

# Jhones O. Sarturi, Ph.D.

1308, Indiana Ave. P.O. Box: 42141  
Lubbock, TX - 79409  
O: 1 806 834 4926  
F: 1 806 742 4003  
M: 1 402 805 7869  
Skype: jhonesarturi  
[j.sarturi@ttu.edu](mailto:j.sarturi@ttu.edu)



## 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**, UNDERGRAD
- ANSC 3307, FEEDS AND FEEDING, FALL/**13/14/15/16/17**, UNDERGRAD.
- ANSC 5001, RESEARCH METHODS IN RUMINANT NUTRITION, SUMMER I&II/**15**, GRADUATE.
- ANSC 5100, SEMINAR IN AGRICULTURE /NUTRITION, SPRING/**15/16/17** 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**

**January, 2014 - current**

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

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (**IACUC**)

**August, 2016 - current**

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)

**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)23<sup>RD</sup> FEEDLOT TRAINING COURSE: CLASS: PRODUCTION AND SCIENTIFIC BASE OF SELECTION ON FORAGE SOURCES FOR FEEDLOT SYSTEMS, 20083<sup>RD</sup> SUGAR CANE SILAGE COURSE: TECHNIQUE AND ECONOMIC ANALYSIS: CLASS: PRODUCTION COST OF SUGAR CANE SILAGE AND ECONOMIC ANALYSIS OF SILAGE ADDITIVE USE, 20087<sup>TH</sup> IRRIGATED PASTURES COURSE: CLASS: HYDRIC STRESS AND QUALITY FORAGE RELATIONSHIP, 20087<sup>TH</sup> COURSE ON BASIC CONCEPTS OF TECHNIC/ECONOMIC PLANNING OF DAIRY CATTLE PRODUCTION SYSTEMS: CLASS: PRODUCTION, PLANNING AND CONSERVATION OF FORAGES, 200812<sup>TH</sup> 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:**

**11<sup>th</sup> 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, 2<sup>nd</sup> 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:***

American Association for the Advancement of Science (AAAS), since 2014

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 State 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:***

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?

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: 20. 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 – Texas, 2015: 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

11<sup>th</sup> 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:**

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

**Graduate students:**

**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: Fall/2019.

**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:***

Whitney Stuart, Ph.D. Animal and food sciences, TTU. Expected Graduation: 2018

Zachary Smith, Ph.D. Animal and Food Sciences, TTU. Expected Graduation: 2018

Tyler Vogel, M.S. Animal and Food Sciences, TTU. Expected Graduation: 2017

Amy Petry, M.S. Animal and Food Sciences, TTU. Expected 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 Intern students:***

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 Decemver of 2015.

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

Lauren Ovinge. Alberta, Canada. Major: Animal Science, Canada. August 1<sup>st</sup> of 2014 to December 31<sup>st</sup> 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 1<sup>st</sup> 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 31<sup>st</sup> 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. 2017. Effects of growing system and silage type on feedlot growth performance, carcass characteristics, nutrient digestibility, and feeding behavior of beef steers. *Prof Anim. Sci.* (submitted ID: PAS-17-01622).

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. 2017. Effects of a live yeast in natural program finishing feedlot diets on growth performance, digestibility, carcass characteristics, and feeding behavior. *J. Anim. Sci.* (submitted ID: E-2017-1529).

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 Agricola.* 66:159-163.

Zopollato, 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 6<sup>th</sup> Symposium of Beef Cattle Production and 2<sup>nd</sup> 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. Luebke, 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

- 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/asasann.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/asasann.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/asasann.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/asasann.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
- 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
- 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.
- 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)
- 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)
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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**

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 – San Antonio, TX

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

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

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. Plains Nutrition Council Spring Conference – San Antonio, TX

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. XV<sup>th</sup> 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. XV<sup>th</sup> 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. XV<sup>th</sup> 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. XV<sup>th</sup> 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. XV<sup>th</sup> 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. XV<sup>th</sup> 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.* 46<sup>th</sup> Annual Meeting, Maringá-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.* 46<sup>th</sup> Annual Meeting, Maringá-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.* 45<sup>th</sup> Annual Meeting, Lavras-MG/Brazil

**Sarturi, J.O.**, L.G. Nussio, M. Zopollatto, P. Schmidt, V.P. Santos, M.P.C. Gallo and M.R.H. Silva. 2008. Fermentative profile of low-pectin wet citrus pulp silage added with sodium benzoate. *Brazilian J. of Anim. Sci.* 45<sup>th</sup> Annual Meeting, Lavras-MG/Brazil

**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.* 44<sup>th</sup> 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.* 44<sup>th</sup> 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.* 44<sup>th</sup> 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.* 44<sup>th</sup> 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.* 43<sup>th</sup> 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.* 43<sup>th</sup> 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.* 43<sup>th</sup> Annual Meeting, Joao Pessoa-PB/Brazil

M. Zopollatto, L.G. Nussio, M.C. Junqueira, **Sarturi, J.O.**, J.L. Ribeiro, L.J. Mari<sup>1</sup>, 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.* 43<sup>th</sup> 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.* 43<sup>th</sup> 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.* 43<sup>th</sup> 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**

**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." Texas Cattle Feeders Association/United Sorghum Checkoff Program/Conestoga Energy. \$49,295 3/2014 to 12/31/2014.

**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.

**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. 2013 to 2014.

## **OTHER RESEARCH/SERVICE RELATED RESPONSIBILITIES**

Manager for the **Ruminant Nutrition Center** (cattle metabolism area), New Deal Farm, Texas Tech University, New Deal – 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**.