

Wellison J. S. Diniz, Ph.D.

Assistant Professor – Food Animal Genomics

Auburn University

Department of Animal Sciences
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Auburn, AL 36849

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 aub.ie/ANSC

EDUCATION

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| | Federal University of São Carlos, SP, Brazil |
| | Ph.D. in Science with an emphasis in Genetics and Evolution |
| 2015-10 – 2019-10 | <i>Dissertation Title:</i> Identification of co-expression gene networks and regulatory mechanisms related to mineral composition and meat quality in bovine. Advisor: Luciana C. A. Regitano. https://aub.ie/PhD |
| | Department of Mathematics and Computer Science Technical University of Denmark - DTU. |
| 2018-03 – 2019-02 | Visiting Ph.D. Scholar
<i>Project title:</i> Integrative genetic and regulatory network analysis to detect genes related to muscle iron content in Nelore cattle. Advisor: Haja N. Kadarmindeen |
| | Federal University of São Carlos, SP, Brazil |
| | M.Sc. in Evolutionary Genetics and Molecular Biology |
| 2013-09 – 2015-08 | <i>Dissertation Title:</i> Differential gene expression analysis related to the muscle iron content in Nelore cattle. Advisor: Luciana C. A. Regitano |
| | Federal Rural University of Pernambuco, Garanhuns, Brazil |
| 2008-03 – 2012-06 | Bachelor's in animal sciences (husbandry) |
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RESEARCH & PROFESSIONAL EXPERIENCE

Auburn University, Department of Animal Sciences

Address: Upchurch Hall, Auburn, AL 36849, USA

Position: Assistant Professor – Food Animal Genomics

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| 08-2022 – Present | <ul style="list-style-type: none">▪ To develop and lead a nationally recognized research program in food animal genomics addressing relevant issues in this area of science;▪ To conduct independent research in genomics and develop collaborations with peers;▪ To secure extramural funds to support your research program;▪ To publish research findings in peer-reviewed scientific journals;▪ To work with a wide range of stakeholders in the state and beyond;▪ To collaborate effectively with departmental faculty and with colleagues in other disciplines both at Auburn University and at other universities;▪ To teach courses at the undergraduate and/or graduate level, including ANSC 3500 'Animal Breeding' fall and spring semesters;▪ To train graduate students at both the M.S. and Ph.D. level as their major advisor and serve on graduate committees of other students;▪ To mentor undergraduate students in areas of food animal genomics. |
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Auburn University, Department of Animal Sciences

Address: Upchurch Hall, Auburn, AL 36849, USA

09-2021 – 07-2022	<i>Position:</i> Visiting Professor – Food Animal Genomics
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| | <ul style="list-style-type: none">▪ To develop and lead a nationally recognized research program in food animal genomics addressing relevant issues in this area of science;▪ To conduct independent research in genomics and develop collaborations with peers; |
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- To secure extramural funds to support your research program;
- To publish research findings in peer-reviewed scientific journals;
- To work with a wide range of stakeholders in the state and beyond;
- To collaborate effectively with departmental faculty and with colleagues in other disciplines both at Auburn University and at other universities;
- To teach courses at the undergraduate and/or graduate level, including ANSC 3500 'Animal Breeding' fall and spring semesters;
- To train graduate students at both the M.S. and Ph.D. level as their major advisor and serve on graduate committees of other students;
- To mentor undergraduate students in areas of food animal genomics.

North Dakota State University, Department of Animal Sciences

Address: 1300 Albrecht Blvd, Fargo, ND 58105, USA

***Position:* Postdoctoral Research Fellow**

2020-01 – 08-2021

- Developed and applied bioinformatics approaches to analyze the effects of pre- and perinatal maternal nutrition on fetal developmental programming in beef cattle;
- Developed and implemented multi-tissue regulatory network approaches to identify the mechanisms modulating cerebrum, liver, and muscle fetal programming;
- Analyzed cerebrum, liver, muscle, placenta, and sperm transcriptomic data;
- Examined the effects of one-carbon metabolites supplementation on methylation (RRBS) profile of cultured cells;
- Interpreted and translated functional analyses results retrieved from genomic approaches;
- Implemented data management and storage of genomics and epigenomics data on NDSU Thunder High-Performance Computer;
- Collaborated in sample phenotyping, collection, and nucleic acid isolation;
- Led research grant and scientific writing and publication of results.

Brazilian Agricultural Corporation, Department of Research & Development

Address: Rodovia Washington Luiz, Km 234 s/nº, Fazenda Canchim, Caixa Postal: 339, CEP: 13560-970 - São Carlos – SP, BR

***Position:* Ph.D. Graduate Research Assistant**

2015-09 – 2019-10

- Analyzed and interpreted genome-wide SNP array, RNA-seq, and RRBS methylation data applied to feed efficiency and meat quality in beef cattle;
- Applied PCR and qPCR analyses to understand the genetic basis of feed efficiency, mineral content, and meat quality traits in cattle;
- Identified different epigenetic markers between feed efficient and inefficient animals by analyzing liver DNA methylation;
- Characterized mRNA and miRNA genome-wide profile by sampling liver and muscle tissues;
- Trained one master student in transcriptomic data analyses;
- Trained three undergraduate students in molecular biology techniques and laboratory activities;
- Led and collaborated in grant and manuscript writing.

Technical University of Denmark – DTU, Department of Mathematics and Computer Science

Address: Richard Petersens Plads, 324, DK-2800 Kgs. Lyngby, DK

***Position:* Visiting Ph.D. Researcher**

2018-03 – 2019-02

- Developed and implemented systems biology and data analysis approaches to identify miRNA-mRNA regulatory networks in beef cattle;
- Screened public databases to identify miRNA gene targets regulating mineral homeostasis in muscle;
- Collaborated in metabolomics data analysis and network construction associated to feed efficiency in pigs.
- Led scientific writing and publication of results.

AWARDS & RECOGNITION

Year	Award	Awarder	Amount
2024	Auburn College of Agriculture Team Award. <i>Nominee</i>	College of Agriculture	-
2024	Outstanding Early Career Animal Scientist Award – Education. <i>Nominee</i>	American Society of Animal Sciences – Southern Section	-
2022	Summer Course (Re)Design	Biggio Center, Auburn University	\$1,000
2021	Young & Emerging Speaker	ISSeBM - USDA-NIFA-AFRI	\$1,000
2014	Best Poster in the X Genetics Winter School	São Paulo State University, BR	-
2013	Valedictorian Animal Sciences - UAG	Federal Rural University of Pernambuco	-
2013	Honorable mention for the best poster – Improvement genetics and reproduction	Northeastern Conference in Animal Production	-

AWARD TO STUDENTS

Year	Award	Awarder	Awardee	Amount
2024	Graduate Fellowship	Alabama Beef Cattle Improvement Foundation	T. Cody Brown (MSc.)	\$1,500.00
2024	Graduate Fellowship	Alabama Beef Cattle Improvement Foundation	Audrey Craner (MSc.)	\$1,500.00
2024	24-25 Undergraduate Research Fellowship	Auburn University	Madalynn Welsh	\$4,900.00
2024	Outstanding Graduate Student M.Sc.	Auburn University	Nicholas Kertz (MSc.)	-
2024	Animal Science Graduate Student Scholarship	Alabama Cattlemen's Foundation,	Nicholas Kertz (MSc.)	\$1,000
2023	Student Conference Travel Award	Agricultural genomes to phenomes (AG2PI)	Audrey Craner (MSc.)	\$1,500
2023	Student Conference Travel Award	Agricultural genomes to phenomes (AG2PI)	T. Cody Brown (MSc.)	\$1,500
2023	Student Conference Travel Award	Agricultural genomes to phenomes (AG2PI)	Nicholas Kertz (MSc.)	\$1,500
2023	Outstanding Graduate Student M.Sc.	Auburn University	Rachel Hollingsworth (MSc.)	-
2023	2023-2024 Targeting Excellence Scholarship Award	Targeting Excellence	Nicholas Kertz (MSc.)	\$3,000
2023	ISAG travel bursary	International Society of Animal Genetics	Nicholas Kertz (MSc.)	\$2,500
2023	Graduate Fellowship	Alabama Beef Cattle Improvement Foundation	Nicholas Kertz (MSc.)	\$1,500
2022	Walton-Berry Graduate Student Support	American Simmental Association	Nicholas Kertz (MSc.)	\$5,000

GRADUATE STUDENTS

Status/ Role	Completed		Ongoing	
	M.Sc.	Ph.D.	M.Sc.	Ph.D.
# Advised as major advisor or co-chair	1	1	2	1
# Advised as committee member	5	1	1	1
Total	6	2	3	2

TEACHING | *Instructor of records*

Course	Title	Semester	Credit hours	Enrollment
ANSC3500	Animal Breeding	Spring 2025	3	65
ANSC7970	Special Topics	2024	2	14
ANSC3500	Animal Breeding	2024	3	113
ANSC3500	Animal Breeding	2023	3	98
ANSC7970	Special Topics	2023	2	4
ANSC3500	Animal Breeding	2022	3	93

Guest Lectures

Level	Title	Host	Course	Date
Undergraduate	Heterosis: Where traits come from	Dr. Rodning	ANSC 4010 Beef production	11/31/2024
Undergraduate	Crossbreeding Systems	Dr. Rodning	ANSC 4010 Beef production	11/29/2024
Graduate	Using Crossbreeding, EPDs & genomic enhanced EPDs in selection management	Dr. Mulvaney	ANSC 7010 Advanced Beef Systems	09/05/24
Graduate	Exploiting epigenetics & fetal programming in cattle production	Dr. Mulvaney	ANSC 7010 Advanced Beef Systems	09/03/24
Undergraduate	Heterosis: Where traits come from	Dr. Young	ANSC 4010 Beef production	11/02/2023
Undergraduate	Crossbreeding Systems	Dr. Young	ANSC 4010 Beef production	10/31/2023
Graduate	Writing like a scientist and Scientific writing powered by AI	Dr. Mulvaney	ANSC 7970 Beef Sustainability	Fall 2023
Undergraduate	Using EPDs & genomic enhanced EPDs in selection management	Dr. Mulvaney	ANSC 4000 Modern Livestock Systems	03/14-16/23
Undergraduate	Using EPDs & genomic enhanced EPDs in selection management	Dr. Mulvaney	ANSC 4000 Modern Livestock Systems	03/14/22
Undergraduate	Livestock Genomics	Dr. C. Heaton	ANSC 1100 Orientation to animal sciences	01/27/22
Graduate	Exploiting epigenetics & fetal programming in cattle production	Dr. Mulvaney	ANSC 7010 Advanced Beef Systems	09/08/22
Undergraduate	Crossbreeding Systems	Dr. W. Greene	ANSC 4010 Beef production	11/15/22
Undergraduate	Heterosis: Where traits come from	Dr. W. Greene	ANSC 4010 Beef production	11/17/22
Undergraduate	Crossbreeding & Heterosis	Dr. Staiger	ANSC 3500 Animal Breeding	Fall 2021

RESEARCH FUNDING

\$Amount	Supporting Agency Project Title Project Number Dates
Current	
\$300,000	<i>Agriculture and Food Research Initiative (AFRI) Competitive Grants Program. Mid-gestation protein/energy supplementation to beef heifers and programming of metabolism, growth, and sexual development in male offspring.</i> Carl Dahlen - PI, Wellison Diniz – CoPI – 2024-2026.
\$50,000	<i>AgRSEED – AU. Effects of maternal nutrition and one-carbon metabolite supplementation in fetal muscle programming.</i> Diniz - PI. 2023-2025.
Completed	
\$10,000	<i>Alabama Cattlemen's Association. W. Diniz</i> - PI, P. Banerjee (CoPI), K. Mullenix (CoPI). Identification of metabolomic markers for early prediction of bovine respiratory disease. 2022-2023.
\$10,000	<i>Alabama Cattlemen's Association. P. Banerjee (PI), P. Dyce (CoPI), W. Diniz (CoPI), S. Rodning (CoPI). Identification of miRNA markers for early prediction of reproductive potential in beef heifers.</i> Co-PI. 2022-2023.
\$300,000	<i>Agriculture and Food Research Initiative (AFRI) Competitive Grants Program. 2022-67016-36195. Transgenerational Impacts of maternal Nutrition on Fetal Epigenetic Programming.</i> Alison Ward - PI, Wellison Diniz – CoPI, Carl Dahlen – CoPI. 2022-2023.
\$15,000	<i>Agricultural Research Foundation. ARF#22070A. Does selenium supplementation of beef cattle during different trimesters of pregnancy differentially affect newborn calf muscle by changing DNA methylation?</i> Jean A. Hall PI, Gerd Bobe – Co-PI, Wellison Diniz – CoPI. 2022-2024.
\$14,967	<i>State Board of Agriculture Research and Education – North Dakota. "Effects of pre-breeding maternal micronutrient supplementation on epigenome regulation and developmental programming in beef cattle."</i> Alison Ward - PI, Carl Dahlen – CoPI, Wellison Diniz - CoPI, 2021-2023.

INVITED TALKS & PRESENTATIONS

Date	Title, Authors & Event
July 3-5 th 2024	<i>Climate Change & Animal Breeding: Opportunities for Using Genomics.</i> Diniz, W. J. S International Meeting of Animal Science. Garanhuns, PE, Brazil.
January 21-24 th 2023	<i>Supranutritional selenium supplementation during different trimesters of pregnancy in beef cows affects gene expression of monocyte cells.</i> Diniz, W. J. S. , G. Bobe, J. J. Klopfenstein, T. Zane Davis, A. K. Ward, and J. A. Hall. ASAS Southern Section, Raleigh, NC, USA.
June 26-30 th 2022	<i>From conception to birth: The role of minerals on beef cattle fetal programming.</i> Diniz, W. J. S. , A. C. B. Menezes, K. L. McCarthy, J. Hall, J. S. Caton, C. R. Dahlen, and A. K. Ward. ASAS-CSA Annual meeting - Triennial Growth Symposium . OK, Oklahoma. Guest Speaker.
February 16-20 th 2022	<i>Maternal selenium supplementation during different trimesters of pregnancy: Effects on offspring muscle transcriptome.</i> Diniz, W.J.S. , G. Bobe, J. Klopfeitein, Y. Gultekin, T. Z. Davis, A. K. Ward, and J. A. Hall. 12 th International Symposium on Selenium in Biology and Medicine. HI, Hawaii. Young & Emerging award – Guest Speaker.
March 8-10 th 2021	<i>Multi-omics approaches to improve animal production.</i> ASAS Midwestern. Genetics, Genomics and Bioinformatics Symposium. Virtual meeting. Diniz, W. J. S. , and A. K. Ward. Guest Speaker.

PUBLICATIONS

ACADEMIC QUANTITATIVE INDICATOR SUMMARY

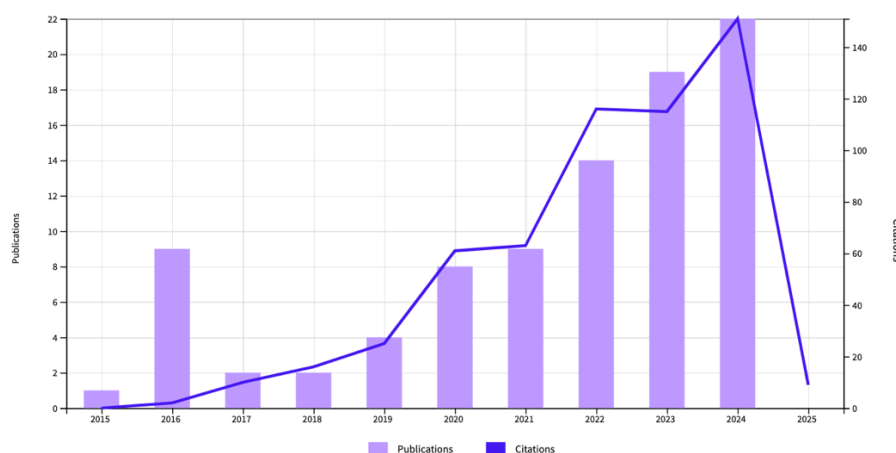
aub.ie/gscholar

*h-index* = 17 | *i-10 index* = 31 | Number of citations = 1003

Summary	Pre-Faculty	2021-Current	Total
Book Chapters	0	2	2
Peer Reviewed Journal Articles	26	42	68
First Author	11	10	21
Last or Corresponding Author	0	14	14
Student is First author	0	6	6
Abstracts & Proceedings	55	51	106
Outreach & Extension publications	0	11	11

TIMES CITED AND PUBLICATIONS OVER TIME

aub.ie/MyResearcherID



Source: Web of Science Researcher Profile.

Books/Book Chapters (n = 2)

2024

2. Diniz, W. J. S., L. P. Reynolds, A. K. Ward, J. S. Caton, C. R. Dahlen, K. L. MacCarthy, A. C. B. Menezes, R. A. Cushman, and M. S. Crouse. 2024. Epigenetics and nutrition: Molecular mechanisms and tissue adaptation in developmental programming. In: L. M. Vaschetto, editor, Molecular mechanisms in nutritional epigenetics. Epigenetics and Human Health, vol 12. Springer. ISBN: 978-3-031-54214-5, DOI: [10.1007/978-3-031-54215-2_4](https://doi.org/10.1007/978-3-031-54215-2_4).

2022

1. Reynolds, L. P., K. J. McLean, K. L. McCarthy, W. J. S. Diniz, A. C. B. Menezes, J. C. Forcherio, R. R. Scott, P. P. Borowicz, A. K. Ward, C. R. Dahlen, and J. S. Caton. 2022. Nutritional regulation of embryonic survival, growth, and development. In: Guyao Wu, editor. Advances in Experimental Medicine and Biology. Vol. 1354. Springer. p. 63–76. DOI: [10.1007/978-3-030-85686-1_4](https://doi.org/10.1007/978-3-030-85686-1_4).

Peer Reviewed Journal Articles (n = 68)

* Graduate students, post-doctoral fellow, or visiting scholars working under my supervision or co-supervision.

2024 (n = 13)

68. Banerjee, P., and W. J. S. Diniz. 2024. Advancing dairy and beef genetics through genomic technologies. Submitted to the Veterinary Clinics of North America: Food Animal Practice. V. 40 (3), p. 447-458. DOI: [10.1016/j.cvfa.2024.05.009](https://doi.org/10.1016/j.cvfa.2024.05.009).

67. Baumgaertner, F., A. C.B. Menezes, **W. J. S. Diniz**, T. E. Molden, J.L. Hurlbert, K. Bochantin, K. K. Sedivec, M. R. Wanchuk, J. D. Kirsch, S. R. Underdahl, and C. R. Dahlen. 2024. Effects of two different rates of body weight gain during the first trimester of pregnancy or supplementing vitamins and minerals throughout pregnancy on primiparous beef cow milk production and composition. *Transl. anim. sci.* DOI: *In press*.
66. Caton, J. S., M. S. Crouse, C. R. Dahlen, A. K. Ward, **W. J. S. Diniz**, C. J. Hammer, R. M. Swanson, K. M. Hauxwell, J. G. Syring, K. S. Safain, and L. P. Reynolds. 2024. International Symposium on Ruminant Physiology: Maternal nutrient supply: Impacts on physiological and whole animal outcomes in offspring. *J. Dairy Sci.* DOI: [10.3168/jds.2024-25788](https://doi.org/10.3168/jds.2024-25788).
65. Crouse, M. S., R. A. Cushman, C. A. Redifer, B. W. Neville, C. R. Dahlen, J. S. Caton, **W. J. S. Diniz**, and A. K. Ward. 2024. International Symposium on Ruminant Physiology: One-carbon metabolism in beef cattle throughout the production cycle. *J. Dairy Sci.* . DOI: [10.3168/jds.2024-25784](https://doi.org/10.3168/jds.2024-25784).
64. Dahlen, C. R., G. D. Ramírez-Zamudio, K. A. Bochantin-Winders, J. L. Hurlbert, M. S. Crouse, K. J. McLean, **W. J.S. Diniz**, S. Amat, A. P. Snider, J. S. Caton, and L. P. Reynolds. 2024. International Symposium on Ruminant Physiology: Paternal nutrient supply: impacts on physiological and whole animal outcomes in offspring. *J. Dairy Sci.* DOI: [10.3168/jds.2024-25800](https://doi.org/10.3168/jds.2024-25800).
63. *Anas, M., A. K. Ward, K. L. McCarthy, P. P. Borowicz, L. P. Reynolds, J. S. Caton, C. R. Dahlen, and **W. J. S. Diniz**. 2024. Intergenerational effects of maternal rate of body weight gain on the multi-omics hepatic profiles of bovine fetuses. *Gene*. 936:149082. DOI: [10.1016/j.gene.2024.149082](https://doi.org/10.1016/j.gene.2024.149082).
62. Polizel, G. H. G., S. L. Fanalli, **W. J. S. Diniz**, A. S. M. Cesar, N. R. B. Cônsolo, H. Fukumasu, A. Cánovas, A. C. Fernandes, B. C. T. Prati, É. Furlan, G. do V. Pombo, and M. H. de A. Santana. 2024. Liver transcriptomics-metabolomics integration reveals biological pathways associated with fetal programming in beef cattle. *Sci. Reports*, 14(1):1–20. DOI: [10.1038/s41598-024-78965-4](https://doi.org/10.1038/s41598-024-78965-4).
61. Baumgaertner, F., G. D. Ramírez-Zamudio, A. C. B. Menezes, I. M. Jurgens, M. R. Hirschert, J. L. Hurlbert, K. A. Bochantin, **W. J. S. Diniz**, L. P. Reynolds, A. K. Ward, P. P. Borowicz, S. R. Underdahl, J. D. Kirsch, S. T. Dorsam, K. K. Sedivec, J. S. Caton, and C. R. Dahlen. 2024. Rate of body weight gain during early gestation in F0 beef heifers has effects that extend multigenerationally to the F2 fetuses. *J. Anim. Sci.*, skae295. DOI: [10.1093/jas/skae295](https://doi.org/10.1093/jas/skae295).
60. Baumgaertner, F., A. C. B. Menezes, **W. J. S. Diniz**, J. L. Hurlbert, K. A. Bochantin, S. R. Underdahl, J. D. Kirsch, S. T. Dorsam, K. L. McCarthy, G. D. Ramírez-Zamudio, K. K. Sedivec, J. S. Caton, and C. R. Dahlen. 2024. Effects of rate of body weight gain during the first trimester of gestation on beef heifer and offspring performance, concentrations of hormones and metabolites, and response to vaccination. *J. Anim. Sci.*, skae193. DOI: [10.1093/jas/skae193](https://doi.org/10.1093/jas/skae193).
59. *Anas, M., A. K. Ward, K. L. McCarthy, P. P. Borowicz, L. P. Reynolds, J. S. Caton, C. R. Dahlen, and **W. J. S. Diniz**. lncRNA-gene network analysis reveals the effects of early maternal nutrition on mineral homeostasis and energy metabolism in the fetal liver transcriptome of beef heifers. *J. Nutr. Biochem.* DOI: [10.1016/j.jnutbio.2024.109691](https://doi.org/10.1016/j.jnutbio.2024.109691).
58. Ruiz, B. J. D., C. R. Dahlen, K. L. McCarthy, J. S. Caton, J. L. L. Hurlbert, F. Baumgaertner, A. C. B. Menezes, **W. J. S. Diniz**, S. R. Underdahl, J. D. Kirsch, K. K. Sedivec, K. A. Bochantin, P. P. Borowicz, S. Canovas, and L. P. Reynolds. 2024. Effect of maternal vitamins and minerals supplementation and (or) protein/energy from pre-breeding through pregnancy on placental development and angiogenic factors. *Vet. Sci.* 2024, 11, 111. DOI: [10.3390/vetsci11030111](https://doi.org/10.3390/vetsci11030111).
57. **Diniz, W. J. S.**, J. Afonso, *N. C. Kertz, P. W. Dyce, and P. Banerjee. 2024. Mapping expression quantitative trait loci targeting candidate genes for pregnancy in beef cows. *Biomolecules*. DOI: [10.3390/biom14020150](https://doi.org/10.3390/biom14020150).
56. Hurlbert, J. L., F. Baumgaertner, A. Clara, B. Menezes, K. A. Bochantin, **W. J. S. Diniz**, S. R. Underdahl, S. T. Dorsam, J. D. Kirsch, K. K. Sedivec, and C. R. Dahlen. 2024. Supplementing vitamins and minerals to beef heifers during gestation: impacts on mineral status in the dam and offspring, and growth and physiological responses of female offspring from birth to puberty. *J. Anim. Sci.* skae002. DOI: [10.1093/jas/skae002](https://doi.org/10.1093/jas/skae002).

2023 (n = 13)

55. *Kertz, N. C., P. Banerjee, P. W. Dyce, and **W. J. S. Diniz**. 2023. Harnessing genomics and transcriptomics approaches to improve female fertility in beef cattle—A review. *Animals*. 13:3284. DOI: [10.3390/ani13203284](https://doi.org/10.3390/ani13203284).
54. Malheiros, J. M., B. S. B. Correia, C. Ceribeli, J. J. Bruscadin, **W. J. S. Diniz**, P. Banerjee, D. da Silva Vieira, T. F. Cardoso, B. G. N. Andrade, J. Petrini, D. R. Cardoso, L. A. Colnago, S. Bogusz Junior, G. B. Mourão, L. L. Coutinho, J. C. P. Palhares, S. R. de Medeiros, A. Berndt, and L. C. de A. Regitano. 2023. Ruminal and feces metabolites associated with feed efficiency, water intake and methane emission in Nelore bulls. *Sci. Rep.* 13:18001. DOI: [10.1038/s41598-023-45330-w](https://doi.org/10.1038/s41598-023-45330-w).
53. Kassetas, C. J. ;, T. W. ; Geary, A. L. ; Zezeski, J. S. ; Caton, J. D. ; Kirsch, S. T. Dorsam, **W. J. S. Diniz**, K. L. McCarthy, M. S. Crouse, K. K. Sedivec, B. W. Neville, and C. R. Dahlen. 2023. Effects of feeding 60% dried corn distillers' grains or the equivalent sulfur as CaSO₄ on DNA integrity and gene expression in yearling Angus bull sperm. *Ruminants*, Vol. 3, Pages 286-298. 3:286–298. DOI: [10.3390/ruminants3040026](https://doi.org/10.3390/ruminants3040026).
52. Reynolds, L. P., C. R. Dahlen, A. K. Ward, M. S. Crouse, P. P. Borowicz, B. J. Davila-Ruiz, C. Kanjanaruch, K. A. Bochantin, K. J. McLean, K. L. McCarthy, A. C. B. Menezes, **W. J. S. Diniz**, R. A. Cushman, and J. S. Caton. 2023. Role of the placenta in developmental programming: Observations from models using large animals. *Anim. Reprod. Sci.* 257:107322. DOI: [10.1016/j.anireprosci.2023.107322](https://doi.org/10.1016/j.anireprosci.2023.107322).
51. Banerjee, P., **W. J. S. Diniz**, and P. W. Dyce. 2023. Dataset for miRNA expression analysis in the peripheral white blood cells of beef heifers at weaning. *Data Br.* 50:109515. DOI: [10.1016/j.dib.2023.109515](https://doi.org/10.1016/j.dib.2023.109515).
50. Dahlen, C. R., S. Amat, J. S. Caton, M. S. Crouse, **W. J. S. Diniz**, and L. P. Reynolds. 2023. Paternal effects on fetal programming. *Anim. Reprod.* 20. DOI: [10.1590/1984-3143-AR2023-0076](https://doi.org/10.1590/1984-3143-AR2023-0076).
49. Banerjee, P., **W. J. S. Diniz**, S. P. Rodning, and P. W. Dyce. 2023. miRNA expression profiles of peripheral white blood cells from beef heifers with varying reproductive potential. *Front. Genet.* 14. DOI: [10.3389/fgene.2023.1174145](https://doi.org/10.3389/fgene.2023.1174145).
48. **Diniz, W. J. S.**, A. K. Ward, K. L. McCarthy, C. J. Kassetas, F. Baumgaertner, L. P. Reynolds, P. P. Borowicz, K. K. Sedivec, J. D. Kirsch, S. T. Dorsam, T. L. Neville, J. C. Forcherio, R. Scott, J. S. Caton, and C. R. Dahlen. 2023. Dataset of RNA-Seq transcriptome of the fetal liver at day 83 of gestation associated with periconceptual maternal nutrition in beef heifers. *Data Br.* 48:109173. DOI: [10.1016/j.dib.2023.109173](https://doi.org/10.1016/j.dib.2023.109173).
47. *Anas, M., **W. J. S. Diniz**, A. C. B. Menezes, L. P. Reynolds, J. S. Caton, C. R. Dahlen, and A. K. Ward. 2023. Maternal mineral nutrition regulates fetal genomic programming in cattle: A review. *Metabolites*. 13:593. DOI: [10.3390/metabo13050593](https://doi.org/10.3390/metabo13050593).
46. Banerjee, P., **W. J. S. Diniz**, S. P. Rodning, and P. W. Dyce. 2023. Transcriptomic dataset from peripheral white blood cells of beef heifers at weaning. *Data Br.* 48:109046. DOI: [10.1016/j.dib.2023.109046](https://doi.org/10.1016/j.dib.2023.109046).
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2022 (n = 12)

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35. de Souza, M. M., S. C. M. Niciura, M. I. P. Rocha, Z. Pan, H. Zhou, J. J. Bruscadin, **W. J. S. Diniz**, J. Afonso, P. S. N. de Oliveira, G. B. Mourão, A. Zerlotini, L. L. Coutinho, J. E. Koltes, and L. C. de A. Regitano. 2022. DNA methylation may affect beef tenderness through signal transduction in *Bos indicus*. *Epigenetics Chromatin*. 15:15. DOI: [10.1186/s13072-022-00449-4](https://doi.org/10.1186/s13072-022-00449-4).
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2021 (n = 4)

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placental expression of energy metabolism and transport-related genes. *Genes*. 12:385. DOI: [10.3390/genes12030385](https://doi.org/10.3390/genes12030385). **Editor's Choice recommendation.**

28. **Diniz, W. J. S.**, M. S. Crouse, R. A. Cushman, K. J. McLean, J. S. Caton, C. R. Dahlen, L. P. Reynolds, and A. K. Ward. 2021. Cerebrum, liver, and muscle regulatory networks uncover maternal nutrition effects in developmental programming of beef cattle during early pregnancy. *Sci. Rep.* 11:2771. DOI: [10.1038/s41598-021-82156-w](https://doi.org/10.1038/s41598-021-82156-w).
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2020 (n = 6)

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25. de Souza, M. M., A. Zerlotini, M. I. P. Rocha, J. J. Bruscadin, **W. J. S. Diniz**, T. F. Cardoso, A. S. M. Cesar, J. Afonso, B. G. N. Andrade, M. de A. Mudadu, F. B. Mokry, P. C. Tizioto, P. S. N. de Oliveira, S. C. M. Niciura, L. L. Coutinho, and L. C. de A. Regitano. 2020. Allele-specific expression is widespread in *Bos indicus* muscle and affects meat quality candidate genes. *Sci. Rep.* 10:1–11. DOI: [10.1038/s41598-020-67089-0](https://doi.org/10.1038/s41598-020-67089-0).
24. Afonso, J., M. R. S. Fortes, A. Reverter, **W. J. S. Diniz**, A. S. M. Cesar, A. O. de Lima, J. Petrini, M. M. de Souza, L. L. Coutinho, G. B. Mourão, A. Zerlotini, C. F. Gromboni, A. R. A. Nogueira, and L. C. de A. Regitano. 2020. Genetic regulators of mineral amount in Nelore cattle muscle predicted by a new co-expression and regulatory impact factor approach. *Sci. Rep.* 10:1–16. DOI: [10.1038/s41598-020-65454-7](https://doi.org/10.1038/s41598-020-65454-7).
23. Carmelo, V. A. O., P. Banerjee, **W. J. S. Diniz**, and H. N. Kadarmideen. 2020. Metabolomic networks and pathways associated with feed efficiency and related-traits in Duroc and Landrace pigs. *Sci. Rep.* 10:255. DOI: [10.1038/s41598-019-57182-4](https://doi.org/10.1038/s41598-019-57182-4).
22. de Lima, A. O., J. E. Koltes, **W. J. S. Diniz**, P. S. N. de Oliveira, A. S. M. Cesar, P. C. Tizioto, J. Afonso, M. M. de Souza, J. Petrini, M. I. P. Rocha, T. F. Cardoso, A. Z. Neto, L. L. Coutinho, G. B. Mourão, and L. C. A. Regitano. 2020. Potential biomarkers for feed efficiency-related traits in nelore cattle identified by co-expression network and integrative genomics analyses. *Front. Genet.* 11:189. DOI: [10.3389/fgene.2020.00189](https://doi.org/10.3389/fgene.2020.00189).
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2019 (n = 4)

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pathways related to mineral concentration in *Bos indicus*. *Sci. Rep.* 9:12715. DOI: [10.1038/s41598-019-49089-x](https://doi.org/10.1038/s41598-019-49089-x).

2018 (n = 3)

16. **Diniz, W. J. S.**, K. O. Rosa, L. L. Coutinho, P. C. Tizioto, P. S. N. de Oliveira, M. M. de Souza, A. S. Chaves, D. P. D. Lanna, G. B. Mourão, and L. C. A. Regitano. 2018. KCNJ11 gene expression is associated to feed consumption and growth traits in Nelore beef cattle. *Agri Gene*. DOI: [10.1016/j.aggene.2018.05.004](https://doi.org/10.1016/j.aggene.2018.05.004).
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2017 (n = 2)

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12. **Diniz, W. J. S.**, L. F. Vilaça, T. F. Melo, J. C. V. Oliveira, S. I. Guido, and K. R. Santoro. 2017. Polimorfismos na região 3'UTR do gene SLC11A1 em rebanhos leiteiros Holandês e Girolando. *Med. Veterinária*. 11:62–66. DOI: [10.26605/medvet-n1-1626](https://doi.org/10.26605/medvet-n1-1626). *This publication is in Portuguese.*

2016 (n = 6)

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10. Tizioto, P. C., L. L. Coutinho, P. S. N. Oliveira, A. S. M. Cesar, **W. J. S. Diniz**, A. O. Lima, M. I. Rocha, J. E. Decker, R. D. Schnabel, G. B. Mourão, R. R. Tullio, A. Zerlotini, J. F. Taylor, and L. C. A. Regitano. 2016. Gene expression differences in Longissimus muscle of Nelore steers genetically divergent for residual feed intake. *Sci. Rep.* 6:39493. DOI: [10.1038/srep39493](https://doi.org/10.1038/srep39493).
9. de Souza, M. M., S. C. M. Niciura, P. C. Tizioto, A. M. G. Ibelli, G. Gasparin, M. I. P. Rocha, F. A. Bressani, W. Malagó-Jr, **W. J. S. Diniz**, P. S. N. de Oliveira, A. O. Lima, M. A. Mudadu, W. Barioni Junior, L. L. Coutinho, and L. C. A. Regitano. 2016. Allele- and parent-of-origin-specific effects on expression of the KCNJ11 gene: A candidate for meat tenderness in cattle. *Genet. Mol. Res.* 15. DOI: [10.4238/gmr.15038549](https://doi.org/10.4238/gmr.15038549).
8. de Oliveira, P. S. N. S. N., P. C. C. Tizioto, W. Malagó Jr, M. L. L. do Nascimento, A. S. M. S. M. Cesar, **W. J. S. Diniz**, M. M. M. de Souza, D. P. Lanna, R. R. R. Tullio, G. B. B. Mourão, M. de A. Mudadu, L. L. L. Coutinho, and L. C. de A. Regitano. 2016. A single nucleotide polymorphism in NEUROD1 is associated with production traits in Nelore beef cattle. *Genet. Mol. Res.* 15. DOI: [10.4238/gmr.15028161](https://doi.org/10.4238/gmr.15028161).
7. Vilaça, L. F., **W. J. S. Diniz**, T. F. Melo, J. C. Oliveira, S. Guido, C. E. V. L. Brito, N. A. Costa, and K. R. Santoro. 2016. BoLA-DRB3 gene polymorphisms in 5/8 Girolando and Holstein dairy cattle herds in the Pernambuco State. *Arch. Zootec.* 65:7–11. DOI: [10.21071/az.v65i249.435](https://doi.org/10.21071/az.v65i249.435). *This publication is in Portuguese.*
6. Lucena, J. E. C., S. A. B. Vianna, F. Berbari Neto, R. L. M. Sales Filho, and **W. J. S. Diniz**. 2016. Morphometric characterization of Campolina mares, stallions and gelded horses using indexes. *Arq. Bras. Med. Veterinária e Zootec.* 68:431–438. DOI: [10.1590/1678-4162-8016](https://doi.org/10.1590/1678-4162-8016). *This publication is in Portuguese.*

2015 (n = 1)

5. Lucena, J. E. C., S. A. de B. Vianna, F. Berbari Neto, R. L. M. Sales Filho, and **W. J. S. Diniz**. 2015. Comparative study of morphometric proportions among Campolina's stallions and gelded ones. *Semin. Ciências Agrárias*. 36:353. DOI: [10.5433/1679-0359.2015v36n1p353](https://doi.org/10.5433/1679-0359.2015v36n1p353). *This publication is in Portuguese.*

Before 2014 (n = 4)

4. **Diniz, W. J. S.**, R. B. Almeida, R. F. Cardozo, C. M. Pedrosa, P. J. S. Feitosa, and D. F. Brandespim. 2014. General characteristics of dairy goat production in Paranatama, PE. *Acta Veterinaria Brasilica (UFERSA)*, v.8 (2), p.113-120, 2014. DOI: [10.21708/avb.2014.8.2.3429](https://doi.org/10.21708/avb.2014.8.2.3429). *This publication is in Portuguese.*

3. **Diniz, W. J. S.**, R. B. Almeida, R. B., C. N. Lima, R. R. Oliveira, W. A. Quirino, and D. F. Brandespim. 2014. Hygienic aspects of meat sale in street markets: the trader's perception. *Acta Veterinaria Brasilica (UFERSA)*, v.7(4), p.294 - 299, 2013. DOI: [10.21708/avb.2013.7.4.3431](https://doi.org/10.21708/avb.2013.7.4.3431). *This publication is in Portuguese.*
2. **Diniz, W. J. S.**, R. B. Almeida, R. B., C. N. Lima, R. R. Oliveira, W. A. Quirino, and D. F. Brandespim. 2014. Consumer profile and their perception of the hygienic aspects of meat sale in street market fairs. *Acta Veterinaria Brasilica (UFERSA)*, v v.6, n.3, p.223-229, 2012. DOI: [10.21708/avb.2013.7.4.3431](https://doi.org/10.21708/avb.2013.7.4.3431). *This publication is in Portuguese.*
1. Almeida, R. B., **W. J. S. Diniz**, P. T. V. Silva, L. P. Andrade, W. P. S. Diniz, J. B. G. Leal, and D. F. Brandespim, 2011. Hygienic and sanitary conditions for the sale of meat in open market fairs in Paranatama, PE. *Alimentos e Nutrição*, v. 22, n. 4, p. 585-592, 2011. *This publication is in Portuguese.*

Non-Peer Reviewed Publications

Proceedings (n = 15)

* Graduate students, post-doctoral fellow, or visiting scholars working under my supervision or co-supervision.

2023 (n = 2)

15. Afonso, J., M. R. S. Fortes, W. J. Shim, T. F. Cardoso, J. J. Bruscadin, A. O. de Lima, **W. J. S. Diniz**, B. Silva-Vignato, W. L. A. Tan, A. S. M. Cesar, M. Boden, G. B. Mourão, A. Zerlotini, L. L. Coutinho, and L. C. A. Regitano. 2023. Epigenetic repression of genes associated with ribeye area of Nelore cattle. [25: 206–209](#). In: *Proc. Assoc. Advmt. Anim. Breed. Genet.* July 26-28, Perth, Australia. 2023.
14. Hall, J., **W. J. S. Diniz**, and G. Bobe. Supranutritional selenium supplementation during gestation in beef cattle affects gene expression of monocytes at parturition. In: [Proceedings of 7th International Conference on Selenium in the Environment and Human Health](#). September 24-27, Bangkok, Thailand. 2023.

2022 (n = 3)

13. *Bruscadin, J. J., T. F. Cardoso, **W. J. S. Diniz**, J. Afonso, M. M. de Souza, J. Petrini, V. H. da Silva, A. Zerlotini, L. L. Coutinho, and L. C. A. Regitano. 2022. 496. Using allele-specific expression to uncover cis-regulation in bovine muscle. Wageningen Academic Publishers. p. 2061–2064. DOI: [10.3920/978-90-8686-940-4_496](https://doi.org/10.3920/978-90-8686-940-4_496). In: *Proceedings of 12th World Congress on Genetics Applied to Livestock Production (WCGALP)*. July 3-8, Rotterdam, The Netherlands. 2022.
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2018 (n = 3)

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[Animal Functional Genomics & Functional Annotation of Animal Genomes](#). November 12-15 Adelaide, Australia, 2018. .

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2015 (n = 3)

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2014 (n = 1)

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2013 (n = 3)

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Abstracts (n = 91)

* Graduate students, post-doctoral fellow, or visiting scholars working under my supervision or co-supervision.

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2021 (n = 5)

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47. Baumgaertner, F., A. C. B. Menezes, **W. J. S. Diniz**, K. K. K. Sedivec, J. D. Kirsch, S. R. Underdahl, S. T. T. Dorsam, A. K. Ward, K. L. L. McCarthy, J. Caton, and C. R. Dahlen. 2021. 73 Effect of rate of gain during early gestation on colostrum and milk composition in beef heifers. *J. Anim. Sci.* 99:115–115. DOI: [10.1093/jas/skab054.190](https://doi.org/10.1093/jas/skab054.190). In: ASAS-Midwest Section. March 08-10. Virtual. 2021.
46. Souza, M. M., S. C. M. Niciura, M. I. P. Rocha, **W. J. S. Diniz**, J. J. Bruscadin, J. Afonso, P. S. N. de Oliveira, G. B. Mourão, A. Zerlotini, L. L. Coutinho, J. E. Koltes, and L. C. A. Regitano. 2021. W155 Epigenetic marks in the promoter of GNAS and EBF3 are associated with meat tenderness in *Bos indicus*. In: [38th International Society for Animal Genetics](#). July 26-30, 2021. Virtual.

2020 (n = 3)

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43. **Diniz, W. J. S.**, M. S. Crouse, R. A. Cushman, J. Caton, C. R. Dahlen, L. P. Reynolds, and A. K. Ward. 2020. PSXII-26 Maternal energy restriction in early gestation affects MYOG network topology of bovine skeletal muscle. *J. Anim. Sci.* 98:241–241. DOI: [10.1093/jas/skaa278.439](https://doi.org/10.1093/jas/skaa278.439). In: ASAS- CSAS-WSASAS Annual Meeting. July 19-23, 2020. Virtual.

2019 (n = 3)

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2018 (n = 2)

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2017 (n =7)

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35. Buss, C., **W. J. S. Diniz**, B. Andrade, M. Rocha, A. Lima, L. Geistlinger, J. Afonso, R. Tullio, P. Tizioto, J. Petrini, L. L. Coutinho, J. Wolf, G. Mourão, and L. C. A. Regitano. 2017. MT354 Identification of pleiotropic loci for daily weight gain and intramuscular fat in cattle using bivariate genome-wide association analysis. In: [International Society for Animal Genetics](#). July 16-21, Dublin, Ireland. 2017.
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2016 (n = 10)

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26. Oliveira, P. S. N., P. C. Tizioto, G. B. Oliveira, A. S. M. Cesar, M. D. Poletti, **W. J. S. Diniz**, A. O. Lima, J. M. Reecy, L. L. Coutinho, and L. C. A. Regitano. 2016. Differentially expressed miRNAs in liver tissue related to feed efficiency in Nelore cattle. In: Proceedings of the Biology Genomes, Cold Spring Harbor. p. 215. May 10 - 14, New York, USA. 2016.
25. Silva, J. V., P. C. Tizioto, P. S. N. Oliveira, J. Afonso, **W. J. S. Diniz**, A. O. Lima, M. M. Souza, M. P. I. Rocha, C. E. Buss, L. L. Coutinho, and L. C. A. Regitano. 2016. Differentially expressed genes in skeletal muscle of Nelore steers divergent for raw efficiency. In: [Anais da VIII Jornada Científica – Embrapa São Carlos](#). p. 35. July 07 – 08, 2016, São Carlos, São Paulo, Brazil. 2016. *This publication is in Portuguese.*
24. Oliveira, P. S. N., A. S. M. Cesar, G. B. Oliveira, M. D. Poletti, **W. J. S. Diniz**, A. O. Lima, J. M. Reecy, L. L. Coutinho, and L. C. A. Regitano. 2016. miRNAs related to fatty acids composition in Nelore cattle. J. Anim. Sci. 94:164. DOI: [10.2527/jam2016-0341](#). In: ASAS- CSAS-WSASAS Annual Meeting. July 19-23, Salt Lake City, Utah, USA. 2016.
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2015 (n = 8)

20. Souza, M. M., F. B. Mokry, P. C. Tizioto, P. S. N. Oliveira, A. L. Somavilla, A. S. M. Cesar, D. D. Moré, G. B. Mourão, **W. J. S. Diniz**, M. A. Mudadu, S. C. M. Niciura, L. L. Coutinho, A. Zerlotini Neto, and L. C. A. Regitano. 2015. Allele specific expression analysis in bovine muscle tissue. In: X-Meeting 2015 - 11th International Conference of the AB3C+ Brazilian Symposium of Bioinformatics. November 3 – 6, São Paulo, SP, Brazil.
19. Lima, A. O., **W. J. S. Diniz**, P. C. Tizioto, P. S. N. Oliveira, M. M. Souza, K. O. Rosa, M. A. Mudadu, G. B. Mourão, L. L. Coutinho, and L. C. A. Regitano. 2015. Annotation of SNPs in genes differentially expressed in liver and muscle of Nelore cattle breed extremes for residual feed intake. In: [Reunião Anual da Sociedade Brasileira para o Progresso da Ciência](#) - SBPC, July 12-18, São Carlos, São Paulo, 2015. *This publication is in Portuguese.*
18. Lucena, J. E. C., **W. J. S. Diniz**, F. Berbari Neto, R. L. Sales Filho, and S. A. B. Vianna. 2015. Frequency of coat colors in Campolina horses. In: XXIV Congreso de la Asociación Latinoamericana de Producción Animal. November, 9 – 13, Puerto Varas – Chile, 2015. *This publication is in Portuguese.*
17. Oliveira, P. S. N., A. O. Lima, P. C. Tizioto, **W. J. S. Diniz**, M. M. Souza, G. B. Mourão, J. F. Taylor, M. A. Mudadu, L. C. A. Regitano. 2015. Gene network for feed efficiency in Nelore cattle: genome wide associations and liver and muscle transcriptome information In: International Symposium on Animal Functional Genomics. July 25-27, Piacenza, Italy, 2015.
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15. Santana, R. R. I. M., K. O. Rosa, A. O. Lima, P. C. Tizioto, P. S. N. Oliveira, **W. J. S. Diniz**, M. M. Souza, M. A. Mudadu, L. L. Coutinho, G. B. Mourão, and L. C. A. Regitano. 2015. Obtaining messenger RNA samples for quantitative analysis of the expression values of candidate genes for food efficiency traits in Nelore. In: [Reunião Anual da Sociedade Brasileira para o Progresso da Ciência](#) - SBPC, July 12-18, São Carlos, São Paulo, 2015. *This publication is in Portuguese.*
14. Rosa, K. O., P. C. Tizioto, **W. J. S. Diniz**, P. S. N. Oliveira, M. M. Souza, G. B. Mourão, M. A. Mudadu, L. L. Coutinho, R. R. I. M. Santana, V. F. M. H. Lima, and L. C. A. Regitano. 2015. Expression pattern of the FABP1 gene affects feed efficiency related-traits in cattle. In: [Reunião Anual da Sociedade Brasileira para o Progresso da Ciência](#) - SBPC, July 12-18, São Carlos, São Paulo, 2015. *This publication is in Portuguese.*
13. **Diniz, W. J. S.**, P. C. Tizioto, C. F. Gromboni, A. R. A. Nogueira, K. O. Rosa, A. S. M. Cesar, P. S. N. Oliveira, M. M. Souza, A. O. Lima, L. L. Coutinho, and L. C. A. Regitano. 2015. Transcriptomic profile of the *Longissimus dorsi* muscle of Nelore cattles extreme for iron content. In: [Reunião Anual da Sociedade Brasileira para o Progresso da Ciência](#) - SBPC, July 12-18, São Carlos, São Paulo, 2015. *This publication is in Portuguese.*

2014 (n = 4)

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11. Noronha, C. T., W. J. S. Diniz, E. P. M. Luna, M. D. S. Araujo, J. C. Oliveira, S. I. Guido, and K. R. Santoro. 2014. Association of the *SLC11A1* polymorphism with milk production on a Holstein reference herd in semiarid Pernambuco region. In: 51^a Reunião Anual da Sociedade Brasileira de Zootecnia. July 29th - August 2nd, Barra dos Coqueiros, Sergipe, Brazil. 2014.
10. Souza, M. M., A. Zerlotini Neto, P. C. Tizioto, P. S. N. Oliveira, A. L. Somavilla, F. B. Mokry, A. S. M. Cesar, D. D. Moré, G. B. Mourão, **W. J. S. Diniz**, M. A. Mudadu, S. C. M. Niciura, L. L. Coutinho, and L. C. A. Regitano. 2014. Complex pattern of CAST allelic expression in bovine muscle tissue. In: [22nd Annual international Conference on Intelligent Systems for Molecular Biology](#). July 11-15, Boston, Massachusetts, USA. 2014.

9. Souza, M. M., A. Zerlotini Neto, P. C. Tizioto, P. S. N. Oliveira, A. L. Somavilla, F. B. Mokry, A. S. M. Cesar, **W. J. S. Diniz**, L. L. Coutinho, and L. C. A. Regitano. 2014. Monoallelic expression of NNAT gene in Nelore steers skeletal muscle. In: [10th World Congress of Genetics Applied to Livestock Production](#). August 17-22, Vancouver, Canada. 2014.

2012 (n = 4)

8. **Diniz, W. J. S.**, C. N. Lima, R. M. Lyra-Neves, and W. R. Telino-Júnior. 2012. Estudo etnoornitológico no remanescente quilombola Estivas, Garanhuns, Pernambuco. In: [XXIX Congresso Brasileiro de Zoologia](#), p. 277. March 5-9, Salvador, Bahia, Brazil. 2012. *This publication is in Portuguese.*
7. Lima, C. N., **W. J. S. Diniz**, R. M. Lyra-Neves, and W. R. Telino-Júnior. 2012. Levantamento preliminar da avifauna da comunidade remanescente quilombola Estivas, Garanhuns-PE. In: [XXIX Congresso Brasileiro de Zoologia](#), p. 285. March 5-9, Salvador, Bahia, Brazil. 2012. *This publication is in Portuguese.*
6. **Diniz, W. J. S.**, L. F. Vilaça, T. F. Melo, and K. R. Santoro. 2012. Otimização da metodologia PCR-SSCP para identificação de polimorfismos do gene NRAMP-1. In: XII Jornada de Ensino, Pesquisa e Extensão, 2012, Garanhuns. *This publication is in Portuguese.*
5. Vilaça, L. F., **W. J. S. Diniz**, A. V. S. Paz, T. F. Melo, J. C. V. Oliveira, S. I. Guido, and K. R. Santoro. Identificação de SNPs e regiões de conservação do gene BOLA-DRB3 em rebanhos do estado de Pernambuco. In XII Jornada de Ensino Pesquisa e Extensão. Garanhuns. 2012. *This publication is in Portuguese.*

2011 (n = 2)

4. **Diniz, W. J. S.**, T. F. Melo, L. F. Vilaça, K. R. Santoro, and H. C. S. 2011. Santos. Avaliação experimental da pureza de ácidos nucleicos, EDTA e TRIS-HCL por espectrofotometria. In: XI Jornada de Ensino Pesquisa e Extensão, 2011, Garanhuns.
3. Vilaça, L. F., **W. J. S. Diniz**, T. F. Melo, A. V. S. Paz, C. G. Souza Júnior, and K. R. Santoro. 2011. Otimização do método de amplificação em PCR para identificação de polimorfismos do gene BoLA-DRB3.2. In: X Congresso Internacional do Leite. October 25-27, Alagoas. 2011. *This publication is in Portuguese.*

Before 2010 (n = 2)

2. **Diniz, W. J. S.**, P. P. Melo, R. M. L. Neves, W. R. Telino-júnior, H. F. Lima. 2010. Os Moradores do remanescente quilombola Estrela e sua percepção sobre a avifauna local, Garanhuns-PE. In: XVII Encontro de Zoologia do Nordeste, August 9-13, São Raimundo Nonato, Piauí, Brazil. 2010. *This publication is in Portuguese.*
1. **Diniz, W. J. S.**, P. P. Melo, R. M. L. Neves, W. R. Telino-júnior, and H. L. Andrade. 2009. Percepção etnoornitológica de comunidade quilombola em Garanhuns, Pernambuco, Brasil. In: V Encontro Nordestino de Etnoecologia e Etnobiologia, 2009, Paraíba. *This publication is in Portuguese.*

Outreach Publications (n = 11)

2024 (n = 2)

11. *N. C. Kertz, J. Afonso, P.W. Dyce, Banerjee, P., and **W. J. S. Diniz**. 2024. Targeting candidate genes for pregnancy in beef cows. p. 53-58. Alabama Livestock Research Report. 2nd edition. DOI: [10.35099/aurora-700](#).
10. Banerjee, P., **W. J. S. Diniz**, S. P. Rodning, and P. W. Dyce. 2024. Molecular targets differing at weaning in beef heifers with varying reproductive outcomes. Alabama Livestock Research Report. 2nd edition. DOI: [10.35099/aurora-700](#).

2023 (n = 3)

9. **Diniz, W. J. S.**, G. Bobe, and J. A. Hal. 2023. Effects of maternal selenium supplementation during gestation on newborn muscle transcriptome. p. 26-30. Alabama Livestock Research Report. DOI: [10.35099/aurora-571](#).
8. Banerjee, P., S. Rodning, **W. J. S. Diniz**, and P. Dyce. 2023. Gene and metabolite targets to predict and improve reproductive outcome in beef heifers. p. 36-41. Alabama Livestock Research Report. DOI: [10.35099/aurora-571](#).

7. Banerjee, P., *N. C. Kertz, S. Rodining, P. Dyce, and **W. J. S. Diniz**. 2023. Predicting pregnancy status in beef cows through machine-learning. p. 47-51. Alabama Livestock Research Report. DOI: [10.35099/aurora-571](https://doi.org/10.35099/aurora-571).

2022 (n = 4)

6. Hurlbert, J. L., F. Baumgaertner, A. C. B. Menezes, K. A. Bochantin, **W. J. S. Diniz**, S. R. Underdahl, S. T. Dorsam, J. D. Kirsch, K. K. Sedivec, and C. R. Dahlen. 2022. Supplementing trace minerals to beef heifers during gestation: impacts on mineral status of the dam and neonate, postnatal performance and colostrum characteristics. p. 64-68. Available on: [North Dakota Livestock Research Report](#).
5. Jurgens, I. M., S. R. Underdahl, J. L. Hurlbert, K. A. Bochantin, K. K. Sedivec, J. D. Kirsch, S. T. Dorsam, A. C. B. Menezes, **W. J. S. Diniz**, A. K. Ward, K. L. McCarthy, J. S. Caton, and C. R. Dahlen. 2022. Nutrition during early pregnancy impacts offspring ovarian characteristics. p. 69-72. Available on: [North Dakota Livestock Research Report](#).
4. Dávila, BJ, C. R. Dahlen, J. L. Hurlbert, F. Baumgaertner, K. A. Bochantin, A. C. B. Menezes, **W. J. S. Diniz**, S. R. Underdahl, J. D. Kirsch, K. K. Sedivec, P. P. Borowicz, S. Cánovas, and L. P. Reynolds. 2022. Effect of supplementation with vitamins and minerals and/or rate of gain on placental vascular development of Angus heifers. p. 80-83. Available on: [North Dakota Livestock Research Report](#).
3. Baumgaertner, F., A. C. B. Menezes, **W. J. S. Diniz**, J. L. Hurlbert, K. A. Bochantin, J. D. Kirsch, S. T. Dorsam, S. R. Underdahl, K. K. Sedivec, and C. R. Dahlen. 2022. Rate of gain during early gestation in beef Heifers does not influence development, feed intake and behavior, puberty attainment, and concentrations of hormones and metabolites in female offspring. p. 46-50. Available on: [North Dakota Livestock Research Report](#).

2021 (n = 1)

2. Baumgaertner, F., A. C. B. Menezes, **W. J. S. Diniz**, K. K. Sedivec, J. D. Kirsch, S. R. Underdahl, S. T. Dorsam, A. K. Ward, K. L. McCarthy, J. S. Caton, and C. R. Dahlen. 2021. Effect of rate of gain during early gestation on colostrum and milk composition in beef heifers. Available on: [North Dakota Livestock Research Report](#).

2020 (n = 1)

1. Baumgaertner, F., S. R. Underdahl, K. K. Sedivec, J. D. Kirsch, S. T. Dorsam, A. C. B. Menezes, **W. J. S. Diniz**, A. K. Ward, K. L. McCarthy, J. S. Caton, and C. R. Dahlen. 2020. Effects of two different rates of gain during early gestation in beef heifers on body weight, concentrations of IGF-1, and calf characteristics. Available on: [North Dakota Beef and Sheep Report](#).

SERVICE

University Service

1. Served as a judge for the Student Research Symposium – Auburn University, March 2024.

Service to the College of Agriculture

2. Reviewer for the York ISP call. 2023.
3. Served as a judge for the Graduate Student Poster Showcase. 2021, 2022.

Department Service

a. Standing Committees

1. Member, Undergraduate Curriculum Committee (2022 – Present)
2. Member, Graduate Program Committee (2022 – Present)
3. Member, Seminar Committee (2022 – Present)
4. Member, Social Committee (2022 – Present)
5. Member, Equipment Committee ((2023 – 2024)

b. Search and Hire Committees

Member, Assistant Professor of Biochemistry, Department of Animal Sciences (Fall 2022-Spring 2023). The committee was chaired by Dr. Paul Dyce and had Dr. Marko Rudar, Dr. Terry Brandebourg, Dr. Jacek Wower, Dr. Rishi Prasad, and Dr. Evert Duin (Dept. of Chemistry and Biochemistry) as members.

c. Other Services

1. **NRSP8:** Genomic Capacity: Building Applied Genomic Capacity for Animal Industries. Member. **Co-coordinator of Aim 1:** Extending genomics capacity to a broader range of Animal Science stakeholders. 2025-2026.
2. Abstract reviewer for the 2025 ASAS Southern/Western Joint Meeting. January 2025.
3. Chair - Physiology and Endocrinology section. American Society of Animal Science Annual Meeting. July 22, 2024.
4. Served as a judge for the Undergrad and Graduate Student PhD1 Poster Competition. American Society of Animal Science Annual Meeting. July 2024.
5. Abstract reviewer for the 2024 ASAS Southern Section Meeting. October 2023.
6. Coordinator and editor for the Alabama Livestock Research Report. 2022 – Present.
7. Chairman, Animal Science Faculty/retreat committee. Members: Kim Mullenix and Paul Dyce. August 14, 2023.
8. Performed Peer-review of Teaching, Spring 2022, Spring 2023, Spring 2024.
9. Host guest lecturer Dr. Luciana Regitano for Departament seminar (03/31/2023).
10. Member, Animal Science Faculty/retreat committee. Chairman: Kim Mullenix, member Donald Mulvaney and Paul Dyce. December 2021.

PROFESSIONAL MEMBERSHIP

2020 - present	American Society of Animal Science (<i>Member</i>)
2022 - present	American Society of Animal Science – Southern Section (<i>Program committee member, Breeding and Genetics</i>)
2022- present	International Society for Animal Genetics (ISAG) - Member

GUEST EDITOR

Year (submission)	Journal	Access	#Articles
2023 (closed)	Frontiers in Genetics	aub.ie/fgene23	5
2022(closed)	Metabolites	aub.ie/mdpi	6
2021 (closed)	Frontiers in Genetics	aub.ie/fgene	5

Ad hoc reviewer

Animals (2), Animal, Animal Genetics (2), Animal Production Science (3), Antioxidants (3), BMC Genomics (3), BMC Data (2), Foods (4), Frontiers in Genetics (4), Frontiers in Veterinary (1), Functional & Integrative Genomics (1), GENE (1), Genes (1), Genome (1), Heredity (2), International Journal of Molecular Sciences (3), Journal of Animal Sciences, Journal of Animal Feed Science and Technology, Journal of Agricultural and Food Chemistry, Metabolites (4), Nutrients, PLOS ONE (2), Scientific Reports (5).

Updated on January 21st, 2025.