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EDUCATION

Postdoctoral Research Associate

TEXAS A&M AGRILIFE RESEARCH

April, 2012 to February 2013

ADVISOR: DR. JAMES MACDONALD
CO-ADVISOR: DR. TED MCCOLLUM III

Doctor of Philosophy, Ph.D.

UNIVERSITY OF NEBRASKA - LINCOLN
MAJOR: ANIMAL SCIENCE, RUMINANT NUTRITION

Graduation: March, 2012

ADVISOR: DR. GALEN E. ERICKSON
CO-ADVISOR: DR. TERRY KLOPFENSTEIN

Master of Agronomy, M.S.

UNIVERSITY OF SAO PAULO, PIRACICABA - BRAZIL
MAJOR: ANIMAL SCIENCE AND FORAGES, RUMINANT NUTRITION

Graduation: April, 2008

ADVISOR: DR. LUIZ G. NUSSIO
CO-ADVISOR: DR. FLAVIO P. SANTOS

Doctor of Veterinary Medicine, D.V.M.

UNIDERP, CAMPO GRANDE - BRAZIL

Graduation: February, 2006

EXPERIENCE

Assistant Professor

TEXAS TECH UNIVERSITY

March, 2013 - current

DEPARTMENT OF ANIMAL & FOOD SCIENCES

- Tenure-track research/teaching appointment (60/40) with focus on beef cattle nutrition and ruminant metabolism.

GRADUATE AND UNDERGRADUATE COURSES:

- ANSC 4405, CATTLE STOCKER AND FEEDLOT MANAGEMENT, FALL/**16/17/18**, UNDERGRAD.
- ANSC 3307, FEEDS AND FEEDING, FALL/**13/14/15/16/17**, UNDERGRAD.
- ANSC 5001, RESEARCH METHODS IN RUMINANT NUTRITION, SUMMER I&II/**15/18**, GRADUATE.
- ANSC 5303, ADVANCED FEEDLOT MANAGEMENT, FALL/**18**, GRADUATE
- ANSC 5100, SEMINAR IN AGRICULTURE /NUTRITION, SPRING/**15/16/17/18**, GRADUATE.
- ANSC 5308, MINERALS AND VITAMINS IN ANIMAL NUTRITION, SUMMER/**14/16**, GRADUATE.
- ANSC 3307, FEEDS AND FEEDING, SPRING/**14** (MINERALS & VITAMINS; BYPRODUCTS; ADDITIVES)

Manager for the Ruminant Nutrition Laboratory

TEXAS TECH UNIVERSITY, LUBBOCK - TX. FOOD TECHNOLOGY BUILDING (201 AND 203)

January, 2014 - current

Institutional Animal Care and Use Committee (IACUC)

PRIMARY REPRESENTATIVE OF THE DEPARTMENT OF ANIMAL AND FOOD SCIENCES

[HTTP://WWW.DEPTS.TTU.EDU/IACUC/IACUC.PHP](http://www.depts.ttu.edu/iacuc/iacuc.php)

August, 2016 - current

Graduate Research Assistant

UNIVERSITY OF NEBRASKA-LINCOLN

November, 2005 to March, 2012

DR. GALEN E. ERICKSON, RUMINANT NUTRITION

- Conducting research dealing with adaptation strategies using corn ethanol co-products to start-up cattle to high concentrate finisher diets;
- Beef cattle growth performance, metabolism studies and laboratory procedures evaluating sulfur levels, sources as well as its availability for ruminal reduction to hydrogen sulfide.

UNIVERSITY OF SAO PAULO

DR. LUIZ G. NUSSIO, QUALITY FORAGE AND CONSERVATION

- Conducting research dealing with development and evaluation of wet co-products from citrus industry. Laboratorial evaluation of silages and co-products. Evaluation of chemical and microbial additives for crops and wet co-product silages. Use of laboratorial experimental silos technique to evaluate effects of additives on quality forage conservation.

Graduate Teaching Assistant

UNIVERSITY OF NEBRASKA-LINCOLN (PH.D. PROGRAM)

ANIMAL NUTRITION AND FEEDING, ASCI 320
FALL 2010

DR. PHILIP S. MILLER

INTRODUCTION TO ANIMAL SCIENCE, ASCI/VBMS 101
FALL 2011

DR. DENNIS BRINK

UNIVERSITY OF SAO PAULO, BRAZIL (MASTER PROGRAM)
PROFESSOR IN COURSES OF SHORT DURATION (4H EACH)23RD FEEDLOT TRAINING COURSE: CLASS: PRODUCTION AND SCIENTIFIC BASE OF SELECTION ON FORAGE SOURCES FOR FEEDLOT SYSTEMS, 20083RD SUGAR CANE SILAGE COURSE: TECHNIQUE AND ECONOMIC ANALYSIS: CLASS: PRODUCTION COST OF SUGAR CANE SILAGE AND ECONOMIC ANALYSIS OF SILAGE ADDITIVE USE, 20087TH IRRIGATED PASTURES COURSE: CLASS: HYDRIC STRESS AND QUALITY FORAGE RELATIONSHIP, 20087TH COURSE ON BASIC CONCEPTS OF TECHNIC/ECONOMIC PLANNING OF DAIRY CATTLE PRODUCTION SYSTEMS: CLASS: PRODUCTION, PLANNING AND CONSERVATION OF FORAGES, 200812TH COURSE ON BASIC CONCEPTS OF TECHNIC/ECONOMIC PLANNING OF BEEF CATTLE PRODUCTION SYSTEMS: CLASS: PRODUCTION, PLANNING AND CONSERVATION OF FORAGES, 2008**Undergraduate Teaching Assistant,**

UNIDERP – CAMPO GRANDE, BRAZIL

DR. GETTI OTANO DA ROSA

PHYSIOLOGY OF DOMESTIC ANIMALS I, 2003
PHYSIOLOGY OF DOMESTIC ANIMALS II, 2004**Undergraduate Research Intern,**

UNIVERSITY OF SAO PAULO – PIRACICABA, BRAZIL

July, 2005 to December, 2005

DR. LUIZ GUSTAVO NUSSIO

- Conducted research dealing with use of chemical additives (Sodium Benzoate) to control aerobic stability of sugar cane silages after silo opening.

Scholarship/Award/Honors:**11th World Conference on Animal Production**

2013 – 11 WCAP Young Scientist Financial Award for North America - Beijing, China

American Society of Animal Science

2011 – PhD oral competition, 2nd place, Forty-fourth MIDWEST Meeting American Society of Animal Science - Des Moines, IA

Department of Animal Science Awards, University of Nebraska

Arthaud travel scholarship-July, 2009

David H. & Annie E. Larrick Memorial Travel Fund – June, 2010

State of Mato Grosso do Sul – Brazil

2006 – Prize: Dr. Joaquim Cavalcanti Freire, from the Veterinary Council of the State of Mato Grosso do Sul/Brazil – Outstanding Veterinary Medicine student

Professional Memberships since:

Texas and Southwestern Cattle Raisers, since 2018

American Association for the Advancement of Science (AAAS), from 2014 to 2017

Texas Cattle Feeders Association (TCFA), industry secondary associate, since 2014

Gamma Sigma Delta, The Honor Society of Agriculture, since 2013

American Registry of Professional Animal Scientists (ARPAS), since 2011

American Society of Animal Science (ASAS), since 2009

Veterinary Council of the State of Mato Grosso do Sul, Brazil (CRMV/MS), since 2006

Veterinary Association of the Sate of Mato Grosso do Sul, Brazil (AMV/MS), since 2006

Reviewer for Scientific Journals:

Livestock Science, 2017 to current.

SM Journal of Animal Science, 2017 to current.

Scientia Agricola, 2015 to current.

Journal of Veterinary Science and Medicine, 2014 to current.

Journal of Animal Science, 2013 to current.

Animal: International Journal of Animal Bioscience, 2013 to current.

Acta Agriculturae Scandinavica, Section A, Animal Sciences, 2013 to current.

Language skills:

English, fluent

Portuguese, fluent

Spanish, fluent

Invited speaker:

Meat School in Spanish, TTU, Lubbock – TX, 2018. Workshop attendance: 52. Feedlot Cattle: Principles and Opportunities.

U.S.MEAT-EXPORT FEDERATION - Caribbean, Mexico, C/S America RETAIL teams, 2018. TTU, Feb 28 – Mar 1. Segments of the Industry: From the pure bred/seed stock producer to cow/calf to stocker/backgrounder to feedlot—how is value added at each step!

XXVII BRAZILIAN ANIMAL SCIENCE CONGRESS - ZOOTEC 2017, Mendes Convention Center in Santos-SP, on May 23, 2017. Feedlot Cattle in the United States: Why, When, and with What?

Meat School in Spanish, TTU, Lubbock – TX, 2017. Workshop attendance: 67. Talk 1 – Ruminant Nutrition 101; Talk 2 - Forage based systems for livestock production; Talk 2 - Feedlot Cattle

VII CONGRESO NACIONAL GANADERO”, Managua – Nicaragua, 2016: Alimentación de novillos en fase de crecimiento a base de pastoreo.

Meat School in Spanish, TTU, Lubbock – TX, 2016. Workshop attendance: 55. Talk 1 - Forage based systems for livestock production; Talk 2 - Feedlot Cattle

EXPICA: “Exposicion pecuaria del istmo centroamericano, AGAFAM”, Tegucigalpa – Honduras, 2016: Livestock: Feedstuffs and feeding opportunities.

VI Confinatto Seminar, Ribeirao Preto, SP – Brazil, 2015: North American and Brazilian expertise in feedlot

Meat School en español, Lubbock – TX, 2015. Workshop attendance: 27: Feedlot Cattle: Why, when, and with what?

Texas Beef Council, USMEF Central and South America Tour, Lubbock – TX, 2014: Systems & Feedstuffs for Feedlot Cattle

CAEP Brazil, USA Feedlot Tour 2014, Lubbock – TX, 2014: The current state of the art on feedlot nutrition in the USA

11th World Conference on Animal Production, Beijing – China, 2013: Nitrogen from post-extraction algal residue in steam-flaked corn beef cattle finishing diets

III International Symposium on Forage Quality and Conservation. Campinas, SP – Brazil, 2013: Challenges in the utilization of high moisture co-products in diets for ruminants

Texas A&M, College Station - TX, 2012: Using ruminant nutrition concepts to develop opportunities of original research

Huskers Beef Cattle Conference, Lincoln – NE, 2010: Sulfur and distillers grains: an update

Judge committee member:

Annual Graduate Student Research Poster Competition, TTU	2017, 2018
Doctoral Dissertation Completion Fellowship Nominations, TTU	2017
Graduate School Scholarship Awards, MS and PhD, TTU	2014, 2016, 2017
Bob Albin Graduate Student Research Paper Competition, TTU	2013, 2014, 2015, 2017, 2018
Undergraduate Research Conference, poster/oral TTU – CALUE	2014, 2015, and 2016
Plains Nutrition Council Conference Poster Competition, San Antonio-TX.	2014

Graduate students:

M.S. Carly Hoffmann, Animal and Food Sciences, TTU. Thesis: “Strategies to better utilize sorghum crop resources to improve storage and digestibility of corn starch for cattle in the Southern High Plains”. Expected Graduation: Fall/2019.

- Ph.D.** Joel Dustin Sugg, Animal and Food Sciences, TTU. Dissertation: "Evaluation of *Eragrostis tef* (Zucc.) as a forage option for grazing beef cattle in the Southern High Plains". Expected Graduation: Summer/2018.
- M.S.** Lucas Barbosa Kondratovich, Animal and Food Sciences, TTU. Thesis: "Effects of feed-grade fibrolytic enzymes on ruminal fermentation characteristics of beef steers fed growing diets". Expected Graduation: Fall/2018.
- M.S.** Lauren Ovinge, Animal and Food Sciences, TTU. Thesis: "Effects of ABVista feed-grade yeast on beef cattle growth performance, carcass characteristics and nutrient digestibility of steam-flaked corn-based finishing diets". Graduation: Summer/2016.
- M.S.** Pedro Ricardo Balavenuto Campanili, Animal and Food Sciences, TTU. Thesis: "Forage sorghum silage and cattle backgrounding effects on growth performance, carcass characteristics, nutrient digestibility and ruminal parameters of beef cattle finishing diets". Graduation: Summer/2016.
- M.S.** Abdullah Alrumaih, Animal and Food Sciences, TTU. Thesis: "Improving Sorghum-Sudan silage grown under limited water supply". Expected Graduation: Spring/2017.
- M.S.** Melissa Catherine Tabke, Animal and Food Sciences, TTU. Thesis: "Effects of tannic acid on growth performance, carcass characteristics, nutrient digestibility and fecal N volatilization of finishing beef cattle". Graduation: Fall/2014.

Graduate committees:

- Tosha Ophein, Ph.D. Animal and Food Sciences, TTU. Expected Graduation: 2019
- Stephanie Soto, M.S. Animal and Food Sciences, TTU. Expected Graduation: 2019
- Kimberly Pritchett, Ph.D. Animal and Food Sciences, TTU. Expected Graduation: 2019
- Whitney Stuart, Ph.D. Animal and food sciences, TTU. Graduation: 2018
- Zachary Smith, Ph.D. Animal and Food Sciences, TTU. Graduation: 2018
- Tyler Vogel, M.S. Animal and Food Sciences, TTU. Graduation: 2017
- Amy Petry, M.S. Animal and Food Sciences, TTU. Graduation: 2017
- Clay Burson, Ph.D. Animal and Food Sciences, TTU. Graduation: 2016
- Alex Thompson, Ph.D., Animal and Food Sciences, TTU. Graduation: 2017
- Lisa Baxter, Ph.D., Plant and Soil Sciences, TTU. Expected graduation: 2017
- Joel Dustin Sugg, Ph.D., Animal and Food Sciences, TTU. Expected graduation: 2019
- Tosha Ophein, M.S. Animal and Food Sciences, TTU. Graduation: 2016
- Lauren Ovinge, M.S., Animal and Food Sciences, TTU. Graduation: 2016
- Pedro Ricardo Balavenuto Campanili, M.S., Animal and Food Sciences, TTU. Graduation: 2016
- Abdullah Alrumaih, M.S., Animal and Food Sciences, TTU. Expected graduation: 2017
- Barbara Juliana Lemos, Ph.D. Animal Science, Federal University of Goias. Ex. graduation: 2016
- Cameron Nightingale, Ph.D. Animal Science, TTU. Graduation: 2016
- Tanner Schmidt, M.S. Animal Science, TTU. Graduation: 2014
- Melissa Catherine Tabke, M.S., Animal and Food Sciences, TTU. Graduation: 2014

Elizabeth Dombay, Ph.D. Animal and Food Sciences, TTU. Graduation: 2013.

International/National Research Scholars and Residents:

Luis Felipe Soares de Carvalho, Major: Agronomy, UNESP – Jaboticabal, Brazil. August to March of 2019.

Iury Augusto de Freitas Cruvinel, Major: Animal Science, UFL – Lavras, Brazil. February to August of 2018.

Carly Hoffman, B.S. Animal Science, Texas A&M. September to December of 2017.

Beatriz Reis, Major: Animal Science, UNESP – Dracena, Brazil. January to December of 2017.

Mikenzie Hanlon, Texas Tech University. B. S. in Animal Science. August to December of 2016.

Alan Barboza Melo, M.S. Major: Animal Science, UNESP – Dracena, Brazil. August to November of 2016.

Roberta Ferreira Carvalho, Ph.D. Major: Animal Science, Federal University of Minas Gerais. Research Scholar. May to July of 2016.

Amanda Hoffman. Texas Tech University. B. S. in Animal Science. July to December of 2015.

Lucas A. Pellarin. Sao Paulo State University/College of Agriculture “Luiz de Queiroz”. B.S. in Agronomy, Brazil. Major: Animal Science. August, 2nd of 2015 to August 2nd of 2016.

Lauren Ovinge. Alberta, Canada. Major: Animal Science, Canada. August 1st of 2014 to December 31st of 2014.

Barbara Juliana Lemos, Ph.D. Major: Animal Science, Federal University of Goias, Brazil. Ph.D. Research scholar. July, 15 of 2014 to July 15 of 2015.

Pedro Ricardo Ballavenuto Campanili. Sao Paulo State University/College of Agriculture “Luiz de Queiroz”. B.S. in Agronomy, Brazil. Major: Animal Science. August, 15 of 2013 to May 1st of 2014.

Pedro Ricardo Ballavenuto Campanili. Sao Paulo State University/College of Agriculture “Luiz de Queiroz”. B.S. in Agronomy, Brazil. Major: Animal Science. July, 7 of 2014 to December 31st of 2014.

Tyler Davis. Texas Tech University. Major: Animal Science, USA. February, 2014 to July, 2014.

PUBLICATIONS

Refereed Journal Articles

P. R. B. Campanili, **J. O. Sarturi**, S. J. Trojan, M. A. Ballou, L. A. Ovinge, and B. J. M. Lemos. 2018. Growing system effects on silage type selection for the finishing phase of beef steers: feedlot growth performance, carcass characteristics, nutrient digestibility, and feeding behavior. *Journal of Veterinary Science & Medicine*. (submitted Ref No: JVSM-18-0038).

L. A. Ovinge, **J. O. Sarturi**, M. L. Galyean, M. A. Ballou, S. J. Trojan, P. R. B. Campanili, A. U. Alrumaih, and L. A. Pellarin. 2018. Effects of a live yeast in natural program finishing feedlot diets on growth performance, digestibility, carcass characteristics, and feeding behavior. *J. Anim. Sci.* 96:684-693. doi:10.1093/jas/sky011.

J. D. Sugg, P. B. Campanili, **J. O. Sarturi**, M. A. Ballou, and S. J. Trojan. 2017. Case Study: Yield and quality of traditional senescent and stay-green sorghum and in situ ruminal disappearance of respective crop residues. *Prof Anim. Sci.* 33:748–755. doi:10.15232/pas.2017-01611.

Tabke, M.K., **J. O. Sarturi**, M. A. Galyean, S. J. Trojan, C. J. Brooks, B. Johnson, J. Martin, J. Baggerman, and A. Thompson. 2017. Effects of tannic acid on growth performance, carcass characteristics, digestibility, nitrogen volatilization, and meat lipid oxidation of steers fed steam-flaked corn-based finishing diets. *J. Anim. Sci.* 95. doi:10.2527/jas2017.1464.

Campanili, P. R. B., **J. O. Sarturi**, M. A. Ballou, S. J. Trojan, L. Ovinge, A. Alrumaih, L. Pellarin, J. Sugg, A. Hoffman. 2017. Effects of silage type and inclusion level on ruminal characteristics and feeding behavior of steers fed finishing diets. *J. Anim. Sci.* 95. doi:10.2527/jas2017.1510.

Baxter, L. L., C. P. West, **J. O. Sarturi**, C. P. Brown, and P. G. Green. 2017. Stocker beef production on low-water input systems in response to legume inclusion. II. Water footprint. *Crop Sci.* 57:2303-2312. doi: 10.2135/cropsci2017.05.0289.

Opheim, T. L., P. R. B. Campanili, B. J. M. Lemos, L. A. Ovinge, J. O. Baggerman, K. C. McCuiston, J. Dwyer, M. L. Galyean, **J. O. Sarturi**, and S. J. Trojan. 2016. Biofuel feedstock and blended coproducts compared with de-oiled corn distillers grains in feedlot diets: Effects on cattle growth performance, carcass characteristics, nutrient digestibility, and water use assessment of feedstock source. *J. Anim. Sci.* 2016 94: 1: 227-239.

Sarturi, J.O., G. E. Erickson, T. J. Klopfenstein, J. T. Vasconcelos, W. A. Griffin, K. M. Rolfe, J. R. Benton, and V. R. Bremer. 2013. Sulfur content in wet or dry distillers grains at several inclusions on cattle growth performance, ruminal parameters and hydrogen sulfide. *J. Anim. Sci.* 91:4849-4860.

Sarturi, J.O., G. E. Erickson, T. J. Klopfenstein, K. M. Rolfe,* C. D. Buckner,* and M. K. Luebbe. 2013. Impact of source of sulfur on ruminal hydrogen sulfide and logic for the ruminal available sulfur for reduction concept. *J. Anim. Sci.* 91:3352-3359.

Santos, M. C., Nussio, I. G., Mourão, G. B., Schmidt, P., Mari, I. J., Ribeiro, J. L., Queiroz, O. C. M., Zopollatto, M., Sousa, D. P., **J. O. Sarturi**, and Toledo filho, S. G. 2009. Nutritive value of sugarcane silage treated with chemical additives. *Scientia Agrícola.* 66:159-163.

Zopollatto, M., Nussio, I. G., Paziani, S.F., Ribeiro, J. L., **J. O. Sarturi**, and G. B. Mourão. 2009. Biometric relations between maturity stage and productivity of corn cultivars for silage production. *Brazilian J. of Anim. Sci.* 38:2 256-264.

A.L.B. Schogor, L.G. Nussio, G.B. Mourão, G.B. Muraro, **J. O. Sarturi**, and B.C. Matos. 2009. Losses in sugarcane submitted to different harvesting methods. *Brazilian J. of Anim. Sci.* 38:8 1443-1450.

Symposia Proceedings

Sarturi, J.O. 2017. Feedlot Cattle in the United States: Why, When, and with What? In: Proceedings XXVII Brazilian Animal Science Congress - ZOOTEC 2017, Mendes Convention Center in Santos-SP, Brazil.

Sarturi, J.O. 2013. Challenges in the utilization of high moisture co-products in diets for ruminants. In: Proceedings III International Symposium on Forage Quality and Conservation. Campinas, SP – Brazil.

Zopollatto, M. and **Sarturi, J.O.** 2009. Optimization of the animal production system based on the selection of corn hybrids for silage. In: Proceedings International Symposium on Forage Quality and Conservation. Pp. 73-90, Sao Pedro, SP – Brazil.

Muraro, G.B., **Sarturi, J. O.**, Ribeiro, J. L. and Nussio, L. G. 2008. Optimization of diets containing tropical grass silages. 2008. In: Proceeding 6th Symposium of Beef Cattle Production and 2nd International Symposium of Beef Cattle Production. Pp. 183-199, Viçosa, MG – Brazil.

Experiment Station Reports, Nebraska Beef Reports

Sarturi, J.O., G.E. Erickson, T.J. Klopfenstein, K.M. Rolfe, C.D. Buckner and M.K. Luebbe, 2012. Ruminal Degradable Sulfur and Hydrogen Sulfide in Cattle Finishing Diets. *Nebr. Beef Cattle Rep* MP 95: 79-81.

M.G. Dib, **Sarturi, J. O.**, K.M. Rolfe, G. E. Erickson, T.J. Klopfenstein and R. Lindquist, 2012. Feeding Modified Distillers Grains With Solubles and Wet Corn Gluten Feed (Synergy) to Adapt Cattle to Finishing Diets. *Nebr. Beef Cattle Rep.* MP 95: 94-95.

M.G. Dib, **Sarturi, J. O.**, K.M. Rolfe, G. E. Erickson, T.J. Klopfenstein and R. Lindquist, 2011. Effects of Feeding a Combination of Modified Distillers Grains Plus Solubles and Wet Corn Gluten Feed to Adapt Cattle to Finishing Diets. *Nebr. Beef Cattle Rep.* MP 94: 57-59.

Sarturi, J.O., G.E. Erickson, T.J. Klopfenstein, J.T. Vasconcelos, J.R. Benton and W.A. Griffin, 2011. Effects of Sulfur Concentration in Distillers Grains With Solubles in Finishing Cattle Diets. *Nebr. Beef Cattle Rep.*MP 94:62-64.

Sarturi, J.O., G.E. Erickson, T.J. Klopfenstein, J.T. Vasconcelos, M.G. Dib and K.M. Rolfe, 2011. Effects of Adaptation Diets containing Wet Distillers Grains With Solubles or Wet Corn Gluten Feed on Ruminal pH, Intake and Hydrogen Sulfide. *Nebr. Beef Cattle Rep.*MP 94:65-67.

Sarturi, J.O., G.E. Erickson, T.J. Klopfenstein, J.T. Vasconcelos and K.M. Rolfe, 2011. Effects of Sulfur Content of Distillers Grains in Beef Cattle Finishing Diets on Intake, Ruminal pH, and Hydrogen Sulfide. *Nebr. Beef Cattle Rep.*MP 94:68-69.

Sarturi, J.O., D.R. Mark, G.E. Erickson, T.J. Klopfenstein, J.T. Vasconcelos and V. Bremer, 2011. Economic Impact of Sulfur Levels in Distillers Grains Diets Fed to Beef Cattle. *Nebr. Beef Cattle Rep.*MP 94:70-71.

American Society of Animal Science Abstracts

C. A. Hoffmann, **J. O. Sarturi**, B. Q. Reis, M. F. Miller, M. M. Brashears, D. D. Millen, J. T. Milopoulos, and T. L. Opheim. 2018. Ruminal papillae morphology and volatile fatty acid profile of beef feedlot steers fed combinations of feed additives. *J. Anim. Sci.* (accepted: ASAS Vancouver, CA)

Kondratovich, L.B., **J.O. Sarturi**, M. Ballou, A. B. Mello, P.R.B. Campanili, L.A. Pellarin, and M. E. Hanlon. 2018. Effects of exogenous fibrolytic enzymes on beef cattle fed growing diets: Metabolism study. *J. Anim. Sci.* (accepted: ASAS Vancouver, CA)

B.C. Dooley, C.S. McCarthy, E.H. Branstad, G. M. Bonetto, R. Zeeck, A. G. Carpenter, **J. O. Sarturi**, and H.A. Ramirez-Ramirez. 2018. Effects of feeding corn stover-based pellets with soybean meal or distillers grains on lactating dairy cow performance. *J. Dairy Sci* (Suppl. 2): 416-417.

A.D. DuMez, B.C. Dooley*, C.S. McCarthy, E.H. Branstad, G. M. Bonetto, R. Zeeck, A. G. Carpenter, **J. O. Sarturi**, and H.A. Ramirez-Ramirez. 2018. Effects of feeding corn stover pelleted with soybean meal or distillers grains on chewing activity and ruminal pH of dairy cows. *J. Dairy Sci* (Suppl. 2): 23.

Alrumaih, A., **J. O. Sarturi**, M. A. Ballou, B. J. M. Lemos, J. D. Sugg*, P. R. B. Campanili, L. A. Ovinge, and L. A. Pellarin. 2017. Dry-rolled corn reconstitution using sorghum silage. *J. Anim. Sci.* doi:10.2527/ajasann.2017.606

Kondratovich, L. B., **J. O. Sarturi**, M. A. Ballou, D. Sugg, P. R. B. Campanili, B. Q. Reis, A. C. B. Melo, L. A. Pellarin, and L. A. Ovinge. 2017. Effects of fibrolytic enzyme on in-vitro true digestibility of by-products commonly fed to cattle. *J. Anim. Sci.* doi:10.2527/ajasann.2017.552

J. D. Sugg, **J. O. Sarturi**, C. P. West, L. L. Baxter, and L. A. Pellarin. 2017. Assessment of *Eragrostis tef* (Zucc.) as a forage base for growing beef steers. *J. Anim. Sci.* doi:10.2527/ajasann.2017.275

Reis, B. Q., R. Ferreira Carvalho, **J. O. Sarturi**, P. R. B. Campanili, L. A. Pellarin, and L. A. Ovinge. 2017. Effects of *Eucalyptus citriodora* oil on beef cattle ruminal fermentation characteristics on continuous culture system. *J. Anim. Sci.* doi:10.2527/ajasann.2017.554

Alrumaih, A., **J. O. Sarturi**, W. Xu, M. A. Ballou, B. J. M. Lemos, J. D. Sugg, P. R. B. Campanili, L. A. Ovinge, and L. A. Pellarin. 2017. Effects of irrigation levels of corn silage hybrids on nutrient profile and in vitro disappearances. *J. Anim. Sci.* doi:10.2527/asasann.2017.607

Gautan, K. K., S. J. Trojan, **J. O. Sarturi**, and M. A. Ballou. 2016. Lactation performance, in situ degradability, and rumen fermentation of Holstein cows fed BMR-6 sorghum silage versus corn silage-based diets. *J. Anim. Sci.* (E-Suppl. 5/J): 94

Sugg, J. D., P. R. Campanili, C. P. West, L. L. Baxter, **J. O. Sarturi**, and S. J. Trojan. 2016. Evaluation of *Eragrostis tef* (Zucc.) as a forage option for grazing beef cattle in the Southern High Plains. Proceedings, Western Section, American Society of Animal Science. Vol.67.

Campanili, P. R. B., **J. O. Sarturi**, S. J. Trojan, M. A. Ballou, L. A. Pellarin, D. Sugg, L. A. Ovinge, A. Alrumaih, and A. Hoffman. 2016. Effects of silage type and inclusion level on ruminal characteristics and feeding behavior of feedlot steers. *J. Anim. Sci.* (accepted)

Campanili, P. R. B., **J. O. Sarturi**, S. J. Trojan, M. A. Ballou, B. J. M. Lemos, L. A. Ovinge, J. B. G. Mayorquin. 2016. Effects of growing system and silage type on feedlot growth performance, carcass characteristics, and nutrient digestibility of beef steers. *J. Anim. Sci.* (accepted)

Ovinge, L.A., **J.O. Sarturi**, P.R.B. Campanili, B.J.M. Lemos, B. Bernhard, D. Pettit. 2016. Cotton burrs as alternative roughage to adapt beef steers to steam-flaked corn-based finisher diet. *J. Anim. Sci.* (accepted)

Ovinge, L.A., **J. O. Sarturi**, M. L. Galyean, L. A. Pellarin, P. R. B. Campanili. 2016. Effect of live yeast fed to natural-program beef steers during the finishing phase. *J. Anim. Sci.* (accepted)

A. Gulick, K. M., Freeman, **J.O. Sarturi**, B. Bernhard, and J. M. Neary. 2016. Subclinical right heart failure may contribute to the development of liver disease in feedlot cattle during the finishing phase. *J. Anim. Sci.* (accepted)

Freeman, K. M., A. Gulick, **J.O. Sarturi**, B. Bernhard, and J. M. Neary. 2016. Body fat distribution is a determinant of pulmonary arterial and central venous pressures in feedlot cattle. *J. Anim. Sci.* (accepted)

Pellarin, L. A., **J.O. Sarturi**, P. R. B. Campanili, L. A. Ovinge, B. C. Bernhard, B. J. Johnson, J. C. Brooks, and E. W. Hellman. 2016. Effects of red grape pomace to adapt beef cattle to finishing diets and spoilage mitigation strategies. *J. Anim. Sci.* (accepted)

Opheim, T. L., P. R. B. Campanili, B. J. A. Lemos, L. A. Ovinge, J. O. Baggerman, K. C. McCustion, J. Dwyer, M. L. Galyean, **J.O. Sarturi**, S. Trojan. 2015. An evaluation of biofuels co-products in feedlot diets: cattle growth performance, carcass characteristics, apparent nutrient digestibility, and water use assessment of feedstock sources. *J. Anim. Sci.* Western section (accepted)

Campanili, P. R. B., **J.O. Sarturi**, M. L. Galyean, S. Trojan, L. A. Ovinge, B. J. A. Lemos, A. Thompson, D. Klein, M. Venugopal, B. Johnson. 2015. Inoculant effects on silage fermentation and aerobic stability of sorghum wet co-products/roughage blends. *J. Anim. Sci.* (Suppl.2): 98

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Sarturi, J.O., G.E. Erickson, T. J. Klopfenstein, J. T. Vasconcelos, W. A. Griffin and J. R. Benton. 2010. Growth performance of finishing steers fed dry or wet distillers grains plus solubles differing in sulfur content. *J. Anim. Sci.* 88 (Suppl. 2): 204

M. Zopollatto, L.G. Nussio, **Sarturi, J.O.**, C.M.M. Bittar, P. Schmidt and G.B. Mourão. 2010. Quality traits of the stem from corn hybrids for silage production according to the maturity stage. *J. Anim. Sci.* 88 (Suppl. 2): W122

M.G. Dib, G.E. Erickson, T.J. Klopfenstein, **Sarturi, J.O.**, R. Lindquist and K.M. Rolfe, C.D. Buckner, V.R. Bremer. 2010. Effect of feeding modified distillers grains and wet corn gluten feed compared to forage on ruminal pH, intake and digestibility when adapting cattle to finishing diets. *J. Anim. Sci.* 88 (Suppl. 2): 557

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M. Zopollatto, L.G. Nussio, **J.O. Sarturi**, C.M.M. Bittar and V.P. Santos. 2009. Nutritive value of corn cultivars for silage production according to the maturity stage. *J. Anim. Sci.* 87 (Suppl. 2): W123

Other American Conferences Abstracts

English, A. R., M. M. Brashears, S. A. Handley, D. I. Ayala, A. Echeverry, **J. O. Sarturi**, T. L. Opheim, M. F. Miller, and K. K. Nightingale. 2018. Effect of lactobacillus salivarius I28 used as a feed additive on the gut microbiome of feedlot cattle. 64th International Congress of Meat Science and Technology - ICoMST – Melbourne, Australia

Hoffmann, C. A., **J. O. Sarturi**, B. Q. Reis, M. F. Miller, M. M. Brashears, D. D. Millen, J. T. Milopoulos, and T. L. Opheim. 2018. Ruminant papillae morphology and volatile fatty acid profile of beef feedlot steers fed combinations of feed additives. Plains Nutrition Council Spring Conference – San Antonio, TX

Kondratovich, L.B., **J.O. Sarturi**, M. Ballou, A. B. Mello, P.R.B. Campanili, L.A. Pellarin, and M. E. Hanlon. 2018. Effects of exogenous fibrolytic enzymes on beef cattle fed growing diets: Metabolism study. Plains Nutrition Council Spring Conference – San Antonio, TX

Sugg, J. D., **J. O. Sarturi**, C. P. West, L. L. Baxter, and L. A. Pellarin. 2017. Assessment of Eragrostis Tef (Zucc.) as a forage base for growing beef steers. Plains Nutrition Council Spring Conference – San Antonio, TX

Alrumaih, A. A., **J. O. Sarturi**, M. A. Ballou, B. J. M. Lemos, J. D. Sugg, P. R. B. Campanili, L. Ovinge, and L. A. Pellarin. 2017. Dry rolled corn reconstitution using sorghum silage. Plains Nutrition Council Spring Conference –

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Opheim, T. L., **J. O. Sarturi**, M. E. Bueso, M. F. Miller, M. M. Brashears. 2017. A continued assessment of local byproducts in beef finishing diets in Honduras. AMSA. 14071-09

English, A., A. Echeverry, **J. O. Sarturi**, T. Opheim, K. Nightingale, M. Miller, M. Brashears. 2017. Antimicrobial resistance patterns of enterococcus isolated from feedlot cattle after feeding direct-fed microbials in diets with and without tylosin. AMSA. 16054-06

English, A. R., A. Echeverry, **J. O. Sarturi**, T. L. Opheim, K. K. Nightingale, M. F. Miller, M. M. Brashears. 2017. Effectiveness of a direct-fed microbial I28 on the antimicrobial resistance of generic *Escherichia coli*. 63rd International Congress of Meat Science and Technology - ICoMST – Cork, Ireland

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Opheim, T. L., C. Carpio, **J. O. Sarturi**, M. F. Miller, M. E. Bueso, and M. M. Brashears. 2017. An evaluation of the relationship between increased carcass weight and profitability in honduran feedlot cattle. 63rd International Congress of Meat Science and Technology - ICoMST – Cork, Ireland

Pellarin, L.A., **J.O. Sarturi**, P.R.B. Campanili, L.A. Ovinge, B. C. Bernhard, B. Johnson, J.C. Brooks, E. Hellman. 2016. Red grape pomace to adapt beef cattle to finishing diets and spoilage mitigation strategies. Plains Nutrition Council Spring Conference – San Antonio, TX

Inestroza, B., M. Miller, A. English, M. Bueso, T. Opheim, **J. O. Sarturi**, and M. M. Brashears. 2016. Salmonella presence on hides, carcasses and in lymph nodes in beef cattle fed palm kernel meal and poultry litter based diets in Honduras during dry and rainy seasons. RMC, AMSA. (accepted)

Opheim, T. L., M. Bueso, R. N. Carmichael, S. J. Trojan, **J. O. Sarturi**, M. Miller, and M. M. Brashears. 2016. An assessment of local byproducts in beef finishing diets in Honduras. RMC, AMSA. (accepted)

Ovinge, L.A., **J. O. Sarturi**, S. J. Trojan, M. L. Galyean, L. A. Pellarin, P. R. B. Campanili. 2016. Effect of live yeast fed to natural-program beef steers during the finishing phase. Plains Nutrition Council Spring Conference – San Antonio, TX

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Ovinge, L. A., **J.O. Sarturi**, G.E. Erickson, T. J. Klopfenstein. 2015. Behavioral evaluation when using wet corn gluten feed or wet distillers grains plus solubles to adapt cattle to finishing diets. Plains Nutrition Council Spring Conference – San Antonio, TX

P.R.B. Campanili, **J.O. Sarturi**, S.J. Trojan, M.C. Tabke, T.R. Schmidt. 2014. Agronomic evaluation of grain sorghum hybrids for cattle feeding purpose. Plains Nutrition Council Spring Conference – San Antonio, TX.

Sarturi, J.O., L.G. Nussio, M. Zopollatto, P. Schmidt, V. P. Santos and R.C. Amaral. 2009. Effects of sodium benzoate on the crude energy content during aerobic exposition of low pectin wet citrus pulp silages. XVth International Silage Conference – Madison, WI.

Sarturi, J.O., M. Zopollatto, L.G. Nussio, R.C. Amaral, N.L. Lombardi, S.G and Toledo Filho. 2009. Effects of Propionibacterium acidipropionici and associations on the aerobic stability of corn silage. XVth International Silage Conference – Madison, WI.

M. Zopollatto, L.G. Nussio, **Sarturi, J.O.**, R.C. Amaral, N.L. Lombardi, G.B. Muraro and Daniel, J.L.P. 2009. Fermentative parameters of corn silages inoculated with *Propionibacterium acidipropionici* or in association with *Lactobacillus buchneri*. XVth International Silage Conference – Madison, WI.

L.G. Nussio, M. Zopollatto, R.C. Amaral, Natália, **Sarturi, J.O.**, and V.P. Santos. 2009. Nutritive value of corn silage inoculated with *Propionibacterium acidipropionici*, alone or in combination with *Lactobacillus buchneri*. XVth International Silage Conference – Madison, WI.

L.G. Nussio, M.P.C. Gallo, G.B. Muraro, R.C. Amaral, **Sarturi, J.O.**, and T.F. Bernardes. 2009. Nutritive value, total losses and aerobic stability of sugarcane top silages treated with additives at ensiling. XVth International Silage Conference – Madison, WI.

R. C. Amaral, L. G. Nussio, T. F. Bernardes, **Sarturi, J.O.**, G. B. Muraro and J. L. P. Daniel. 2009. Top losses in silos containing corn silage according to the sealing method adopted. XVth International Silage Conference – Madison, WI.

Brazilian Society of Animal Science Abstracts

A.L.B. Schogor, L.G. Nussio, G.B. Mourão, J.G.M. Maldonado, **Sarturi, J.O.** and R.S. Goulart. 2009. Sugarcane variety IAC86-2480 nutritional characteristics under different harvest methods. *Brazilian J. of Anim. Sci.* 46th Annual Meeting, Maringa-PR/Brazil

B.C. Queiroz, R.D.R.T. Thiago, L.G. Nussio, R.S. Goulart, **Sarturi, J.O.** and G.B. Muraro. 2009. Sugarcane variety IAC86-2480 morphological composition under different harvest methods. *Brazilian J. of Anim. Sci.* 46th Annual Meeting, Maringa-PR/Brazil

Sarturi, J.O., L.G. Nussio, M. Zopollatto, L.J. Mari, J.L. Ribeiro, M.C. Santos and O.C.M. Queiroz. 2008. Chemical-bromatologic composition of low-pectin wet citrus pulp silage added with sodium benzoate. *Brazilian J. of Anim. Sci.* 45th Annual Meeting, Lavras-MG/Brazil

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Sarturi, J.O., L.G. Nussio, M. Zopollatto, J.G.M. Maldonado, L.J. Mari, J.L. and Ribeiro. 2007. Performance of beef cattle fed silage of citrus byproducts in partial substitution of pelleted citrus pulp. *Brazilian J. of Anim. Sci.* 44th Annual Meeting, Jaboticabal-SP/Brazil

J.G.M. Maldonado, L.G. Nussio, **Sarturi, J.O.**, A.L.B. Schogor, L.J. Mari and M.C. Santos. 2007. Evaluation of *Lactobacillus plantarum* associated with sodium benzoate on the sugar cane (*Saccharum officinarum*) silage fermentation control. *Brazilian J. of Anim. Sci.* 44th Annual Meeting, Jaboticabal-SP/Brazil

F.T. Tonato, V.A. Guarda, M.A.S. Lara, **Sarturi, J.O.**, and P.M. Santos. 2007. Desiccants use in the wilting of *Brachiaria brizantha* - cv. Marandu seeking the forage conservation, morphological parameters. *Brazilian J. of Anim. Sci.* 44th Annual Meeting, Jaboticabal-SP/Brazil

V.A. Guarda, M.A.S. Lara, **Sarturi, J.O.**, F. Tonato and P.M. Santos. 2007. Physiologic parameters of *Brachiaria brizantha* - cv. Marandu, submitted to doses of Glyphosate in the process of forage conservation. *Brazilian J. of Anim. Sci.* 44th Annual Meeting, Jaboticabal-SP/Brazil

Sarturi, J.O., L.G. Nussio, F.A.P. Santos, M. Zopollatto, L.J. Mari, J.L. Ribeiro, O.C.M. Queiroz, M.C. Santos, V.P. Santos, L.S. Ferreira, J.G.M. Maldonado, P. Schmidt and S.G. Toledo Filho. 2006. Performance of beef cattle fed citrus residues in partial substitution of pelleted citrus pulp. *Brazilian J. of Anim. Sci.* 43th Annual Meeting, Joao Pessoa-PB/Brazil

L.C. Leite, E.C. Eifert, D.P. Sousa, R.S. Goulart, **Sarturi, J.O.**, P.P. Santos, M.I. Leão, H.M.F. Madeira and D.P.D. Lanna. 2006. Milk composition from dairy cows fed fish or soybean oil at two levels of concentrate. *Brazilian J. of Anim. Sci.* 43th Annual Meeting, Joao Pessoa-PB/Brazil

L.S. Ferreira, C.M.M. Bittar, A.V. Pires, W. Mattos, V.P. Santos, M. Zopollatto and **Sarturi, J.O.** 2006. Effect of different additives on performance and forestomach growth of dairy calves. *Brazilian J. of Anim. Sci.* 43th Annual Meeting, Joao Pessoa-PB/Brazil

M. Zopollatto, L.G. Nussio, M.C. Junqueira, **Sarturi, J.O.**, J.L. Ribeiro, L.J. Mari¹, P. Schmidt, L.S. Ferreira, A.P. Duarte and C.M.M. Bittar. 2006. Nutritive value and agronomic parameters of corn silage cultivars in different maturity stages. *Brazilian J. of Anim. Sci.* 43th Annual Meeting, Joao Pessoa-PB/Brazil

M.C. Santos, L.G. Nussio, G.B. Mourão, L.J. Mari, O.C.M. Queiroz, J.L. Ribeiro, P. Schmidt, M. Zopollatto, D.P. Sousa, S.G.T. Filho and **Sarturi, J.O.** 2006. Evaluation of cell wall constituents in green chopped sugarcane (*Saccharum officinarum*) treated with increasing levels of calcium oxide. *Brazilian J. of Anim. Sci.* 43th Annual Meeting, Joao Pessoa-PB/Brazil

P. Schmidt, L.G. Nussio, L.J. Mari, J.L. Ribeiro, J.E. Oliveira, M.C. Santos, G.B. Mourão, O.C.M. Queiroz, **Sarturi, J.O.** and M. Zopollatto. 2006. Performance of beef cattle heifers fed sugar cane silage rations of two varieties, added with CaO. *Brazilian J. of Anim. Sci.* 43th Annual Meeting, Joao Pessoa-PB/Brazil

Scientific Initiation Abstracts

Hanlon, M.E., L. Kondratovich, P.B. Campanili, L. Pellarin, L. Ovinge, A. Alrumaith, **J. O. Sarturi**. 2017. Effects of fibrolytic enzymes on cattle intake and nutrient digestibility. TTU Undergraduate Research Conference – Lubbock, TX – USA.

Reis, B. Q, R. F. Carvalho, P. R. B. Campanili, L. A. Pellarin, L. Ovinge, and **J. O. Sarturi**. 2017. Effects of Eucalyptus citriodora oil on beef cattle ruminal fermentation characteristics in a continuous culture fermentation system. TTU Undergraduate Research Conference – Lubbock, TX – USA.

Pellarin, L. A., **J.O. Sarturi**, B. Johnson, C. Brooks, E. Hellman. 2016. Effects red grape pomace as alternative roughage source in the adaptation period of feedlot finishing steers. TTU Undergraduate Research Conference – Lubbock, TX – USA.

Hoffman, A. **J.O. Sarturi**, S. J. Trojan. 2016. Sorghum silage: Sorghum Silage: A Viable Alternative to Corn Silage? TTU Undergraduate Research Conference – Lubbock, TX – USA.

Ovinge, L. A., **J.O. Sarturi**, G.E. Erickson, T. J. Klopfenstein, R. Stock. 2015. Behavioral evaluation when using wet corn gluten feed or wet distillers grains plus solubles to adapt cattle to finishing diets. TTU Undergraduate Research Conference – Lubbock, TX – USA.

P.R.B. Campanili, **J.O. Sarturi**, S.J. Trojan. 2015. Ruminal degradation Kinetics of nutritional components of grains sorghum hybrids crop residues grown under challenging water conditions. TTU Undergraduate Research Conference – Lubbock, TX – USA.

P.R.B. Campanili, **J.O. Sarturi**, S.J. Trojan. 2015. Nutritional assessment of grain sorghum hybrids crop residues grown under challenging water condition. TTU Undergraduate Research Conference – Lubbock, TX – USA.

J. B. Gomez, T. Opheim, P.R.B. Campanili, **J.O. Sarturi**, S.J. Trojan. 2015. Digestibility of BMR Forage sorghum silage compared to corn silage in beef feedlots steers diets. TTU Undergraduate Research Conference – Lubbock, TX – USA.

P.R.B. Campanili, **J.O. Sarturi**, S.J. Trojan, M.C. Tabke, T.R. Schmidt. 2014. Agronomic evaluation of grain

sorghum hybrids for cattle feeding purpose. TTU Undergraduate Research Conference – Lubbock, TX – USA.

M.P.C. Gallo, L.G. Nussio, **Sarturi, J.O.**, V.P. Santos, S.G.T. Filho and G.B. Muraro. 2007. Chemical, microbial and driers additive effects on dry matter losses and effluent of top sugarcane silages. International symposium of scientific initiation of the University of Sao Paulo - Piracicaba, SP – Brazil.

Sarturi, J.O., L.G. Nussio, M. Zopollatto and V.P. Santos. 2006. Aerobic stability of wet silages prepared with despectinated citrus pulp containing chemical additives. International symposium of scientific initiation of the University of Sao Paulo - Piracicaba, SP – Brazil.

Sarturi, J.O., A.S. Carvalho, M. Zopollatto, P. Schmidt, O.C.M. Queiroz and R.N. Figueiró. 2005. Aerobic stability of silages containing urea or sodium benzoate. International symposium of scientific initiation of the University of Sao Paulo - Piracicaba, SP – Brazil.

Ph.D. Dissertation

Sarturi, J.O., 2012. Sulfur from wet or dry distillers in feedlot cattle diets and the ruminal available sulfur concept. University of Nebraska - Lincoln

M.S. Thesis

Sarturi, J.O., 2008. The effects of low-pectin wet citrus pulp in partial replacement of pelleted citrus pulp on beef cattle growth performance. University of Sao Paulo – USP/ESALQ (Brazil)

GRANTS

Funded

Brashears, M., M. Miller, **J. O. Sarturi**, E. Eschevery. “Supplementation of L28 Direct-Fed Microbial on Growth Performance, Feed Efficiency and Pathogen Shedding in Beef Cattle Feed Conventional Diets Supplemented with and without Subtherapeutic Antibiotics.” Texas Beef Council. \$50,000. 2018 to 2019.

Sarturi, J.O. College of Agricultural Sciences and Natural Resources – Texas Tech University. Mini-Teaching Grant. \$ 1,325. 2018.

Hall, N., **J. O. Sarturi**. “Title Effects of direct-fed microbial supplementation on dietary nutrient digestibility and fecal characteristics of dogs” Fujisaki International LLC. \$ 26,721. 05/2018 to 12/2019.

Sarturi, J.O., M. Ballou. “Effects of feed-grade fibrolytic enzyme on nutrient in vitro disappearance of fibrous byproducts”. AB Vista. \$6,534. 2016 to 2017.

Johnson, B., **J. O. Sarturi**, C. Brooks, and B. Bernhard. “Title: Red grape pomace to adapt beef cattle to finishing diets and spoilage mitigation strategies” Texas A&M AgriLife Research and Extension (Ed Hellman) \$7,929. 01/2016 to 12/2016.

Brashears, M., M. Miller, **J. O. Sarturi**, T. Brashears. “Building capacity in the Honduran cattle, sheep, and goat industries through investment in research and education.” Government of Honduras – Minister of Economy: Arnaldo Castillo. \$385,000. 2016 to 2018.

Brashears, M., M. Miller, **J. O. Sarturi**, E. Eschevery. “Alternatives to sub therapeutic antibiotics in beef cattle feeding to improve growth performance and mitigate emergency of antimicrobial drug resistance.” Texas Beef Council. \$50,000. 2016 to 2017.

- Sarturi, J.O.**, M. Ballou., S. Trojan. “Effects of feed-grade fibrolytic enzyme on ruminal characteristics and fiber degradability of beef cattle fed forage/roughage-based growing diets”. AB Vista. \$79,339. 2016 to 2017.
- Sarturi, J.O.**, Trojan, S., Galyean, M. “Effects of feed-grade live yeast on growth performance, carcass characteristics and nutrient digestibility of finishing beef cattle.” AB Vista. \$107,149 04/2015 to 12/2016.
- Sarturi, J.O.**, Trojan, S. “Improving Sorghum-Sudan silage grown under limited water supply.” Ogallala Aquifer Project. \$14,230 11/2014 to 12/2015.
- Ballou, M., Trojan, S., **J.O. Sarturi**. “Comparing the nutritional and economic value of Advanta US brachytic dwarf bmr6 sorghum silage with a leading corn silage hybrid.” Advanta US. \$74,444. 04/2014 to 03/2015.
- Trojan, S., **J.O. Sarturi**., Ballou, M., West, C. “Enhancing the viability of forage sorghum for beef cattle production in the Southern Great Plains.” Advanta US. \$149,950 01/2014 to 12/2015.
- Trojan, S., **J.O. Sarturi**. “An evaluation of biofuel feedstock and blended co-products compared to de-oiled corn distillers grains in feedlot cattle diets: effects on cattle growth performance and carcass characteristics.” United Sorghum Checkoff Program. \$20,000 10/2013 to 12/2014.
- Trojan, S., **J.O. Sarturi**. “An evaluation of biofuel feedstock and blended co-products compared to de-oiled corn distillers grains in feedlot cattle diets: effects on cattle growth performance and carcass characteristics.” Texas Cattle Feeders Association (TCFA). \$9,295 7/2013 to 12/2014.
- Sarturi, J.O.**, B. Johnson, S. Trojan, M. L. Galyean. “Dry matter losses and fermentation profile of silages containing blends of ethanol co-products and low-quality roughages”. DeLaval Manufacturing. \$31,416. 01/2014 to 12/2014.
- Ballou, M., L. Barbato, K. Mulligan, G. Cao, M. Burow, R. Williams, S. Seshadni, V. Mendu, C. West, S. Trojan, G. Ritchie, J. Woodward, **J.O. Sarturi**. “Improving Water Productivity and New Water Management Technologies to Sustain Rural Economies-TTU.” USDA Agricultural Research Service. \$ 282,125 9/2012 to 08/2017.
- Sarturi, J.O.**, M. L. Galyean. “Effects of tannic acid on growth performance and carcass characteristics of finishing beef cattle”. Silva Team Company. \$51,978. 05/2013 to 05/2014.

OTHER RESEARCH/SERVICE RELATED RESPONSIBILITIES

- Manager for the **Ruminant Nutrition Center** (cattle metabolism area), New Deal Farm, Texas Tech University, Idalou – TX. **2014 to current**. Capacity for 10 large ruminants (10 individual-stall collection facility, automatic water troughs, feed bunk, drainage system, sewage bacterial treatment system, walk-in cooler, supplies room, and apartment).
- Member of the **Food Security Cluster Group** (Beef Cattle Nutrition and Management), organized by ICFIE (International Center for Food and Industry Excellence: under direction of Dr. Mindy Brashears), Texas Tech University, Lubbock - TX. **2015 to current**. Faculty across the College of Agricultural Sciences and Natural Resources and Human Sciences. <http://www.depts.ttu.edu/icfie/ICFIEpeople.php>
- Member of the Department of Animal and Food Sciences **Prospective Graduate Student Committee**, Texas Tech University. **2014 to current**.
- Member of the **Convocation Committee**, Texas Tech University. **2016 to current**.