

JHONES O. SARTURI, PH.D.

TEXAS TECH UNIVERSITY, DEPARTMENT OF ANIMAL AND FOOD SCIENCES
DAVIS COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES
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https://www.depts.ttu.edu/afs/people/faculty_sarturi.php



EDUCATION

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

Associate Professor

TEXAS TECH UNIVERSITY DEPARTMENT OF ANIMAL & FOOD SCIENCES
DAVIS COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

September, 2019 - current

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

Tenure

TEXAS TECH UNIVERSITY DEPARTMENT OF ANIMAL & FOOD SCIENCES
COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

February, 2019

Assistant Professor

TEXAS TECH UNIVERSITY DEPARTMENT OF ANIMAL & FOOD SCIENCES
COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

March, 2013 – September, 2019

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

Postdoctoral Research Associate

TEXAS A&M AGRILIFE RESEARCH

April, 2012 to February 2013

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

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 and undergraduate course responsibilities:**

- ANSC 4405, CATTLE STOCKER AND FEEDLOT MANAGEMENT, FALL/2016 TO 2023
- ANSC 3307-S01, FEEDS AND FEEDING: **SERVICE-LEARNING CLASS** SPRING/2013 TO 2023
- ANSC 3307, FEEDS AND FEEDING: FALL/2021
- ANSC 5303, ADVANCED BEEF CATTLE FEEDYARD MANAGEMENT, FALL/2016 TO 2023
- ANSC 5406, RESEARCH METHODS IN RUMINANT NUTRITION, SUMMER I&II/15/18/20/22
- ANSC 5100, SEMINAR IN AGRICULTURE /NUTRITION, SPRING/2015 TO 2023
- ANSC 5308, MINERALS AND VITAMINS IN ANIMAL NUTRITION, SUMMER/14/16/19/23

Guest Lecturer for graduate and undergraduate courses:

- ANSC 3307, FEEDS AND FEEDING, SPRING/14 (MINERALS & VITAMINS; BYPRODUCTS; ADDITIVES), UNDERGRAD.
- ANSC 5311, RUMINANT NUTRITION, FALL/18/19/20/21/22, (MINERALS & VITAMINS; RELATED DISORDERS), GRADUATE.

Manager for the Ruminant Nutrition Laboratory**January, 2014 - current**

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

Manager for the Ruminant Nutrition Center**January, 2014 - current**

NEAL DEAL RESEARCH AND EDUCATION CENTER, IDALOU – TX (FACILITY 812 AND 815).

American Society of Animal Science (ASAS) Program Committee**Sept., 2021 - current**

MEMBER, NATIONAL ASAS BEEF SPECIES AND RUMINANT NUTRITION PROGRAMMING COMMITTEE.

Member of the Food Security Cluster Group**January, 2015 - current**(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. <http://www.depts.ttu.edu/icfie/ICFIEpeople.php>**Member of the Prospective Graduate Student Committee****January, 2014 - current**

DEPARTMENT OF ANIMAL AND FOOD SCIENCES, TTU - LUBBOCK - TX.

Elected Faculty Senator**2022/2025 CYCLE**TEXAS TECH UNIVERSITY - DAVIS COLLEGE OF AGRICULTURAL SCIENCES
& NATURAL RESOURCES**Member of the Convocations Committee****January, 2016 - current**

TEXAS TECH UNIVERSITY - LUBBOCK - TX.

Chair of the Convocations Committee**2021/2022 CYCLE**

TEXAS TECH UNIVERSITY - LUBBOCK - TX.

Past-Chair of the Convocations Committee

2022/2023 CYCLE

TEXAS TECH UNIVERSITY - LUBBOCK - TX.

Member of the International Activities Committee

January, 2018 - current

COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES (CASNR), TTU - LUBBOCK - TX.

Davis-CASNR Graduation Ceremony Reader

December/2021, May/2023

DAVIS COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES. (DAVIS-CASNR), TTU - LUBBOCK - TX.

Member of the Diversity, Equity, and Inclusion Committee

January, 2021 - current

DAVIS COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES (DAVIS-CASNR), TTU - LUBBOCK - TX.

Graduate Research Assistant

November, 2005 to March, 2012

UNIVERSITY OF NEBRASKA-LINCOLN

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, 2008

3RD SUGAR CANE SILAGE COURSE: TECHNIQUE AND ECONOMIC ANALYSIS: CLASS: PRODUCTION COST OF SUGAR CANE SILAGE AND ECONOMIC ANALYSIS OF SILAGE ADDITIVE USE, 2008

7TH IRRIGATED PASTURES COURSE: CLASS: HYDRIC STRESS AND QUALITY FORAGE RELATIONSHIP, 2008

7TH COURSE ON BASIC CONCEPTS OF TECHNIC/ECONOMIC PLANNING OF DAIRY CATTLE PRODUCTION SYSTEMS: CLASS: PRODUCTION, PLANNING AND CONSERVATION OF FORAGES, 2008

12TH 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

Research Resident 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:

9 - **TTU Faculty Banner Bearer for the Graduate School Graduation Ceremony**
2023 – Texas Tech University, Graduate School; May/2023 Commencement.

8 - **2022 Texas Tech University Outstanding Faculty Mentor Award**
2022 – Texas Tech University by TrUE (Transformative Undergraduate Experiences), Lubbock – TX; March 2022.

7 - **2021 TLPDC Spotlight Award**
2021 – Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; June 2021.

6 - **2021 Texas Tech University Outstanding Faculty Mentor Award**
2021 – Texas Tech University by TrUE (Transformative Undergraduate Experiences), Lubbock – TX; April 2021.

5 - **36th Apple Polishing Ceremony Awardee**
2020 – Texas Tech Mortar Board, Lubbock – TX; November 2020.

4 - **11th World Conference on Animal Production Awardee**
2013 – 11 WCAP Young Scientist Financial Award for North America - Beijing, China

3 - **American Society of Animal Science Award**

- 2011 – PhD oral competition, 2nd place, Forty-fourth MIDWEST Meeting American Society of Animal Science - Des Moines, IA
- 2 - Department of Animal Science Awards, University of Nebraska**
 Arthaud travel scholarship-July 2009
 David H. & Annie E. Larrick Memorial Travel Fund – June 2010
- 1 - 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

Fellowship Awards:

- 7 - USDA HSI (E. Kika De La Garza) Fellowship program 2023**
 Dynamic network of leaders from academia and government (United States Department of Agriculture) that work to advance the excellence of education at Hispanic-Serving Institutions. Washington, DC from July 10-14, 2023.
- 6 - STEP Program – Pedagogical Specialist 2021-2022**
 STEM Teaching, Engagement & Pedagogy (STEP) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; 2020-2021.
- 5 - STEP Program – Pedagogical Specialist 2020-2021**
 STEM Teaching, Engagement & Pedagogy (STEP) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; 2020-2021.
- 4 - STEP Program – Pedagogical Specialist 2019-2020**
 STEM Teaching, Engagement & Pedagogy (STEP) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; 2019-2020.
- 3 - STEP Program 2018-2019**
 STEM Teaching, Engagement & Pedagogy (STEP) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; 2018-2019.
- 2 - TeMPO Program 2016**
 Teacher Mentoring through Peer Observation (TeMPO) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; Fall/2016.
- 1 - TeMPO Program 2015**
 Teacher Mentoring through Peer Observation (TeMPO) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock – TX; Fall/2015.

Professional Memberships since:

- 9 - National Cattlemen's Beef Association (NCBA), since 2018
- 8 - Texas and Southwestern Cattle Raisers, from 2018 to 2019
- 7 - American Association for the Advancement of Science (AAAS), from 2014 to 2017
- 6 - Texas Cattle Feeders Association (TCFA), industry secondary associate, since 2014
- 5 - Gamma Sigma Delta, The Honor Society of Agriculture, since 2013
- 4 - American Registry of Professional Animal Scientists (ARPAS), since 2011
- 3 - American Society of Animal Science (ASAS), since 2009
- 2 - Veterinary Council, State of Mato Grosso do Sul, Brazil (CRMV/MS), since 2006
- 1 - Veterinary Association, State of Mato Grosso do Sul, Brazil (AMV/MS), since 2006

Reviewer for Scientific Journals:

- 7 - Livestock Science, 2017 to current.
- 6 - SM Journal of Animal Science, 2017 to current.
- 5 - Scientia Agricola, 2015 to current.
- 4 - Journal of Veterinary Science and Medicine, 2014 to current.
- 3 - Journal of Animal Science, 2013 to current.
- 2 - Animal: International Journal of Animal Bioscience, 2013 to current.
- 1 - Acta Agriculturae Scandinavica, Section A, Animal Sciences, 2013 to current.

Language skills:

- 3 - English, fluent
- 2 - Portuguese, fluent
- 1 - Spanish, fluent

Invited speaker:

39 - Invitation to Texas Tech University – School of Veterinary Medicine (SVM) Seminar Series, Amarillo - TX, Veterinary, Agronomy, and Animal Science: Field of discoveries and opportunities for collaboration, February 22, 2023.

38 - Panelist, High Level Education Tenure Fear at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock - TX, Face-to-Face discussion. October 6, 2022.

37 - Meeting: Novas Tendências na Produção Leiteira, INPAZA, Uberlândia – Minas Gerais, Brazil Attendance: 80. "Otimizando o uso de distillers grains na produção de ruminantes." September - 2022.

- 36 - 30º Simpósio sobre Manejo da Pastagem, USP/ESALQ, Piracicaba – São Paulo, Brazil. Symposium attendance: 350. “DDGS em sistemas de produção animal em pastagens”. September - 2022.
- 35 - Meat School in Spanish, TTU, Lubbock – TX, Workshop attendance: 75. Nutrición de Rumiantes: Sistemas con base forrajera en la producción de ganado vacuno; Nutrición de Rumiantes: Ganado Confinado/Feedlot. July - 2022.
- 34 - Silage for Beef Cattle 2022 Conference. University of Nebraska Lincoln (UNL), Eastern Nebraska Research & Extension Center, 1071 co road G, Ithaca, NE 68033. “Economics of Quality Forage in Grower and Finisher Diets”. March 17, 2022.
- 33 - STEM Teaching, Engagement & Pedagogy (STEP) Program, at Texas Tech University by TLPDC (Teaching, Learning, and Professional Development Center), Lubbock - TX, Web-discussion – LIVE: Maybe you have heard of a “Muddiest Point”, but have you ever heard of a “Muddiest Cloud?”. January 26, 2022.
- 32 - PLP (*Panhandle Livestock Professionals Fall Meeting*), Amarillo - TX, Webinar – LIVE: Why, How, and When to Improve Fiber Digestibility in Cattle Diets. October 19, 2021.
- 31 - CMC Channel (*Centro Multiplicador de Capacitação*) and CMC Flix, Brazil, Webinar – LIVE: Precocidade do sistema de produção de bovinos de corte nos EUA – O que podemos aprender aqui no Brasil? July 24, 2021.
- 30 - Lallemand, Animal Nutrition. Research Update. Webinar – LIVE: Effects of live yeast and ruminal environment on beef cattle diet digestibility: an in vitro approach. May 26, 2021.
- 29 - CMC Channel (*Centro Multiplicador de Capacitação*) and CMC Flix, Brazil, Webinar – LIVE: Princípios da suplementação de proteína e energia em sistemas de pastejo. December 21, 2020.
- 28 - Meat School in Spanish, TTU, Lubbock – TX, Workshop attendance: 65. Nutrición de Rumiantes: Sistemas con base forrajera en la producción de ganado vacuno; Nutrición de Rumiantes: Ganado Confinado/Feedlot. July - 2020.
- 27 - UFTPR - Universidade Tecnológica Federal do Paraná: CAAP (Centro Acadêmico de Zootecnia Andrien Pierre), Webinar – LIVE: Content available for in YouTube (in Portuguese). Produção de Bovinos de Corte nos EUA: Opções para Recria e Terminação. August 10, 2020.
- 26 - Top Hat Engage 2020. Top Hat Education. New Orleans, LA. Learning and applying technical concepts while serving society. March 5-7, 2020.
- 25 - TTU – Department of Animal and Food Sciences Seminar (ANSC: 5100-001). Lubbock, TX. Sorghum as forage source for beef cattle growing/finishing systems: Turning challenges into attractive attributes. January 23, 2020.

24 - VI International Symposium of Beef Cattle Production, SIMPEC, Federal University of Lavras (UFLA), Lavras – MG/Brazil. Centro de Convenções UFLA, Feedlot Adaptation Phase: Principles and Updates. September 19-21, 2019.

23 - WORKSHOP - Scientific Publishing in Animal Science: Overcoming obstacles for high quality scientific publication in Brazil. Pre-symposium event: VI International Symposium of Beef Cattle Production, SIMPEC, 2019. Federal University of Lavras (UFLA), Lavras – MG/Brazil. Centro de Convenções UFLA, September 18, 2019.

22 - WORKSHOP – Using the Beef Cattle Nutrient Requirement Model: Hands on! Pre-symposium event: VI International Symposium of Beef Cattle Production, SIMPEC. Federal University of Lavras (UFLA), Lavras – MG/Brazil. Centro de Convenções UFLA, September 17, 2019.

21 - Meat School in Spanish, TTU, Lubbock – TX, Workshop attendance: 60. Ganado Confinado: Principios y Oportunidades. July - 2019.

20 - Feria Nacional de San Marcos, Aguas Calientes – Mexico, Speaker at Meat School en español – Aguas Calientes. 1) Sistemas con base forrajera en la producción de ganado vacuno; and 2) Ganado Confinado: Una estrategia y no un cambio de actividad. April 25th, 2019.

19 - CONFINAR, Campo Grande – MS/Brazil. Centro de Convenções Rubens Gil de Camilo, Grain Processing and the use of alternative feedstuffs: Principles and Opportunities. April 23-24 of 2019.

18 - Plains Nutrition Council Spring Conference (PNC), San Antonio, Texas - TTU – Research update: Guided efforts in beef cattle nutrition. April 10 – 12, 2019.

17 - AMTS LLC, Webinar – Beef Nutritionist: Content available for USA and simultaneously translated to Brazil, Argentina, and Mexico. Reasons, Methods, and Moments to Improve Fiber Digestibility in Beef Cattle Diets. September 13, 2018.

16 - ABVista Reception at the Spring Conference of the Plains Nutrition Council (PNC), San Antonio – TX, Fiber Digestibility Upgrade: Why, How, and When? April, 2018.

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

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

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

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

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

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

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

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

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

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

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

4 - 11th World Conference on Animal Production, Beijing – China: Nitrogen from post-extraction algal residue in steam-flaked corn beef cattle finishing diets. 2013.

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

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

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

Competition Adjudicator/Juror/Moderator:

FFA (Future Farmers of America) Food Science Contest	2022, 2023
American Society of Animal Science, National Meeting	2022
New Faculty Orientation, TTU, TLPDC	2022
Queso-Cook Contest, Davis-CASNR, TTU	2022
Annual Graduate Student Research Poster Competition, TTU	2017, 2018, 2020, 2021, 2022, 2023
3-Minutes Thesis Competition, TTU	2020, 2021
Arts & Humanities Research Conference	2018, 2020, 2021
Graduate School Scholarship Awards, MS and PhD, TTU	2014, 2016, 2017, 2022, 2023

Undergraduate Research Conference, poster/oral TTU – URC	2014, 2015, 2016, 2019, 2021, 2022, 2023
American Society of Animal Science, Southern Section	2020
Bob Albin Graduate Student Research Paper Competition, TTU	2013, 2014, 2015, 2017, 2018, 2019
Doctoral Dissertation Completion Fellowship Nominations, TTU	2017
Plains Nutrition Council Conference Poster Competition, San Antonio-TX.	2014

Graduate student's advisee:

- 13 - **M.S.** Bharathwaj Polepalle, Animal and Food Sciences, TTU. Non-Thesis. Expected graduation: Summer/2024.
- 12 - **Ph.D.** Beatriz Queiroz Reis, Animal and Food Sciences, TTU. Dissertation: "Mechanism of action and novel development of target feeding live microbial to beef cattle diets". Expected graduation: Fall/2025.
- 11 - **M.S.** Alejandra Lopez, Animal and Food Sciences, TTU. Thesis: "Effects of dietary microbial inoculants on beef cattle feedlot growth performance, feeding behavior, and apparent nutrient digestibility". Graduation: Fall/2022.
- 10 - **M.S.** Kaliu S. Silva, Animal and Food Sciences, TTU. Thesis: "Effects of dietary microbial inoculants on ruminal fermentation kinetics, profile, and digestions of nutrients". Expected graduation: Spring/2023.
- 9 - **M.S.** Camron J. Rush, Animal and Food Sciences, TTU. Thesis: "Strategic feeding of direct-fed microbial and vitamin complex to feedlot cattle – calf-fed system". Graduation: Fall/2022.
- 8 - **M.S.** Kaue Tonelli Nardi, Animal and Food Sciences, TTU. Thesis: "Strategic feeding of direct-fed microbial and vitamin complex to feedlot cattle – yearling system". Expected graduation: Spring/2022.
- 7 - **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". Graduation: Summer/2019.
- 6 - **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". Graduation: Summer/2018.
- 5 - **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". Graduation: Fall/2018.

- 4 - **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.
- 3 - **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.
- 2 - **M.S.** Abdullah Alrumaih, Animal and Food Sciences, TTU. Thesis: "Improving Sorghum-Sudan silage grown under limited water supply". Expected Graduation: Spring/2017.
- 1 - **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:

- 32 - Beatriz Queiroz Reis, Ph.D., Animal and Food Sciences, TTU. Expected Graduation: 2025
- 31 - Deanna Langenkamp, M.S., Animal and Food Sciences, TTU. Graduation: 2022
- 30 - Barbara Rodrigues, Ph.D., Animal Sciences, UFMG – Federal University of Minas Gerais - Brazil. Graduation: 2022
- 29 - Kaliu Scaranto Silva, M.S., Animal and Food Sciences, TTU. Expected Graduation: 2023
- 28 - Alejandra Lopez, M.S., Animal and Food Sciences, TTU. Graduation: 2022
- 27 - Camron J. Rush, M.S., Animal and Food Sciences, TTU. Graduation: 2022
- 26 - Kaue T. Nardi, M.S., Animal and Food Sciences, TTU. Graduation: 2022
- 25 - Andrea D. Osorio, Ph.D., Animal and Food Sciences, TTU. Expected Graduation: 2024
- 24 - Andrea D. Osorio, M.S., Animal and Food Sciences, TTU. Graduation: 2019
- 23 - Sebastian Mejia, M.S., Animal and Food Sciences, TTU. Graduation: 2019
- 22 - Philip Urso, Ph.D. Animal and Food Sciences, TTU. Graduation: 2020
- 21 - Tosha Opheim, Ph.D. Animal and Food Sciences, TTU. Graduation: 2019
- 20 - Gayani Jalathge, M.S. Plant and Soil Sciences, TTU. Graduation: 2019
- 19 - Stephanie Soto, M.S. Animal and Food Sciences, TTU. Graduation: 2019
- 18 - Kimberly Pritchett, Ph.D. Animal and Food Sciences, TTU. Graduation: 2019
- 17 - Whitney Stuart, Ph.D. Animal and food sciences, TTU. Graduation: 2018
- 16 - Zachary Smith, Ph.D. Animal and Food Sciences, TTU. Graduation: 2018
- 15 - Tyler Vogel, M.S. Animal and Food Sciences, TTU. Graduation: 2017
- 14 - Amy Petry, M.S. Animal and Food Sciences, TTU. Graduation: 2017
- 13 - Clay Burson, Ph.D. Animal and Food Sciences, TTU. Graduation: 2016

- 12 - Alex Thompson, Ph.D., Animal and Food Sciences, TTU. Graduation: 2017
- 11 - Lisa Baxter, Ph.D., Plant and Soil Sciences, TTU. Expected graduation: 2017
- 10 - Joel Dustin Sugg, Ph.D., Animal and Food Sciences, TTU. Expected graduation: 2019
- 9 - Tosha Opheim, M.S. Animal and Food Sciences, TTU. Graduation: 2016
- 8 - Lauren Ovinge, M.S., Animal and Food Sciences, TTU. Graduation: 2016
- 7 - Pedro Ricardo Balavenuto Campanili, M.S., Animal and Food Sciences, TTU. Graduation: 2016
- 6 - Abdullah Alrumaih, M.S., Animal and Food Sciences, TTU. Expected graduation: 2017
- 5 - Barbara Juliana Lemos, Ph.D. Animal Science, Federal University of Goias. Ex. graduation: 2016
- 4 - Cameron Nightingale, Ph.D. Animal Science, TTU. Graduation: 2016
- 3 - Tanner Schmidt, M.S. Animal Science, TTU. Graduation: 2014
- 2 - Melissa Catherine Tabke, M.S., Animal and Food Sciences, TTU. Graduation: 2014
- 1 - Elizabeth Domby, Ph.D. Animal and Food Sciences, TTU. Graduation: 2013.

International/National Research Scholars and Residents:

- 22 - Juliana Pessoni, D.V.M. Visiting Research Scholar February/2023 to September of 2023.
- 21 - Katherine J. Palmer, B.S. Animal Science. Texas Tech University. June/2023 to August of 2023.
- 20 - Barbara Rodrigues, Ph.D. Animal Science. Visiting Post-Doctoral Research Scholar. August/2022 to August of 2023.
- 19 - Barbara Rodrigues, Ph.D. Animal Science. Federal University of Minas Gerais (UFMG), Brazil. Research Scholar. August/2021 to February of 2022.
- 18 - Mikala Di Manna, B.S. Animal Science. New Mexico State University (NMSU). June to August of 2021.
- 17 - Igor Gomes Favero, B.S. Animal Science. Federal University of Lavras, Brazil. January to June of 2020.
- 16 - Kaliu Gabriel Scaranto Silva, B.S. Animal Science. Federal University of Parana, Brazil. January to June of 2020.
- 15 - Kaue Tonelli Nardi, B.S., Agronomy. Sao Paulo State University/College of Agriculture "Luiz de Queiroz". Research Scholar. November to May of 2020.
- 14 - Abbigail Hines, B.S., Animal Science, Tarleton State University. April to July of 2019.

- 13 - Evandro Fernando Ferreira Dias, Animal Science, UNESP – Dracena, Brazil. January to April of 2019.
- 12 - Michael Douglas Ferreira Sandes, Veterinarian – Federal University of Minas Gerais, Brazil. August of 2018 to March of 2019.
- 11 - Luis Felipe Soares de Carvalho, Major: Agronomy, UNESP – Jaboticabal, Brazil. August to March of 2019.
- 10 - Iury Augusto de Freitas Cruvinel, Major: Animal Science, UFL – Lavras, Brazil. February to August of 2018.
- 9 - Carly Hoffman, B.S. Animal Science, Texas A&M. September to December of 2017.
- 8 - Beatriz Reis, Major: Animal Science, UNESP – Dracena, Brazil. January to December of 2017.
- 7 - Alan Barboza Melo, M.S. Major: Animal Science, UNESP – Dracena, Brazil. August to November of 2016.
- 6 - Roberta Ferreira Carvalho, Ph.D. Major: Animal Science, Federal University of Minas Gerais. Research Scholar. May to July of 2016.
- 5 - 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.
- 4 - Lauren Ovinge. Alberta, Canada. Major: Animal Science, Canada. August 1st of 2014 to December 31st of 2014.
- 3 - 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.
- 2 - Pedro Ricardo Balavenuto 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.
- 1 - Pedro Ricardo Balavenuto 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.

Undergraduate Research Students:

- 23 - Chloe B. Krause, B.S., Animal Science, TTU. April 2023 to present.
- 22 - Marie Goulais, B.S., Animal Science, TTU. January 2023 to present.
- 21 - DeAnja McLain, B.S., Animal Science, TTU. January 2023 to present.

- 20 - Taylee Velasquez, B.S., Animal Science, TTU. January 2023 to present.
- 19 - Emilee Broussard, B.S., Animal Science, TTU. December 2022 to present.
- 18 - Katherine Wilkes, B.S., Animal Science, TTU. January 2022 to July 2022.
- 17 - Angela Camarillo, B.S., Animal Science, TTU. September 2021 to August of 2022.
- 16 - Magen Holt, B.S., Animal Science, TTU. September 2021 to November of 2021.
- 15 - Ashleigh Wilson, B.S., Animal Science, TTU. September 2021 to December of 2022.
- 14 - Maya Isabella Sanchez, B.S., Animal Science, TTU. August 2021 to November of 2021.
- 13 - Alejandra Lopez, B.S., Animal Science, TTU. March to June of 2021.
- 12 - Brook Prichard, B.S., Animal Science, TTU. January to November of 2021.
- 11 - Sarah Peters, B.S., Animal Science, TTU. January 2021 to July of 2022.
- 10 - Hunter Ganske, B.S., Animal Science, TTU. November to December of 2020.
- 9 - Yasmin F. M. Saes, B.S., Animal Science, TTU. October 2020 to July of 2021.
- 8 - Cameron Rush, B.S., Animal Science, TTU. September/2020 to May of 2021.
- 7 - Juan Vazquez, B.S., Animal Science, TTU. September to December of 2020.
- 6 - Jordan Hinds, B.S., Animal Science, TTU. September of 2018 to May of 2019;
January/2020 to May of 2021.
- 5 - Jeff Lee Manahan, B.S. Animal Science, TTU. September of 2018 to May of 2019.
- 4 - Legrand Bouyi, B.S. in Animal Science – TTU (McNair Scholars Program). September of
2018 to May of 2019.
- 3 - Mikenzie Hanlon, B.S., Animal Science, TTU. August to December of 2016.
- 2 - Amanda Hoffman. B.S., Animal Science, TTU. July to December of 2015.
- 1 - Tyler Davis. B.S., Animal Science, TTU. February to July 2014.

PUBLICATIONS (182)

Refereed Journal Articles

- 24 - Rush, C. J., **J. O. Sarturi**, N. O. Huerta-Leidenz, D. R. Woerner, W. L. Crossland, D. D. Henry, K. S. Silva, and A. M. Lopez 2023. The effects of a nutritional packet (live yeast, vitamins C and B1, and electrolytes) offered to steers in a calf-fed system on growth performance, nutrient digestion, feeding behavior, carcass characteristics, and ruminal variables. *Translational Animal Science*. (Under review)
- 23 - Huerta-Leidenz, N., N. Jerez-Timaure, **J. O. Sarturi**, O. Verde, and A. Rodas-González. 2023. Growth performance, carcass traits, and beef quality of bullocks of three biotypes subjected to reimplantation and supplementation on improved tropical savanna. ISSN-L 1022-1301. *Latin American Archives of Animal Production*. 31 (2): 139-158. DOI: 10.53588/alpa.310202

- 22 - Nardi, K. T., **J. O. Sarturi**, N. Huerta-Leidenz, D. D. Henry, D. R. Woerner, F. M. Ciriaco, A. Sánchez-Escalante, G. R. Torrescano-Urrutia, K. G. S. Silva, and I. G. Favero. 2022. The effects of a Nutritional Packet (live yeast, vitamins C and B1, and electrolytes) offered during the final phase of feedlot steers on growth performance, nutrient digestion, and feeding behavior. *Journal of Animal Science*. 101: 1 - 9. DOI: 10.1093/jas/skac416
- 21 - Huerta-Leidenz, N., N. Timaure, A. R. Gonzalez, **J. O. Sarturi**, M. M Brashears, M. F. Miller, and M. T. Brashears. 2022. The Effects of Castration, Implant Protocol, and Supplementation of Bos indicus-Influenced Beef Cattle under Tropical Savanna Conditions on Growth Performance, Carcass Characteristics, and Meat Quality. *Animals*. 12: 366. DOI: 10.3390/ani12030366
- 20 - Huerta-Leidenz, N., N. Jerez-Timaure, **J. O. Sarturi**, M. M Brashears, M. F. Miller, A. Moya, and S. Godoy. 2021. Effects of sex class, a combined androgen and estrogen implant, and pasture supplementation on growth and carcass performance and meat quality of zebu-type grass-fed cattle. *Animals*. 11: 3441. DOI: 10.3390/ani11123441
- 19 - Sugg, J. D., **J. O. Sarturi**, C. P. West, M. A. Ballou, and D. D. Henry. 2021. Teff grass for continuous grazing in the Southern High Plains by growing beef steers receiving protein supplements. *Translational Animal Science*. 5: 1-11. DOI: 10.1093/tas/txab136
- 18 - Mejias-Turcio, S., A. Osorio, F. Ciriaco, P. Urso, R. Araujo, D. Woerner, B. Johnson, J. Dubeux, **J. O. Sarturi**, N. DiLorenzo, and D. D. Henry. 2021. Effects of Bismuth Subsalicylate and Encapsulated Calcium-Ammonium Nitrate on Feedlot Beef Cattle Production. *Journal of Animal Science*. 99:, No. 10, 1-13. DOI: 10.1093/jas/skab269
- 17 - Sugg, J. D., **J. O. Sarturi**, D. D. Henry, F. Ciriaco, C. West, M. Ballou, and C. Hoffmann. 2021. Ruminal degradation kinetics, intake, digestibility, and feeding behavior of beef steers offered annual or perennial grass-hay with or without supplementation. *Journal of Animal Science*. 99: No. 8, 1-12. DOI: 10.1093/jas/skab168
- 16 - Johnson, B. J., Z. K. Smith, **J. O. Sarturi**, and A. Thompson. 2021. Antimicrobial supplementation alters digestibility and ruminal fermentation in a continuous culture model. *Journal of Applied Animal Research*. 49, 1:23-29. DOI: 10.1080/09712119.2021.1876704
- 15 - Dhakal M., C.P. West, C. Villalobos, **J. O. Sarturi**, S.K. Deb. 2020. Trade-off between nutritive value improvement and crop water use for an alfalfa–grass system. *Crop Science*. 1–13. DOI: 10.1002/csc2.20159. 2021 Outstanding Papers in Forage and Grazing lands Award. The C-6 Division of the Crop Science Society of America.
- 14 - Hoffmann, C. A., **J. O. Sarturi**, D. C. Weindorf, D. D. Henry, H. A. Ramirez-Ramirez, S. Jackson, M. A. Ballou, M. D. Sandes, and L. Bouyi. 2020. The use of portable X-Ray fluorescence spectrometry to measure apparent total tract digestibility in beef cattle and sheep. *Journal of Animal Science*. 98 (3) DOI: 10.1093/jas/skaa048
- 13 - Kondratovich, L. B., **J. O. Sarturi**, M. A. Ballou, S. J. Trojan, C. Hoffmman, and P. R. B. Campanili. 2019. Effects of fibrolytic enzyme on ruminal fermentation characteristics of beef steers fed high-and low-quality growing diets. *Journal of Animal Science*. 97:3089–3102 DOI: 10.1093/jas/skz165
- 12 - Campanili P.R., **J. O. Sarturi**, S. J. Trojan, M. A. Ballou, J. D. Sugg, L. A. Ovinge, and B. J.

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 and Medicine*. 6 (2): 10. DOI: 10.13188/2325-4645.1000036

11 - Ovinge, L. A., **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. *Journal of Animal Science*. 96:684-693. DOI: 10.1093/jas/sky011.

10 - Sugg, J. D., 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. *Professional Animal Scientist*. 33:748–755. DOI:10.15232/pas.2017-01611.

9 - 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. *Journal of Animal Science*. 95. DOI: 10.2527/jas2017.1464.

8 - 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. *Journal of Animal Science*. 95. DOI: 10.2527/jas2017.1510.

7 - 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 Science*. 57:2303-2312. DOI: 10.2135/cropsci2017.05.0289.

6 - 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. *Journal of Animal Science*. 2016 94: 1: 227-239. DOI: 10.2527/jas.2015-9580

5 - **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. *Journal of Animal Science*. 91:4849-4860. DOI: 10.2527/jas.2012-5627

4 - **Sarturi, J. O.**, G. E. Erickson, T. J. Klopfenstein, K. M. Rolfe,* C. D. Buckner,* and M. K. Luebke. 2013. Impact of source of sulfur on ruminal hydrogen sulfide and logic for the ruminal available sulfur for reduction concept. *Journal of Animal Science*. 91:3352-3359. DOI: 10.2527/jas.2012-5626

3 - 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. DOI: 10.1590/S0103-90162009000200003

2 - 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 Journal of Animal Science*. 38:2 256-264. DOI: 10.1590/S1516-35982009000200006

1 - Schogor, A.L.B., 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 Journal of Animal Science*. 38:8 1443-1450. DOI: 10.1590/S1516-35982009000800007

Symposia Proceedings

7 - **Sarturi, J. O.**, Lopez, A. M., Rodrigues, B. M., Silva, K. S., and Rush, C. J. 2022. Economics of Quality Forage in Grower and Finisher Diets - Silage for Beef Cattle 2022 Conference. University of Nebraska Lincoln (UNL). March 17, 2022. , Eastern Nebraska Research & Extension Center, 1071 co road G, Ithaca, NE 68033.

6 - **Sarturi, J. O.**, and Hoffmann, C. 2019. Feedlot cattle adaptation phase: principles and updates. In: Proceedings of the VI International Symposium of Beef Cattle Production - SIMPEC 2019, UFLA Convention Center in Lavras-MG, Brazil.

5 - **Sarturi, J. O.**, Henry D. D., Johnson, B., and West, C. 2019. TTU – Research update: Guided efforts in beef cattle nutrition. In: Proceedings of the Spring Conference – Plains Nutrition Council (PNC, 2019), Marriott Plaza in San Antonio – Texas.

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

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

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

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

Experiment Station Reports, Beef Reports

7 - **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. *Nebraska Beef Cattle Report*. MP 95: 79-81.

6 - 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. *Nebraska Beef Cattle Report*. MP 95: 94-95.

- 5 - 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. *Nebraska Beef Cattle Report*. MP 94: 57-59.
- 4 - **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. *Nebraska Beef Cattle Report*. MP 94:62-64.
- 3 - **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. *Nebraska Beef Cattle Report*. MP 94:65-67.
- 2 - **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. *Nebraska Beef Cattle Report*.MP 94:68-69.
- 1 - **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. *Nebraska Beef Cattle Report*.MP 94:70-71.

Total Abstracts (144)

American Society of Animal Science (ASAS) Abstracts

- 72 - Reis, B.Q., E. M. Bernardes, A. A. Gameiro, B. M. Rodrigues, and **J. O. Sarturi**. 2023. Development of a mathematical model for cost calculation and sustainability analysis of beef cattle grazing systems. *J. Anim. Sci.*, (accepted: *Southern Section, ASAS –Raleigh, North Carolina*)
- 71 - Reis, B. Q., E. M. Bernardes, A. A. Gameiro, K. G. S. Silva, and **J. O. Sarturi**, 2023. Effect of elasticity analysis on beef cattle production costs. *J. Anim. Sci.*, (accepted: *Southern Section, ASAS – Raleigh, North Carolina*)
- 70 - Reis, B. Q., E. M. B. Silva, E. M. Bernardes, and **J. O. Sarturi**. 2023. Economic assessment of beef cattle backgrounding in Brazil at pre (2018/19) and during (2020/21) pandemic. *J. Anim. Sci.*, (accepted: *Southern Section, ASAS –Raleigh, North Carolina*)
- 69 - Rodrigues, B. M., **J. O. Sarturi**, L. S. Lopes, R. C. Alvarenga, D. P. D. Lanna, and F. A. Souza. 2023. Fatty acid profile of beef from feedlot young bulls of two genetic groups. *J. Anim. Sci.*, (accepted: *Southern Section, ASAS –Raleigh, North Carolina*)
- 68 - Rodrigues, B. M., **J. O. Sarturi**, L. S. Lopes, R. C. Alvarenga, A. Berndt, F. A. Souza, B. Q. Reis, and K. S. Silva. 2023. Growth performance, carcass characteristics, and methane emissions of feedlot young bulls of two genetic groups. *J. Anim. Sci.*, (accepted: *Southern Section, ASAS –Raleigh, North Carolina*)
- 67 - Lopez, A. M., **J. O. Sarturi**, D. D. Henry, B. J. Johnson, K. S. Silva, K. T. Nardi, C. J. Rush, B. M. Rodrigues, and S. D. Peters. 2022. Feeding behavior of beef feedlot yearling steers offered finishing diets with direct fed microbial mixtures. *J. Anim. Sci.*, (accepted: *ASAS Oklahoma City, Oklahoma*)

- 66 - Lopez, A. M., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, B. J. Johnson, K. S. Silva, K. T. Nardi, C. J. Rush, B. M. Rodrigues, S. D. Peters, and M. R. DiManna. 2022. Nutrient digestibility of feedlot beef yearling steers offered finishing diets with direct fed microbial mixtures. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 65 - Lopez, A. M., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, B. J. Johnson, D. R. Woerner, K. S. Silva, K. T. Nardi, C. J. Rush, B. M. Rodrigues, S. D. Peters, M. R. DiManna, A. M. Osorio-Doblado, K. D. Coello, and A. A. R. Quijada. 2022. Growth performance and carcass characteristics of feedlot beef yearling steers offered finishing diets with direct fed microbial mixtures. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 64 - Wilkes, K. D., **J. O. Sarturi**, D. D. Henry, B. J. Johnson, A. M. Lopez, K. S. Silva, C. J. Rush, B. M. Rodrigues, S. D. Peters, and A. Camarillo. 2022. Ruminal tissue morphology of beef yearling steers offered finishing diets with direct fed microbial mixtures. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 63 - Rush, C. J., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, N. O. Huerta-Leidenz, W. L. Crossland, A. M. Lopez, K. S. Silva, K. T. Nardi, S. D. Peters, M. R. DiManna, A. M. Osorio-Doblado, K. D. Coello, A. A. R. Quijada, J. K. Hinds, and Y. F. M. Saes. 2022. Feeding Behavior of beef steers consuming finishing diets with an added nutritional packet in a calf-fed system. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 62 - Rush, C. J., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, N. O. Huerta-Leidenz, W. L. Crossland, A. M. Lopez, K. S. Silva, K. T. Nardi, S. D. Peters, M. R. DiManna, A. M. Osorio-Doblado, K. D. Coello, A. A. R. Quijada, J. K. Hinds, and Y. F. M. Saes. 2022. Nutrient digestibility of beef steers consuming finishing diets with an added nutritional packet in a calf-fed system. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 61 - Rush, C. J., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, D. R. Woerner, N. O. Huerta-Leidenz, W. L. Crossland, A. M. Lopez, K. S. Silva, K. T. Nardi, S. D. Peters, M. R. DiManna, A. M. Osorio-Doblado, K. D. Coello, A. A. R. Quijada, J. K. Hinds, and Y. F. M. Saes. 2022. Growth performance and carcass characteristics of beef steers consuming finishing diets with an added nutritional packet in a calf-fed system. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 60 - Silva, K. S., **J. O. Sarturi**, D. D. Henry, B. J. Johnson, A. M. Lopez, B. M. Rodrigues, K. T. Nardi, C. J. Rush, S. D. Peters, A. Camarillo, and A. Wilson. 2022. Effects of direct fed microbial mixtures on beef cattle ruminal fermentation characteristics, intake, and nutrient digestibility. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 59 - Nardi, K. T., **J. O. Sarturi**, E. D. M. Mendes, W. Crossland, L. O. Tedeschi, D. D. Henry, and K. S. Silva. 2022. Feeding behavior of feedlot beef steers consuming finishing diets with an added nutritional packet. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)
- 58 - Peters, D. S., **J. O. Sarturi**, C. J. Rush, L. D. Felizari, D. D. Henry, N. O. Huerta-Leidenz, D. R. Woerner, B. M. Rodrigues, A. M. Lopez, K. S. Silva, K. T. Nardi, and K. D. Wilkes. 2022. Ruminal papillae morphology and volatile fatty acid profile of beef steers consuming finishing diets with an added nutritional packet in a calf-fed system. *J. Anim. Sci.*, (accepted: ASAS Oklahoma City, Oklahoma)

- 57 - Nardi, K. T., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, N. O. Huerta-Leidenz, A. M. Osorio, I. G. Fávero, K. S. Silva and C. J. Rush. 2021. Growth performance and carcass characteristics of beef steers consuming finishing diets with an added nutritional packet. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
- 56 - Nardi, K. T., **J. O. Sarturi**, D. D. Henry, F. M. Ciriaco, N. O. Huerta-Leidenz, A. M. Osorio, I. G. Fávero, K. S. Silva, and C. J. Rush. 2021. Nutrient digestibility of beef steers consuming finishing diets with an added nutritional packet. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
- 55 - Kaliu S. Silva, **J. O. Sarturi**, D. D. Henry, K. Karges, J. K. Hinds, K. T. Nardi, I. G. Fávero, C. J. Rush, and Y. F. M. Saes. 2021. Effects of live yeast and ruminal environment on beef cattle diet digestibility: an in vitro approach. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
- 54 - Fávero, I. G., **J. O. Sarturi**, Nardi, K. T., D. D. Henry, K. S. Silva, F. M. Ciriaco, N. O. Huerta-Leidenz, A. M. Osorio and C. J. Rush. 2021. Feeding behavior of beef steers consuming finishing diets with added nutritional packet. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
- 53 - Coello, K. D., A. M. Osorio-Doblado, K. T. Nardi, I. F. Gomes, K. S. Silva, A. A. Raudales-Quijada, F. M. Ciriaco, **J. O. Sarturi**, and D. D. Henry. 2021. Effects of a nutritional-packet composed of live yeast, vitamins, and electrolytes on the feeding behavior of intensively managed beef steers. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
- 52 - Kenneth S. Madrid, A. M. Osorio-Doblado, F. M. Ciriaco, A. Arauz, K. S. Silva, K. T. Nardi, I. G. Fávero, A. Raudales, K. D. Coello, **J. O. Sarturi**, and D. D. Henry. 2021. Effects of bismuth subsalicylate on ruminal fermentation of cattle consuming a feedlot diet varying in sulfur content. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
- 51 - K. Madrid, A. M. Osorio-Doblado, , F. M. Ciriaco, N. DiLorenzo, **J. O. Sarturi**, G. B. Penner, and D. D. Henry. 2021. Effects of bismuth subsalicylate and sulfate concentrations on in vitro ruminal fermentation using a warm-season perennial hay substrate. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
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- 49 - Osorio-Doblado, A. M., K. T. Nardi, I. F. Fávero, K. S. Silva, K. D. Coello, A. A. Raudales-Quijada, F. M. Ciriaco, **J. O. Sarturi**, and D. D. Henry. 2021. Methane Emissions and apparent total tract digestibility of feedlot beef steers under intensive management with or without an added nutritional packet. *J. Anim. Sci.*, (accepted: ASAS Louisville, Kentucky)
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32 - Reis, B. Q., **J. O. Sarturi**, K. T. Nardi, C. J. Rush, D. R. Woerner, K. S. Silva, and B. M. Rodrigues. 2023. Effects of a nutritional packet on beef cattle growth performance, carcass traits, nutrient digestibility, methane emission, and ruminal characteristics of feedlot steers. Texas & Southern Cattle Raisers Association – Fort Worth, TX

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2 - Nussio, L.G., 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.

1 - Amaral, R. C., 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.

International Events related to Animal Science Abstracts

19 - 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

18 - 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

17 - Opheim, T. L., **J. O. Sarturi**, M. F. Miller, A. R. English, Z. K. Smith, and M. M. Brashears. 2017. Evaluation of a novel direct-fed microbial to replace sub-therapeutic antibiotics on gain performance and carcass traits in beef feedlot steers. 63rd International Congress of Meat Science and Technology - ICoMST – Cork, Ireland

16 - Opheim, T. L., C. Carpio, **J. O. Sarturi**, M. F. Miller, M. E. Buesso, 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

15 - Schogor, A.L.B., 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

14 - Queiroz, B.C., 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

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

12 - **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.* 45th Annual Meeting, Lavras-MG/Brazil

11 - **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

10 - Maldonado, J.G.M., 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

9 - Tonato, F.T., 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

8 - Guarda, V.A., 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

7 - **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

6 - Leite, L.C., 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

5 - Ferreira, L.S., 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

4 - Zopollatto, M., L.G. Nussio, M.C. Junqueira, **Sarturi, J. O.**, J.L. Ribeiro, L.J. Mari, 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

3 - Santos, M.C., L.G. Nussio, G.B. Mourão, L.J. Mari, O.C.M. Queiroz, J.L. Ribeiro, P. Schmidt, M. Zopollato, 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

2 - Schmidt, P., 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.** (2006). Performance of beef cattle heifers fed sugar cane silage rations of two varieties, added with CaO. Joao Pessoa PB/Brazil

1 - **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

20 - McLain, D. A., K. S. Silva, **J. O. Sarturi**, B. J. Johnson, B. M. Rodrigues, and B. Q. Reis. 2023. A close look at bacterial direct fed microbial mixtures effects on beef cattle ruminal effective degradability. TTU Undergraduate Research Conference – Lubbock, TX – USA

19 - Goulais, M. E., K. S. Silva, B. M. Rodrigues, B. Q. Reis, and **J. O. Sarturi**. 2023. Evaluating the effects of beef cattle dietary type or the presence of dietary live yeast (*Saccharomyces cerevisiae*) on the nutrient digestibility of beef cattle. TTU Undergraduate Research Conference – Lubbock, TX – USA

18 - Broussard, E. A., K. S. Silva, B. M. Rodrigues, B. Q. Reis, and **J. O. Sarturi**. 2023. Using feeding behavior assessment to evaluate the effects of beef cattle dietary type or the presence of dietary live yeast (*Saccharomyces cerevisiae*). TTU Undergraduate Research Conference – Lubbock, TX – USA

17 - Peters, S., **J. O. Sarturi**, C. J. Rush, K. G. S. Silva I. G. Favero, D. D. Henry, N. Huerta, W. Crossland, F. M. Ciriaco, J. K. Hinds, and Y. F. M. Saes. 2022. Effects of live-yeast/vitamin-mineral complex on nutrient digestion of newly received feedlot cattle. TTU Undergraduate Research Conference – Lubbock, TX – USA

16 - Hinds, J. K., **J. O. Sarturi**, K. G. S. Silva, I. G. Favero, C. J. Rush, Y. F. M. Saes. 2021. Using direct fed microbials (*Saccharomyces cerevisiae*) to increase cattle feed utilization when undergoing distinct feeding management: an in vitro approach. TTU Undergraduate Research Conference – Lubbock, TX – USA

15 - Saes, Y. F. M., **J. O. Sarturi** C. J. Rush, and J. K. Hinds. 2021. Assessment of direct fed microbial combinations on ruminal microbial efficiency modulation using a continuous culture system. TTU Undergraduate Research Conference – Lubbock, TX – USA

14 - Rush, C. J., **J. O. Sarturi**, K. G. S. Silva, I. G. Favero, D. D. Henry, F. M. Ciriaco, J. K. Hinds, and Y. F. M. Saes. 2021. Growth performance of weaned calves receiving direct-fed microbial plus vitamin c during the feedlot receiving phase of a calf-fed system. TTU Undergraduate Research Conference – Lubbock, TX – USA

- 13 - Sandes, M. D. F., **J. O. Sarturi**, C. A. Hoffmann, D. C. Weindorf, D. D. Henry, H. A. Ramirez-Ramirez¹, E. F. F. Dias, L. Bouyi, H. J. L. Manahan, J. Hinds. 2019. Detection of dietary external markers using portable X-ray fluorescence spectrometry for estimation of digestibility in beef cattle. TTU Undergraduate Research Conference – Lubbock, TX – USA
- 12 - 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
- 11 - 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
- 10 - 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
- 9 - 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
- 8 - 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
- 7 - Campanili, P.R.B., **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
- 6 - Campanili, P.R.B., **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
- 5 - Gomez, J. B., 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
- 4 - Campanili, P.R.B., **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
- 3 - Gallo, M.P.C., 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
- 2 - **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
- 1 - **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

- 36 – Krause, C. B., and **J. O. Sarturi**. “In vitro solventogenesis modulated by ruminal inoculum type and cornstarch substrate”. Texas Tech University Center for Transformative Undergraduate Experiences (TrUE - Program) – Undergraduate Research. \$1,000. 2023.
- 35 - McLain, D., and **J. O. Sarturi**. “A close look at bacterial direct fed microbial mixtures effects on beef cattle ruminal effective degradability”. Texas Tech University Center for Transformative Undergraduate Experiences (TrUE - Program) – Undergraduate Research. \$1,000. 2023.
- 34 - Woerner, D. R., **J. O. Sarturi**, W. Crossland, R. Rathmann, K. Hales-Paxton, J. Legako, and C. Bratcher. “Modeling for genomic, blood, and microbiological markers for liver abscesses in fed beef cattle”. Foundation for Food & Agriculture Research (FFAR, ICASA). \$600,001. 2023 to 2025.
- 33 - Crossland, W., **J. O. Sarturi**, and A. Norris. “Summer Stocker Supplementation”. National Cottonseed Products Association (NCPA). \$125,000. 2022 to 2027.
- 32 - Crossland, W., **J. O. Sarturi**, and A. Norris. “Summer Stocker Supplementation”. Cotton Incorporated. \$25,000. 2022 to 2023.
- 31 - Peters, S., and **J. O. Sarturi**. Assessment of Ruminal Papillae Morphology of Beef Cattle Offered a Nutritional Packet Containing Vitamins C and B1, Live-yeast, and Electrolytes in a Calf-fed System. “*Davis College of Agricultural Sciences and Natural Resources - 2022 Undergraduate Research Grants.*” Texas Tech University, Davis CASNR Dean’s Office. \$2,000. 2022 to 2022.
- 30 - **Sarturi, J. O.**, B. Johnson. “Effects of *Saccharomyces cerevisiae* on beef cattle grower and finisher diets: a detailed assessment of ruminal degradation kinetics, fermentation profile, and apparent digestibility.” Lallemand Animal Nutrition North America. \$82,818.80. 2022 to 2024.
- 29 - Peters, S., and **J. O. Sarturi**. “Effects of a strategic supplementation based of live microorganisms and vitamins on feedlot newly received calves nutrient digestion.” Texas Tech University Center for Transformative Undergraduate Experiences (TrUE - Program) – Undergraduate Research. \$1,000. 2021 to 2022.

- 28 - Rush, C. J., and **J. O. Sarturi**. Houston Livestock Show and Rodeo (HLSR) Graduate Assistantship Award for FY 21-22, Camron J. Rush, MS student. \$17,299.50. 2021 to 2022.
- 27 - Saes, Y. F. M., and **J. O. Sarturi**. Assessment of Direct Fed Microbial Combination on Ruminal Microbial Efficiency Modulation Using a Continuous Culture System. "*College of Agricultural Sciences and Natural Resources - 2021 Undergraduate Research Grants*." Texas Tech University, CASNR Dean's Office. \$2,000. 2021 to 2021.
- 26 - Rush, C. J., and **J. O. Sarturi**. "Growth performance of weaned calves receiving direct-fed microbial plus vitamin C during the feedlot receiving phase of a calf-fed system." Texas Tech University Center for Transformative Undergraduate Experiences (TrUE - Program) – Undergraduate Research. \$1,000. 2021 to 2021.
- 25 - Hinds, J., and **J. O. Sarturi**. "Using direct fed microbials (*Saccharomyces cerevisiae*) to increase cattle feed utilization when undergoing distinct feeding management." Texas Tech University Center for Transformative Undergraduate Experiences (TrUE - Program) – Undergraduate Research. \$1,000. 2021 to 2021.
- 24 - Saes, Y. F. M., and **J. O. Sarturi**. "Assessment of *Bacillus* Strains on Ruminal Microbial Efficiency Modulation Using a Continuous Culture System." Texas Tech University Center for Transformative Undergraduate Experiences (TrUE - Program) – Undergraduate Research. \$1,000. 2021 to 2021.
- 23 - **Sarturi, J. O.**, B. Johnson, and D. Henry. "Effects of direct fed microbials (selected *Bacillus* strains) on beef cattle ruminal fermentation and growth performance." Chr. Hansen Holding A/S. \$222,716. 2020 to 2024.
- 22 - **Sarturi, J. O.**, D. Henry, N. Huerta, and W. Crossland. "Effects of Quality Complex Additive on growth performance, carcass characteristics and nutrient digestibility of beef cattle calf-fed system." Vigaly, LLC. \$83,928. 2020 to 2022.
- 21 - **Sarturi, J. O.**, and Johnson, B. "Effects of direct fed microbials (selected *Bacillus* strains) on *in vitro* ruminal fermentation characteristics, gas production kinetics, nutrient disappearance, and microbial efficiency." Chr. Hansen Holding A/S. \$58,640. 2020 to 2022.
- 20 - Henry, D., and **J. O. Sarturi**, and N. Huerta "Effects of Quality Complex Additive on in vivo enteric methane production of finishing beef cattle." Vigaly, LLC. \$4,753. 2019 to 2021.
- 19 - **Sarturi, J. O.**, D. Henry, and N. Huerta. "Effects of Quality Complex Additive on growth performance, carcass characteristics and nutrient digestibility of finishing beef cattle." Vigaly, LLC. \$59,828. 2019 to 2021.
- 18 - Hoffmann, C., and **J. O. Sarturi** Houston Livestock Show and Rodeo (HLSR) Graduate Assistantship Award for FY 19, Carly Hoffmann, MS student. \$6,600. 2019.
- 17 - 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.
- 16 - **Sarturi, J. O.** College of Agricultural Sciences and Natural Resources – Texas Tech University. Mini-Teaching Grant. \$ 1,325. 2018.

- 15 - 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.
- 14 - **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.
- 13 - 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.
- 12 - 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.
- 11 - 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.
- 10 - **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.
- 9 - **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.
- 8 - **Sarturi, J.O.**, Trojan, S. "Improving Sorghum-Sudan silage grown under limited water supply." Ogallala Aquifer Project. \$14,230. 11/2014 to 12/2015.
- 7 - 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.
- 6 - 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.
- 5 - 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.
- 4 - 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.
- 3 - **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.
- 2 - 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.

- 1 - **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.

FOUNDATION DONATIONS

Funds received by donations from individuals/corporate on behalf of the: “**Beef Cattle Nutrition and Metabolism Research Fund**”. My sincere and deepest [thank you](#) for those who have had believed in this call!

- 18 - Christy Bratcher, Texas, USA. US\$ 50. 04/23/2023.
- 17 - Michael Bratcher, Texas, USA. US\$ 50. 04/23/2023.
- 16 - Chr. Hansen Holdings, Denmark. US\$ 1,730. 04/23/2023.
- 15 - J. D. Garza, Texas, USA. US\$ 2,152. 03/24/2023.
- 14 - Private gift, US\$ 100. 03/15/2023.
- 13 - Jose Alejandro Vizcarra Ibarra, Mexico. US\$ 1,500. 03/03/2022.
- 12 - Jose Galindo, Mexico. US\$ 1,500. 02/25/2022.
- 11 - Javier Andres Aracena, Chile. US\$ 200. 02/04/2022.
- 10 - Steven Ebeling – Ebeling Farms, Texas, USA. US\$ 4,888. 01/24/2022.
- 9 - Daniel Sais - Sais Farms, New Mexico, USA. US\$ 3,000. 08/13/2021.
- 8 - CMC Channel (Centro Multiplicador de Capacitação) and CMC Flix, Brazil. US\$ 1,500. 07/24/2021.
- 7 - CMC Channel (Centro Multiplicador de Capacitação) and CMC Flix, Brazil. US\$ 1,500. 12/21/2020.
- 6 - Five Rivers Cattle Feeding, USA. US\$ 1,587. 07/23/2019.
- 5 - PNC – Plains Nutrition Council, USA. US\$ 750. 06/21/2019.
- 4 - CONFINAR, Campo Grande – Mato Grosso do Sul/Brazil. US\$ 1,000. 04/23/2019.
- 3 - AMTS LLC – Beef Nutritionist (Agricultural Modeling and Training Systems), USA. US\$ 750. 09/13/2018.
- 2 - PNC – Plains Nutrition Council, USA. US\$ 750. 06/21/2018.
- 1 - AB Vista – Ruminant Nutrition, UK. US\$ 500. 06/01/2018.