

Nicola Vergara Lopes Serão

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

1,381
citations

361388

20
h-index

377849

34
g-index

114
all docs

114
docs citations

114
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Marker effects and heritability estimates using additive-dominance genomic architectures via artificial neural networks in <i>Coffea canephora</i> . <i>PLoS ONE</i> , 2022, 17, e0262055.	2.5	3
2	Assessing the statistical training in animal science graduate programs in the United States: survey on statistical training. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	2
3	Genomics of response to porcine reproductive and respiratory syndrome virus in purebred and crossbred sows: antibody response and performance following natural infection vs. vaccination. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	2
4	Gut microbiome associations with outcome following co-infection with porcine reproductive and respiratory syndrome virus (PRRSV) and porcine circovirus type 2 (PCV2) in pigs immunized with a PRRS modified live virus vaccine. <i>Veterinary Microbiology</i> , 2021, 254, 109018.	1.9	5
5	127 Antibody Response as an Indicator Trait for Improved Reproductive Performance During a PRRSV Outbreak: Genetic Correlations of S/P Ratio with Reproductive Traits in Landrace and Duroc Sows. <i>Journal of Animal Science</i> , 2021, 99, 19-20.	0.5	0
6	153 Characteristics of Animal Science Graduate Students Associated with Their Professional Interest in Statistics and Career Path. <i>Journal of Animal Science</i> , 2021, 99, 145-145.	0.5	0
7	128 Differences in PRRSV Resilience for Reproductive Performance Between Landrace and Duroc Sows. <i>Journal of Animal Science</i> , 2021, 99, 18-19.	0.5	0
8	40 Novel Genomic Regions Associated with Igg Antibody Response to PRRSV Vaccination Revealed by Haplotype-based GWAS. <i>Journal of Animal Science</i> , 2021, 99, 31-32.	0.5	0
9	129 Genomic Relationship Between PRRSV Wild-type Infection and PRRSV Vaccination for Antibody Response and Reproductive Performance. <i>Journal of Animal Science</i> , 2021, 99, 18-18.	0.5	0
10	189 Fundamentals, Common Mistakes, and Graduate Education in Statistics. <i>Journal of Animal Science</i> , 2021, 99, 104-105.	0.5	0
11	132 Lack of Randomization and Its Impact on Statistical Power and Validity of Statistical Analyses. <i>Journal of Animal Science</i> , 2021, 99, 76-76.	0.5	0
12	Effects of increasing dietary oil inclusion from different sources on growth performance, carcass and meat quality traits, and fatty acid profile in genetically lean immunocastrated male pigs. <i>Livestock Science</i> , 2021, 248, 104515.	1.6	18
13	Proteomic Analysis of Liver from Finishing Beef Cattle Supplemented with a Rumen-Protected B-Vitamin Blend and Hydroxy Trace Minerals. <i>Animals</i> , 2021, 11, 1934.	2.3	0
14	Transcriptome changes in newborn goatsâ€™ skeletal muscle as a result of maternal feed restriction at different stages of gestation. <i>Livestock Science</i> , 2021, 248, 104503.	1.6	3
15	Intramuscular collagen characteristics and expression of related genes in skeletal muscle of cull cows receiving a high-energy diet. <i>Meat Science</i> , 2021, 177, 108495.	5.5	12
16	Host Genetics of Response to Porcine Reproductive and Respiratory Syndrome in Sows: Reproductive Performance. <i>Frontiers in Genetics</i> , 2021, 12, 707870.	2.3	1
17	Host Genetics of Response to Porcine Reproductive and Respiratory Syndrome in Sows: Antibody Response as an Indicator Trait for Improved Reproductive Performance. <i>Frontiers in Genetics</i> , 2021, 12, 707873.	2.3	4
18	Phenotypic and genomic relationships between vulva score categories and reproductive performance in first-parity sows. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 7.	5.3	5

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19	Dietary nucleotide supplementation as an alternative to in-feed antibiotics in weaned piglets. <i>Animal</i> , 2021, 15, 100021.	3.3	15
20	Further host-genomic characterization of total antibody response to PRRSV vaccination and its relationship with reproductive performance in commercial sows: genome-wide haplotype and zygosity analyses. <i>Genetics Selection Evolution</i> , 2021, 53, 91.	3.0	3
21	Investigating the relationship between vaginal microbiota and host genetics and their impact on immune response and farrowing traits in commercial gilts. <i>Journal of Animal Breeding and Genetics</i> , 2020, 137, 84-102.	2.0	16
22	Genetic Analysis of Antibody Response to Porcine Reproductive and Respiratory Syndrome Vaccination as an Indicator Trait for Reproductive Performance in Commercial Sows. <i>Frontiers in Genetics</i> , 2020, 11, 1011.	2.3	16
23	Genomic Analysis of IgG Antibody Response to Common Pathogens in Commercial Sows in Health-Challenged Herds. <i>Frontiers in Genetics</i> , 2020, 11, 593804.	2.3	4
24	Beef cattle that respond differently to fescue toxicosis have distinct gastrointestinal tract microbiota. <i>PLoS ONE</i> , 2020, 15, e0229192.	2.5	16
25	Evaluation of Resistance to Fescue Toxicosis in Purebred Angus Cattle Utilizing Animal Performance and Cytokine Response. <i>Toxins</i> , 2020, 12, 796.	3.4	6
26	High-Fat Diets Led to OTU-Level Shifts in Fecal Samples of Healthy Adult Dogs. <i>Frontiers in Microbiology</i> , 2020, 11, 564160.	3.5	9
27	Genetic improvement of livestock, from conventional breeding to biotechnological approaches. , 2020, , 393-405.		5
28	Beginning to offer drinking water at birth increases the species richness and the abundance of <i>Faecalibacterium</i> and <i>Bifidobacterium</i> in the gut of preweaned dairy calves. <i>Journal of Dairy Science</i> , 2020, 103, 4262-4274.	3.4	8
29	Genetic and genomic characterization of vulva size traits in Yorkshire and Landrace gilts. <i>BMC Genetics</i> , 2020, 21, 28.	2.7	3
30	Vaginal microbiota diverges in sows with low and high reproductive performance after porcine reproductive and respiratory syndrome vaccination. <i>Scientific Reports</i> , 2020, 10, 3046.	3.3	17
31	Evaluation of a commercial genetic test for fescue toxicosis in pregnant Angus beef cattle1. <i>Translational Animal Science</i> , 2020, 4, txaal81.	1.1	5
32	15 Host genetics of antibody response to PRRS vaccination and infection in growing pigs. <i>Journal of Animal Science</i> , 2020, 98, 19-19.	0.5	0
33	13 Genetic selection using pooled semen. <i>Journal of Animal Science</i> , 2020, 98, 6-6.	0.5	0
34	208 Do prediction equations with high R-squared in low sample size studies have high predictive ability?. <i>Journal of Animal Science</i> , 2020, 98, 71-71.	0.5	1
35	27 Genomic relationship between antibody response to porcine reproductive and respiratory syndrome virus vaccination and reproductive performance in commercial sows. <i>Journal of Animal Science</i> , 2020, 98, 20-21.	0.5	1
36	92 Phenotypic and genomic relationships between vulva score and reproductive performance in first-parity sows. <i>Journal of Animal Science</i> , 2020, 98, 27-28.	0.5	0

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37	20 Vaginal microbiome composition is associated with sow longevity. <i>Journal of Animal Science</i> , 2020, 98, 23-24.	0.5	0
38	PSX-41 Late-Breaking Abstract: Self-reported statistical training of graduate students associated with confidence in performing statistical analyses. <i>Journal of Animal Science</i> , 2020, 98, 358-358.	0.5	1
39	PSVII-8 miRNAs explain the variation in muscle and blood transcriptomes of beef calves born from dams with or without energy restriction during late gestation. <i>Journal of Animal Science</i> , 2020, 98, 165-165.	0.5	0
40	PSVII-9 Post transcriptional modifications may lead to changes in newborn goats' skeletal muscle proteome as a consequence of maternal feed restriction at different stages of gestation. <i>Journal of Animal Science</i> , 2020, 98, 167-168.	0.5	0
41	PSV-11 Accuracies of genomic prediction for reproductive traits in PRRSV-infected sows. <i>Journal of Animal Science</i> , 2020, 98, 163-163.	0.5	1
42	PSVII-2 Differentially expressed genes and their biological function in skeletal muscle of calves born from cows with or without protein supplementation during mid-gestation. <i>Journal of Animal Science</i> , 2020, 98, 165-166.	0.5	0
43	PSVII-10 Skeletal muscle transcriptome reveals gene expression differences in newborn goats' as a result of maternal feed restriction at different stages of gestation. <i>Journal of Animal Science</i> , 2020, 98, 167-167.	0.5	0
44	PSV-15 Genomic basis of reproductive performance in PRRSV-infected sows. <i>Journal of Animal Science</i> , 2020, 98, 162-163.	0.5	0
45	93 Genomic basis of antibody response to porcine reproductive and respiratory syndrome virus vaccination. <i>Journal of Animal Science</i> , 2020, 98, 28-28.	0.5	0
46	Relationship between the testis size in male pigs and reproductive traits in their progeny. <i>Livestock Science</i> , 2019, 228, 72-75.	1.6	0
47	PSIII-8 Genomic prediction of reproductive performance of commercial sows in health challenged herds. <i>Journal of Animal Science</i> , 2019, 97, 166-166.	0.5	0
48	PSIII-5 Accuracy of genomic prediction of antibody response to common infectious diseases in commercial sows. <i>Journal of Animal Science</i> , 2019, 97, 168-169.	0.5	0
49	PSIII-3 Genes and functions associated with tolerance to fescue toxicosis in Angus cows. <i>Journal of Animal Science</i> , 2019, 97, 167-167.	0.5	0
50	155 Evaluation of cytokine response as an indicator of genetic resistance to fescue toxicosis in purebred Angus cattle. <i>Journal of Animal Science</i> , 2019, 97, 45-46.	0.5	0
51	68 Genomic prediction accuracies of vulva size traits in Landrace and Yorkshire gilts. <i>Journal of Animal Science</i> , 2019, 97, 39-39.	0.5	0
52	375 Identification of QTL associated with antibody response to common infectious diseases in commercial sows. <i>Journal of Animal Science</i> , 2019, 97, 33-34.	0.5	0
53	Effect of maternal feed restriction in dairy goats at different stages of gestation on skeletal muscle development and energy metabolism of kids at the time of births. <i>Animal Reproduction Science</i> , 2019, 206, 46-59.	1.5	8
54	Genetic analysis of reproductive performance in sows during porcine reproductive and respiratory syndrome (PRRS) and porcine epidemic diarrhea (PED) outbreaks. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 22.	5.3	17

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55	Quantile Regression Applied to Genome-Enabled Prediction of Traits Related to Flowering Time in the Common Bean. <i>Agronomy</i> , 2019, 9, 796.	3.0	7
56	A Vision for Development and Utilization of High-Throughput Phenotyping and Big Data Analytics in Livestock. <i>Frontiers in Genetics</i> , 2019, 10, 1197.	2.3	64
57	The effect of a porcine reproductive and respiratory syndrome outbreak on genetic parameters and reaction norms for reproductive performance in pigs1. <i>Journal of Animal Science</i> , 2019, 97, 1101-1116.	0.5	5
58	Evaluating phosphorus release by phytase in diets fed to growing pigs that are not deficient in phosphorus1. <i>Journal of Animal Science</i> , 2019, 97, 327-337.	0.5	12
59	Using quantile regression methodology to evaluate changes in the shape of growth curves in pigs selected for increased feed efficiency based on residual feed intake. <i>Animal</i> , 2019, 13, 1009-1019.	3.3	7
60	Effect of lower-energy, higher-fiber diets on pigs divergently selected for residual feed intake when fed higher-energy, lower-fiber diets1. <i>Journal of Animal Science</i> , 2018, 96, 1221-1236.	0.5	16
61	Genomic prediction of piglet response to infection with one of two porcine reproductive and respiratory syndrome virus isolates. <i>Genetics Selection Evolution</i> , 2018, 50, 3.	3.0	8
62	Nellore bulls (<i>Bos taurus indicus</i>) with high residual feed intake have increased the expression of genes involved in oxidative phosphorylation in rumen epithelium. <i>Animal Feed Science and Technology</i> , 2018, 235, 77-86.	2.2	15
63	Impact of energy restriction during late gestation on the muscle and blood transcriptome of beef calves after preconditioning. <i>BMC Genomics</i> , 2018, 19, 702.	2.8	20
64	110 Evaluation of Angus Calf Performance Based on Dams Tolerance or Susceptibility to Fescue Toxicosis.. <i>Journal of Animal Science</i> , 2018, 96, 55-55.	0.5	1
65	Protein dietary efficiency and methane emission in cattle fed soybean meal treated with tannins. <i>Animal Production Science</i> , 2018, 58, 2233.	1.3	1
66	Effects of grain processing methods on the expression of genes involved in volatile fatty acid transport and pH regulation, and keratinization in rumen epithelium of beef cattle. <i>PLoS ONE</i> , 2018, 13, e0198963.	2.5	11
67	Quantile regression for genome-wide association study of flowering time-related traits in common bean. <i>PLoS ONE</i> , 2018, 13, e0190303.	2.5	22
68	Technical Note: A comparison among adipogenic induction protocols for dedifferentiated fat (DFAT) cells obtained from subcutaneous fat of pigs. <i>Livestock Science</i> , 2017, 199, 57-62.	1.6	1
69	Differences in skeletal muscle proteolysis in Nellore and Angus cattle might be driven by Calpastatin activity and not the abundance of Calpain/Calpastatin. <i>Journal of Agricultural Science</i> , 2017, 155, 1669-1676.	1.3	5
70	585 Expression of genes involved in energy metabolism and transport of volatile fatty acids and urea in rumen epithelium of bulls identified for high, medium, and low residual Feed intake. <i>Journal of Animal Science</i> , 2017, 95, 286-287.	0.5	0
71	Chromium, CLA, and ractopamine for finishing pigs1. <i>Journal of Animal Science</i> , 2017, 95, 4472-4480.	0.5	14
72	328 Effect of maternal nutrition and sex on skeletal muscle gene expression in Angus cattle during immune challenge. <i>Journal of Animal Science</i> , 2017, 95, 162-163.	0.5	0

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73	586 Grain processing effects on expression of genes involved in volatile fatty acid transport in rumen epithelium of beef cattle. <i>Journal of Animal Science</i> , 2017, 95, 287-287.	0.5	0
74	034 Biological evidence for genomic regions associated with host response to co-infection with PRRS virus and PCV2b in commercial nursery pigs. <i>Journal of Animal Science</i> , 2017, 95, 16-16.	0.5	0
75	Effect of a major quantitative trait locus for porcine reproductive and respiratory syndrome (PRRS) resistance on response to coinfection with PRRS virus and porcine circovirus type 2b (PCV2b) in commercial pigs, with or without prior vaccination for PRRS1. <i>Journal of Animal Science</i> , 2017, 95, 584-598.	0.5	11
76	Genomic regions associated with host response to porcine reproductive and respiratory syndrome vaccination and co-infection in nursery pigs. <i>BMC Genomics</i> , 2017, 18, 865.	2.8	18
77	033 Estimation of genetic parameters, genetic trends, and growth curve parameters of pigs selected for residual feed intake using quantile regression. <i>Journal of Animal Science</i> , 2017, 95, 15-16.	0.5	2
78	Independent Component Analysis (ICA) based-clustering of temporal RNA-seq data. <i>PLoS ONE</i> , 2017, 12, e0181195.	2.5	39
79	Regularized quantile regression for SNP marker estimation of pig growth curves. <i>Journal of Animal Science and Biotechnology</i> , 2017, 8, 59.	5.3	8
80	032 Genomic prediction accuracies using regularized quantile regression (RQR) methodology. <i>Journal of Animal Science</i> , 2017, 95, 14-15.	0.5	0
81	Genomewide association of piglet responses to infection with one of two porcine reproductive and respiratory syndrome virus isolates1. <i>Journal of Animal Science</i> , 2017, 95, 16-38.	0.5	26
82	113 Evaluating the Accuracy of a New Commercial Genetic Test for Response to Fescue Toxicosis in Cattle. <i>Journal of Animal Science</i> , 2016, 95, 55-56.	0.5	2
83	038 Effect of Genetic Response to Fescue Toxicity on Body Weight, Body Temperature, Hair Coat, Hair Shed and Body Condition Score in Angus Cows. <i>Journal of Animal Science</i> , 2016, 95, 18-19.	0.5	2
84	Effects of distillers' dried grains with solubles and soybean oil on dietary lipid, fiber, and amino acid digestibility in corn-based diets fed to growing pigs. <i>Journal of Animal Science</i> , 2016, 94, 1508-1519.	0.5	19
85	080 Evaluation of Angus Cattle Hair Coat Length and Its Associations with Tolerance to Fescue Toxicosis. <i>Journal of Animal Science</i> , 2016, 95, 40-40.	0.5	1
86	Genetic and genomic basis of antibody response to porcine reproductive and respiratory syndrome (PRRS) in gilts and sows. <i>Genetics Selection Evolution</i> , 2016, 48, 51.	3.0	24
87	Quantitative relationships between standardized total tract digestible phosphorus and total calcium intakes and their retention and excretion in growing pigs fed corn-â€soybean meal diets. <i>Journal of Animal Science</i> , 2015, 93, 2174-2182.	0.5	17
88	Identification of a putative quantitative trait nucleotide in guanylate binding protein 5 for host response to PRRS virus infection. <i>BMC Genomics</i> , 2015, 16, 412.	2.8	75
89	Response of pigs divergently selected for residual feed intake to experimental infection with the PRRS virus. <i>Livestock Science</i> , 2015, 177, 132-141.	1.6	34
90	Vaccination with a Porcine Reproductive and Respiratory Syndrome (PRRS) Modified Live Virus Vaccine Followed by Challenge with PRRS Virus and Porcine Circovirus Type 2 (PCV2) Protects against PRRS but Enhances PCV2 Replication and Pathogenesis Compared to Results for Nonvaccinated Cochallenged Controls. <i>Vaccine Journal</i> , 2015, 22, 1244-1254.	3.1	27

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91	Not All SCID Pigs Are Created Equally: Two Independent Mutations in the <i>Artemis</i> Gene Cause SCID in Pigs. <i>Journal of Immunology</i> , 2015, 195, 3171-3179.	0.8	43
92	Molecular Factors Underlying the Deposition of Intramuscular Fat and Collagen in Skeletal Muscle of Nellore and Angus Cattle. <i>PLoS ONE</i> , 2015, 10, e0139943.	2.5	52
93	Relationships among dietary fiber components and the digestibility of energy, dietary fiber, and amino acids and energy content of nine corn coproducts fed to growing pigs1. <i>Journal of Animal Science</i> , 2014, 92, 4505-4517.	0.5	52
94	Nutritional plans of digestible lysine for growing-finishing gilts. <i>Revista Brasileira De Zootecnia</i> , 2014, 43, 457-463.	0.8	1
95	Genetic analysis of reproductive traits and antibody response in a PRRS outbreak herd1. <i>Journal of Animal Science</i> , 2014, 92, 2905-2921.	0.5	58
96	Maternal overnutrition enhances mRNA expression of adipogenic markers and collagen deposition in skeletal muscle of beef cattle fetuses1. <i>Journal of Animal Science</i> , 2014, 92, 3846-3854.	0.5	36
97	Effects of maternal nutrition on development of gastrointestinal tract of bovine fetus at different stages of gestation. <i>Livestock Science</i> , 2013, 153, 60-65.	1.6	30
98	Effects of pregnancy and feeding level on carcass and meat quality traits of Nellore cows. <i>Meat Science</i> , 2013, 94, 139-144.	5.5	9
99	Single nucleotide polymorphisms and haplotypes associated with feed efficiency in beef cattle. <i>BMC Genetics</i> , 2013, 14, 94.	2.7	52
100	Lisina digestÃvel para leitoas em fase de crescimento. <i>Ciencia Rural</i> , 2013, 43, 871-877.	0.5	0
101	Enhancement of adipogenesis and fibrogenesis in skeletal muscle of Wagyu compared with Angus cattle. <i>Journal of Animal Science</i> , 2013, 91, 2938-2946.	0.5	69
102	Bivariate Genome-Wide Association Analysis of the Growth and Intake Components of Feed Efficiency. <i>PLoS ONE</i> , 2013, 8, e78530.	2.5	28
103	Identification and characterization of alternative exon usage linked glioblastoma multiforme survival. <i>BMC Medical Genomics</i> , 2012, 5, 59.	1.5	21
104	Influence of dental carcass maturity on carcass traits and meat quality of Nellore bulls. <i>Meat Science</i> , 2011, 88, 441-446.	5.5	41
105	Candidate gene expression and intramuscular fat content in pigs. <i>Journal of Animal Breeding and Genetics</i> , 2011, 128, 28-34.	2.0	62
106	Performance and meat quality traits of beef heifers fed with two levels of concentrate and ruminally undegradable protein. <i>Tropical Animal Health and Production</i> , 2011, 43, 877-886.	1.4	13
107	Cell cycle and aging, morphogenesis, and response to stimuli genes are individualized biomarkers of glioblastoma progression and survival. <i>BMC Medical Genomics</i> , 2011, 4, 49.	1.5	86
108	Additive and multiplicative genome-wide association models identify genes associated with growth. , 2011, , .		0

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109	Genetic diversity of captive spotted paca (Agouti paca) from south east Brazil assessed by the RAPD-PCR technique. Revista Brasileira De Zootecnia, 2010, 39, 268-272.	0.8	4
110	Differential expression of genes in follicular cells of swines. Revista Brasileira De Zootecnia, 2010, 39, 1023-1028.	0.8	3