muscle soreness in untrained horses. In preparation for submission to *J. Equine Vet. Sci.*

Articles Submitted for Publication in Peer Reviewed Journals

2. K. Bennett-Wimbush, J. **Suagee-Bedore**, M. Amstutz, and M. Duthie. Effects of overcheck use on stress parameters and welfare implications in driving horses. Submitted to *Journal of Applied Animal Welfare* 12/17
1. **Suagee-Bedore, J. K.***, D. Linden, K. Bennett-Wimbush. Use of a semester long assignment to enhance knowledge of equine body condition scoring. Submitted to *NACTA J* 5/22/18.

Invited Conference Proceedings

3. **Suagee, J. K.**, B. A. Corl, C. D. Flinn, and R. J. Geor. The glycemic/insulinemic response of horses to three diets. 2010 ACVIM Forum, Anaheim, CA, June 9-12. AAVN/ACVN (Equine) Comprehensive Review session.

Presenter (oral)

In: 2010 ACVIM Forum Proceedings, p. 63, Paper # 138a.

2. **Suagee, J. K.**, B. A. Corl, and R. J. Geor. Importance of volatile fatty acid metabolism for horses. 2010 ADSA-PSA-AMPA-CSAS-ASAS Joint Annual Meeting, Denver, CO, July 11-15. Nonruminant Nutrition Symposium: Rethinking Equine Nutrition.

Presenter (oral)

In: J. Anim. Sci. 88 (E Suppl 2):286. Paper # 356.

1. Quinn, R. W., A. O. Burk, **J. K. Suagee** and T. G. Hartsock. Equine obesity: implications for health and strategies for control. 2006 Mid-Atlantic Nutrition Conference, Timonium, MD, March 29-30. Equine Nutrition Session.

In: 2006 Proceedings of the 4th Mid-Atlantic Nutrition Conference.

Abstracts Presented at Conferences

35. K. Bennett-Wimbush, **J. K. Suagee-Bedore**, M. Amstutz. Acclimation reduces stress in adult horses tied in visual isolation. Presented at the 2018 Joint CSAS-ASAS Annual Meeting.

34. **J. K. Suagee-Bedore**, S. J. Hebrock, B. A. Corl, A. J. Lengi, O. Sundin, K. Cole, and M. Worth. Six months of dietary supplementation with LinPro® improves hoof growth rates of mature mares. Presented at the 2018 Joint CSAS-ASAS Annual Meeting.

Presenter (poster)

33. K. Bennett-Wimbush, C. A. Sharp, **J. K. Suagee-Bedore**. A survey of Australian shepherd breeding practices and genetic diversity. Presented at the 2018 Joint CSAS-ASAS Annual Meeting.

32. **J. K. Suagee-Bedore**, Janini, T., Flad, J., Bennett-Wimbush, K., Amstutz, M., Osborne, J. M. and D. R. Linden. Prior completion of general chemistry improves success in animal nutrition. Presented at the 2018 Joint CSAS-ASAS Annual Meeting.

Presenter (poster)

31. **J. K. Suagee-Bedore** and S. J. Hebrock. Managing a rotational grazing site improves student knowledge of pasture management. Presented at the 2018 meeting of the National Association of Equine Affiliated Academics.

Presenter (oral)

In: 2018 NAEAA Proceedings.

30. M. A. Sain, K. J. Stutts, M. J. Anderson, **J. K. Suagee-Bedore**, and J. L. Leatherwood. Evaluation of a starter ration on growth and performance of

white-tailed deer fawns. 2018 Southern Section American Society of Animal Science Meeting, February 3-6.

In: 2018 J. Anim. Sci. 96 (Suppl. 1):12. Abstract # 12.

29. T. M. Hess, S. U. Braun, **J. Suagee-Bedore**, P. E. Graham, K. Herkelman. The Effects of Various Levels of Docosahexaenoic Acid (DHA) on Inflammatory Markers in Conditioned Horses During Lactate Threshold Tests. 2017 American Academy of Veterinary Nutrition 17th Annual Clinical Nutrition and Research Symposium, National Harbor, MD, June 7.

In: 2017 J. Anim. Physiol. Anim. Nutr. 101:1069.

28. **J. K. Suagee-Bedore** and D. R. Linden. Morphometric comparisons of draft, pony, and horse breeds. Presented at the 2017 Equine Science Society Symposium.

Presenter (poster)

In: 2017 J. Equine Vet. Sci. 52:94. Abstract # 126.

27. K. Bennett-Wimbush, **J. Suagee-Bedore**, M. Amstutz. Acclimation reduces cortisol in horses tied with overchecks. Presented at the 2017 Equine Science Society Symposium.

In: 2017 J. Equine Vet. Sci. 52:106. Abstract # 151.

26. Y. Shen, S. Porr, A. L. Wagner, I. D. Girard, **J. K. Suagee-Bedore**, K. Bennett-Wimbush. Impacts of DigestaWell NRG supplementation on post exercise muscle soreness in untrained horses. Presented at the 2017 Equine Science Society Symposium.

In: 2017 J. Equine Vet. Sci. 52:69. Abstract # 68.

25. **J. K. Suagee-Bedore**, K. Bennett-Wimbush, D. R. Linden. Drylot size influences cortisol and stress responses in horses during group turnout. Presented at the 2017 Equine Science Society Symposium.

Presenter (oral)

In: 2017 J. Equine Vet. Sci. 52:104. Abstract # 146.

24. K. M. DeLano, B. J. McIntosh, J. K. Suagee-Bedore, K. Kaufman, S. Ghajar, A. Wagner-Wells, I. D. Girard. Feeding DigestaWell® Buffer to overconditioned horses mitigates the effects of rapidly introduced nonstructural carbohydrates. 2017 Equine Science Society Symposium, Minneapolis, MN, May 30-June 2.

In: 2017 J. Equine Vet. Sci. 52: 80. Abstract # 92.

23. K. Bennett-Wimbush, **J. Suagee-Bedore**, and M. Amstutz. Stress Responses in horses tied with overchecks. 2016 Joint Annual ADSA-ASAS Meeting, Salt Lake City, UT, July 19-23.
In: 2016 J. Anim. Sci. 94 (E-Suppl. 5): 383. Abstract # 0796.

22. A. L. Wagner, R. K. Splan **J. Suagee-Bedore**, and I.D. Girard. Dietary supplementation of DigestaWell NRG to unconditioned Warmblood mares may reduce lactate rise following exercise. 2016 Joint Annual ADSA-ASAS Meeting, Salt Lake City, UT, July 19-23.
In: 2016 J. Anim. Sci. 94 (E-Suppl. 5): 389. Abstract # 0810.

21. **J. K. Suagee-Bedore**, K. Bennett-Wimbush, D. R. Linden, R. K. Splan. Feeding a small amount of hay prior to concentrate neutralizes the effects of high starch diets on inflammation in horses. 2016 Joint Annual ADSA-ASAS Meeting, Salt Lake City, UT, July 19-23.
Presenter (poster)
In: 2016 J. Anim. Sci. 94 (E-Suppl. 5): 387. Abstract # 0806.

20. **J. K. Suagee-Bedore**, A. L. Wagner, and I. D. Girard. Feeding DigestaWell Buffer to horses neutralizes the effects of high starch diets on blood pH and inflammation. 2016 Joint Annual ADSA-ASAS Meeting, Salt Lake City, UT, July 19-23.
Presenter (poster)
In: 2016 J. Anim. Sci. 94 (E-Suppl. 5): 388. Abstract # 0807
Full-length manuscript: 2018 J. Equine Vet. Sci. 61: 36-45.

19. Sobelman, C., **Suagee-Bedore, J.**, Caldari, C. Dog ownership increases the richness of the cutaneous microbiome. 2015 ADSA-ASAS Joint Annual Meeting, Orlando, FL, July 12-16.
In: 2015 J. Anim. Sci. 93 (Suppl. S3): 653. Abstract # W96.

18. **Suagee, J. K.**, and K. Bennett-Wimbush. Use of a semester long assignment to influence student learning of equine body condition scoring. 2015 Equine Science Society Symposium, St. Pete's Beach, FL, May 26-29.
Presenter (poster)
In: 2015 J. Equine Vet. Sci. 35:457.

17. **Suagee, J. K.**, Splan, R. K., Swyers, K. L., Geor, R. J., and Corl, B. A. Effects of high sugar and starch diets on postprandial inflammation in horses. 2014 ADSA-ASAS Joint Annual Meeting, Kansas City, MO, July 20-24.
Presenter (oral)
In: 2014 J. Anim. Sci. 92 (E-Suppl. 2): 193. Abstract # 0385.

- Full-length manuscript: 2015 J. Equine Vet. Sci. 35: 191-197.*
16. Amstutz, M., Bennett-Wimbush, K., Suagee, J. K., Linden, D. Factors affecting animal attitudes: Interactions of culture, demographics, and education. 2014 NACTA Meeting, Bozeman, MT, June 25-29.
In: 2014 NACTA Conference Proceedings.
 15. Bennett-Wimbush, K., and J. K. Suagee. Horse racing legislation positively impacts Ohio State ATI's Equine Program. 2013 Equine Science Society Symposium, Ruidoso, NM, May 28-31.
In. 2013 J. Equine Vet. Sci. 33:380.
 14. Suagee, J. K., B. A. Corl, M. V. Crisman, R. S. Pleasant, R. J. Geor, and C. D. Thatcher. Relationships between inflammatory cytokines, body condition, and plasma insulin in light breed horses. 2011 Equine Science Society Symposium, Murfreesborough, TN, May 31-June 3.
Presenter (poster)
In: 2011 J. Equine Vet. Sci. 31(5-6): 251.
Full-length manuscript: 2013 J. Vet. Intern. Med. 27(1): 157-163.
 13. Stamey, J. A., J. K. Suagee, and B. A. Corl. Mammary uptake of fatty acids varying in chain length supplied by intravenous triglyceride infusion. 2010 ADSA-ASAS Joint Annual Meeting, New Orleans, LA, July 10 – 14, 2011.
In: 2010 J. Dairy Sci. 94 (E Suppl 1): Abstract # M194.
Full-length manuscript: 2013 Lipids 48:469-479.
 12. Wearn, J. G., M. V. Crisman, J. L. Davis, R. J. Geor, D. R. Hodgson, J. K. Suagee, M. Ashraf-Khorassani, and L. J. McCutcheon. Pharmacokinetics of pioglitazone in horses after multiple dose oral administration. 2010 ACVIM Forum, Anaheim, CA, June 9-12.
In: 2010 J. Vet. Intern. Med. 24(3): Abstract # 394.
Full-length manuscript: 2011 J. Vet Pharmacol. Therap. 34(3): 356-364.
 11. Wearn, J. G., J. K. Suagee, M. V. Crisman, M. W. Hulver, B. A. Corl, D. R. Hodgson, S. Werre, R. J. Geor, and L. J. McCutcheon. Effects of the insulin sensitizing drug, pioglitazone on indices of insulin homeostasis in horses following endotoxin administration. 2010 ACVIM Forum, Anaheim, CA, June 9-12.
In: 2010 J. Vet. Intern. Med. 24(3): Abstract # 125.
 10. Suagee, J. K., R. J. Geor, L. J. McCutcheon, J. G. Wearn, M. V. Crisman, M. W. Hulver, and B. A. Corl. Lipopolysaccharide-induced insulin resistance is

associated with decreased adipose tissue GLUT4 mRNA expression in horses. 2009 Equine Science Society Symposium, Keystone, CO, May 29-31.

Presenter (oral)

In: 2009 J. Equine Vet. Sci. 29(5-6): 407-409.

Full-length manuscript: 2011 Domestic Anim. Endocrinol. 40(3): 36-45.

9. **Suagee, J. K.**, B. A. Corl, M. V. Crisman, J. G. Wearn, L. J. McCutcheon, and R. J. Geor. Fatty acid synthesis in equine adipose and liver tissue explants. 2009 ADSA-CSAS-ASAS Joint Annual Meeting, Montreal, Quebec, Canada, July 12 – 16.

Presenter (oral)

In: 2009 J. Anim. Sci. 87(E Suppl 2): Abstract # 770.

Full-length manuscript: 2010 Comp. Biochem. Physiol. B. 155(3): 322-326.

8. **Suagee, J. K.**, R. J. Geor, L. J. McCutcheon, J. G. Wearn, M. V. Crisman, B. A. Corl, and M. W. Hulver. Effects of the insulin sensitizing drug, pioglitazone, on genes regulating glucose and fat metabolism in horses. 2009 ADSA-CSAS-ASAS Joint Annual Meeting, Montreal, Quebec, Canada, July 12 – 16.

Presenter (oral)

In: 2009 J. Anim. Sci. 87(E Suppl 2): Abstract # 771.

Full-length manuscript: 2011 J. Vet. Intern. Med. 25(2) 356-364.

7. **Suagee, J. K.**, R. J. Geor, L. J. McCutcheon, B. A. Corl, and M. W. Hulver. Acute hyperinsulinemia modulates expression of genes involved in glucose and fat metabolism in subcutaneous adipose tissue of horses. 2009 ACVIM Forum and Canadian Veterinary Medical Association Convention, Montreal, Quebec, Canada, June 3-6.

Presenter (poster)

In: 2009 J. Vet. Intern. Med. 23(3): Abstract # 342.

Full-length manuscript: 2011 Domestic Anim. Endocrinol. 40(3): 173-181.

6. **Suagee, J. K.**, A. O. Burk, R. W. Quinn, T. G. Hartsock, and L. W. Douglass. Effects of diet, weight gain, and exercise on serum TNF- α concentration in Thoroughbred geldings. 2009 Mid-Atlantic Nutrition Conference, Timonium, MD, March 25-26.

Presenter (poster)

In: 2009 Proceedings of the 7th Mid-Atlantic Nutrition Conference.

Full-length manuscript: 2011 J. Anim. Physiol. Anim. Nutr. 95:161-170.

5. **Suagee J. K.**, A. O. Burk, R. W. Quinn, E. D. Petersen, T. G. Hartsock, and L. W. Douglass. Effects of diet and fat accretion on body condition scoring in

Thoroughbred geldings. 2007 Equine Science Society Symposium, Hunt Valley, MD, June 5-9.

Presenter (oral)

In: 2007 Proceedings of the Equine Science Society Symposium.

Full-length manuscript: 2008 J. Equine Vet. Sci. 28(3): 156-166.

4. **Suagee, J.K.**, L. H. Garthoff, P. L. Wiesenfeld, T. J. Sobotka, and C. N. Barton. A simple and rapid clinical observational battery (COB) for predicting mortality in a small rodent model with potential application to counter-terrorism. 2006 Annual FDA Science Forum, Washington, D.C.

Presenter (poster)

In: A Century of FDA Science: Pioneering the Future of Public Health: Abstract # B-PO-102.

3. **Robl, M.G.**, P.L. Weisenfeld, L.H. Garthoff, T.J. Sobotka, **J.K. Suagee**. Histopathological effects of acute toxicity of colchicine (COL) and lipopolysaccharide (LPS) in young adult rats. 2006 Annual FDA Science Forum Washington D.C.

In: A Century of FDA Science: Pioneering the Future of Public Health: Abstract # B-72.

2. **Robl, M.G.**, P.L. Weisenfeld, L.H. Garthoff, T.J. Sobotka, **J.K. Suagee**. Application of OECD guideline 425 (up and down procedure) to establish dose range for toxicity study. 2006 Annual FDA Science Forum Washington D.C.

In: A Century of FDA Science: Pioneering the Future of Public Health: Abstract # B-73.

1. **P.L. Weisenfeld**, L.H. Garthoff, T.J. Sobotka, **J.K. Suagee**. Toxicity of oral colchicine (COL) in young adult male and female rats: interactions of vehicle matrix and pre-exposure to lipopolysaccharide (LPS). 2006 Annual FDA Science Forum Washington D.C.

In: A Century of FDA Science: Pioneering the Future of Public Health: Abstract # B-74.

Full-length manuscript: 2007 J. Appl. Toxicol. 27(5):421-433.

Invited Scientific Presentations

7. February, 2017. Hay based diets for horses. 2017 Virginia State Feed Association Conference, Roanoke, VA.
6. July, 2012. Carbohydrate digestion: A comparison of strategies. School of Agriculture, University of Wisconsin-Platteville.

**Seminar given as part of the interview process for the Animal Nutrition Assistant Professor position*

5. June, 2012. Healthy companion horses: Too fat, too thin, or just right? Agricultural Technical Institute, The Ohio State University, Wooster, OH.

**Seminar given as part of the interview process for the Equine Technologies Assistant Professor position*

4. December, 2011. Nutrition and metabolism: From cellular mechanisms to animal performance. Department of Animal and Avian Sciences, University of Maryland, College Park, MD.

**Seminar given as part of the interview process for the Animal Science Assistant Professor position*

3. March, 2011. Regulation of metabolism and inflammation by insulin in horses. Department of Animal Science, University of Connecticut, Storrs, CT.

**Seminar given as part of the interview process for the Equine Science Assistant Professor position*

2. July, 2010. Importance of volatile fatty acid metabolism for horses. Joint ADSA-PSA-AMPA-CSAS-ASAS Annual Meeting, Denver, CO.

**Seminar given as part of the "Nonruminant Nutrition: Rethinking Equine Nutrition" Symposium*

1. June, 2010. The Glycemic/Insulinemic Response of Horses to 3 Diets. ACVIM Forum, Anaheim, CA.

**Seminar given as part of the AAVN/ACVN (Equine) Comprehensive Review session*

Invited Presentations to the General Public

7. June, 2016. Introduction to Digestion and Nutrition of Horses. A presentation for the Liberated Horseman's group. 90 minute presentation. Attendance: 15
6. June, 2016. Managing the Hard Keeper. A presentation for the Liberated Horseman's group. 90 minute presentation. Attendance: 15
5. January, 2013. Equine Nutrition: Building a Healthy Horse. Orrville Veterinary Clinic Horse Owner's Meeting. Orrville, Ohio. 45 minute presentation. Attendance: 50
4. April, 2013. Land and Pasture Management for Horses. Equine Affaire. Columbus, Ohio. 45 minute presentation. Attendance: 50
3. January, 2007. Is there junk in your horse's trunk? Horse World Expo, Baltimore, MD.
2. March, 2006. Equine Obesity and Related Health Disorders. Graduate Women in Science Meeting, College Park, MD.

1. November 2005. Equine Laminitis and Founder. University of Maryland Equestrian Club, College Park, MD.

Other Professional Activities

4. April, 2018. Interview with The Horse (www.thehorse.com) Article written by Nancy Loving, DVM. Entitled "Body-Wide Inflammation". Article forth-coming.
3. May, 2012. Question Facilitator for "Maximizing Your Horse's Nutrition for Optimal Health and Performance" a webinar given by Amy Burk, PhD as part of the University of Maryland's "Responsible Horse Ownership" week webinar series.
2. July, 2011. Interview with The Horse (www.thehorse.com). Article written by Stacey Oke, DVM, MS, entitled "Researchers Examine Link Between Obesity, Laminitis, and EMS." Article #18591.
1. March, 2009. Two page article written for the Nutrition Department at the Smithsonian Institution National Zoo entitled "Obesity, Insulin Resistance, and Risk for Laminitis in Equids."

**Article requested by senior nutritionist Michael Maslanka, MS, to be used to educate the przewalski horse keepers about proper body condition.*

GRANTS AND FUNDING

Funding as an Assistant Professor (\$25,926)

Extramurally Funded Research (\$7,248)

2. **Title:** Effect of High Glycemic Diets on Systemic Inflammation Associated with Insulin Resistance. PI: Rebecca Splan. Co-PI: **Jessica Suagee**.
Funded by the Virginia Horse Industry Board
Amount Requested: \$7,248 (\$7,248 direct costs)
Duration: July, 2013 – July, 2014
Status: Project completed, manuscript published.

Internally Funded Research (\$10,598)

7. **Title:** Ability of an herbal supplement to improve metabolic responses of horses to a 4 week conditioning period.
Funded by "Enhancing Undergraduate Research Experiences and Creative Activities" undergraduate research program
Amount Funded: \$10,000
Duration: June 2018- August 2018
Status: Current
6. **Title:** Investigating the feeding practices and knowledge of horse owners and managers in Walker County, Texas

Funded by the Department of Agricultural Sciences Ag Development competitive grant competition

Amount Funded: \$1120

Duration: January 2018-December 2018

Status: Current

5. **Title:** Do changes in body condition alter insulinemic responses to a hay meal in horses fed ensiled hay for 60 days? PI: Daniel Linden. Co-PI: Karen Wimbush, Jessica Suagee-Bedore

Funded by Research, Creative, and Other Scholarly Activity internal grant program.

Amount Funded: \$1830

Duration: July 2017 – Current.

Status: Completed.

4. **Title:** Efficacy of a commercial hoof supplement to promote an increase in hoof growth and hardness in horses. PI: Jessica Suagee-Bedore. Co-PI: Karen Wimbush.

Funded by Research, Creative, and Other Scholarly Activity internal grant program.

Amount Funded: \$1972

Duration: July 2016 – July, 2017.

Status: Project completed.

3. **Title:** Nutritional Evaluation of Sprouted Barley. PI: Jessica Suagee. Co-PI: Karen Wimbush, Daniel Linden.

Funded by Research, Creative, and Other Scholarly Activity internal grant program.

Amount Funded: \$2243

Duration: July 2015 – July, 2016.

Status: Project completed.

2. **Title:** Effects of Over Check Use on Horses Used for Transportation in Northeast Ohio. PI: Karen Wimbush. Co-PI: **Jessica Suagee**, Mike Amstutz
- Funded by Research, Creative, and Other Scholarly Activity internal grant program.

Amount Funded: \$1970

Duration: July 2014 – July, 2015.

Status: Project completed, manuscript submitted for publication

1. **Title:** Effect of feeding strategy and high starch and sugar diets on post-prandial interleukin-1 β concentrations in horses. PI: **Jessica Suagee**. Co-PI: Karen Wimbush, Daniel Linden

Funded by Research, Creative, and Other Scholarly Activity internal grant program.

Amount Funded: \$993

Additional funding: \$1463

Duration: July 2014 – July, 2015.

Status: Project completed. Two manuscripts published (# 17 and 18)

Gifts and Contracts (\$8,080)

4. **\$1000-** general research funding

- Probiotech International
January 2016
- 3. **\$1000-** general research funding
Probiotech International
January 2016
- 2. **\$5700-** research product testing
Probiotech International
December 2015
- 1. **\$380-** purchase of round bale hay net
CinchChix
February 2013

Grants Submitted (But Not Funded)

- 5. **Title:** Connecting Farm Experience with Entrepreneurship in Post-Secondary Sustainable Agriculture Education of Farm. PI: Nels Hanson, Co-PI: Dan Linden, **Jessica Suagee**, Casey Hoy, Ruby Beil (Lorain County Community College), Brett Johnson (Lorain County Community College)
Submitted to the USDA NIFA Secondary Education, Two Year Postsecondary Education, and Agriculture Program
Amount requested: \$142,874 (\$113,392 direct costs)
Grant submitted: January, 2013
- 4. **Title:** Early Development of Lipid Insulin Resistance as a Marker of Peripheral Glucose Intolerance in Horses. PI: **Jessica Suagee**.
Funded by Cooperative Research Farms
Amount Requested: \$19,933 (\$16,611 direct costs)
Duration: August, 2013 – August, 2015
Status: Approved for funding, unfunded.
- 3. **Title:** Absorption Rates of Sodium Acetate in Lean vs. Overweight Adult Mares: A Mechanism of Gut Microbe-Associated Equine Obesity. PI: Megan Shepherd (Virginia Tech), Co-PI: **Jessica Suagee**
Submitted to the WALTHAM-Buckeye Equine Grant program
Amount requested: \$11,966 (\$9,972 direct costs)
Grant submitted: February, 2013
- 2. **Title:** iHorse: A Pilot Program to Promote Technology-Based Applications in Agricultural Education. PI: **Jessica Suagee**. Co-PI: Steve Hebrock, Subbu Kumarappan.
Submitted to the Digital First Impact Grant program of The Ohio State University Office of Distance Education & eLearning.
Amount Requested: \$12,500 (\$12,500 direct costs)
Grant submitted: April, 2013
- 1. **Title:** Transfer of Essential Fatty Acids to Mare's Milk Following Oral Supplementation. PI: **Jessica Suagee**. Co-PI: Karen Wimbush, Thaddeus Ezeji
Submitted to the WALTHAM-Buckeye Equine Grant program
Amount requested: \$18,659 (\$15,549 direct costs)

Granted submitted: February, 2013

Funding as a Doctoral Student: \$13,940

Extramurally Funded Research (total funded awards: \$6,640)

1. **Title:** Examining the inflammatory state of obese horses in search of a predictive test for laminitis susceptibility.
Sponsor: Virginia Horse Industry board
Amount: \$6,640
Grant Period: August 2009- August 2011

Internally Funded Research (total funded awards: \$7,300)

2. **Title:** Evaluation of insulin sensitizing agents for management of equine metabolic syndrome.
Sponsor: Graduate Research Development Program (Virginia Tech)
Amount: \$600
Grant duration: January-April 2009
1. **Title:** John Lee Pratt Fellowship in Animal Nutrition research funding.
Sponsor: College of Agriculture and Life Sciences, Virginia Tech Foundation
Amount: \$6,700
Grant duration: August 2007-August 2011

Grants Submitted, Unfunded (\$666,885)

3. **Title:** Molecular regulation of tissue site and substrate use for de novo fatty acid synthesis.
Submitted to the National Science Foundation, Division of Integrative and Organismal Systems
Amount requested: \$553,000
Grant submitted: August, 2012
2. **Title:** Examining the inflammatory capacity of neck subcutaneous adipose tissue from obese horses to define the relationship between “cresty neck” and laminitis.
Submitted to the Virginia Horse Industry board
Amount requested: \$14,609
Grant submitted: April, 2012
1. **Title:** Plasma insulin concentration drives adipose tissue inflammation in obese horses.
Submitted to the Morris Animal Foundation Fellowship Training program
Amount requested: \$99,276
Grant submitted: July 2010
- *Approved for funding if funding became available*

RESEARCH SKILLS AND TRAINING

Laboratory skills: adipocyte, hepatocyte, and mammary epithelial cell culture; differentiation of primary adipocytes in culture; acute adipose tissue culture; use of small interfering RNA in cell culture; transfection protocols; luciferase assays; RNA and protein isolation from cells and tissues; real time PCR and primer design; western immunoblotting techniques and antibody optimization; electrophoretic mobility shift assays; optimization and use of enzyme linked immunosorbent assays; thin layer chromatography; use of ¹⁴C labels to track fatty acid metabolism; post-mortem tissue collection from rats, chicks, steers, pigs, dairy cows, sheep, and horses; microsome, mitochondria, and cytosol isolation from pancreas, liver, adipose tissue, muscle, and small intestine mucosa.

Other animal research skills: jugular venous catheterizations and intravenous infusions into dairy cows and horses; jugular vein blood collection from horses; postmortem blood collection from rats; digestibility and total collection studies in horses; nutrition and feeding studies in horses; assistance with muscle and adipose tissue biopsies from horses; assistance with mammary gland biopsies from dairy cows; rodent toxicology research in a Bio-Safety Level II research facility.

Other research skills: analysis of data using correlation, analysis of variance, and analysis of covariance; preparation of IACUC protocols; manuscript preparation; editing and reviewing manuscripts.

Specific training:

- a. CITI Collaborative Institutional Training Initiative, Social and Behavioral Research Stage 1 training (IRB), January, 2013
- b. The Ohio State University Animal Care and Use web-training, January, 2013
- c. Biomedical Responsible Conduct of Research (RCR), National Science Foundation, January 2012.
- d. Writing Successful Grants, Virginia Tech Faculty Development Institute; March 2009.
- e. Building the NIH/USDA Grant Proposal, Virginia Tech Faculty Development Institute; March 2009.
- f. Working with the IACUC (AALAS learning library), April 2008.
- g. Virginia Tech Radiation Safety Course, September 2007.