

Roberto Carvalheiro

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

2,636
citations

185998

28
h-index

243296

44
g-index

118
all docs

118
docs citations

118
times ranked

1955
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic Prediction Accuracy for Resistance Against <i>Piscirickettsia salmonis</i> in Farmed Rainbow Trout. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 719-726.	0.8	122
2	Genome-wide association study for birth weight in Nelore cattle points to previously described orthologous genes affecting human and bovine height. <i>BMC Genetics</i> , 2013, 14, 52.	2.7	111
3	Study of whole genome linkage disequilibrium in Nelore cattle. <i>BMC Genomics</i> , 2013, 14, 305.	1.2	106
4	Accuracy of genotype imputation in Nelore cattle. <i>Genetics Selection Evolution</i> , 2014, 46, 69.	1.2	86
5	Genome-Wide Association Study for Indicator Traits of Sexual Precocity in Nelore Cattle. <i>PLoS ONE</i> , 2016, 11, e0159502.	1.1	82
6	Accuracy of genomic predictions in <i>Bos indicus</i> (Nelore) cattle. <i>Genetics Selection Evolution</i> , 2014, 46, 17.	1.2	77
7	Genome-Wide Association Study of Meat Quality Traits in Nelore Cattle. <i>PLoS ONE</i> , 2016, 11, e0157845.	1.1	76
8	Single-step genomic evaluation improves accuracy of breeding value predictions for resistance to infectious pancreatic necrosis virus in rainbow trout. <i>Genomics</i> , 2019, 111, 127-132.	1.3	74
9	A comparison of statistical methods for genomic selection in a mice population. <i>BMC Genetics</i> , 2012, 13, 100.	2.7	72
10	Bayesian genome-wide association analysis for body weight in farmed Atlantic salmon (<i>Salmo</i>)	0.6	70
11	Linkage disequilibrium levels in <i>Bos indicus</i> and <i>Bos taurus</i> cattle using medium and high density SNP chip data and different minor allele frequency distributions. <i>Livestock Science</i> , 2014, 166, 121-132.	0.6	69
12	Assessment of autozygosity in Nelore cows (<i>Bos indicus</i>) through high-density SNP genotypes. <i>Frontiers in Genetics</i> , 2015, 6, 5.	1.1	69
13	Genome-wide CNV analysis reveals variants associated with growth traits in <i>Bos indicus</i> . <i>BMC Genomics</i> , 2016, 17, 419.	1.2	69
14	Genome-wide association between single nucleotide polymorphisms with beef fatty acid profile in Nelore cattle using the single step procedure. <i>BMC Genomics</i> , 2016, 17, 213.	1.2	66
15	Accuracy of genotype imputation and genomic predictions in a two-generation farmed Atlantic salmon population using high-density and low-density SNP panels. <i>Aquaculture</i> , 2018, 491, 147-154.	1.7	56
16	Accuracies of genomic prediction of feed efficiency traits using different prediction and validation methods in an experimental Nelore cattle population. <i>Journal of Animal Science</i> , 2016, 94, 3613-3623.	0.2	55
17	Sliding window haplotype approaches overcome single SNP analysis limitations in identifying genes for meat tenderness in Nelore cattle. <i>BMC Genetics</i> , 2019, 20, 8.	2.7	53
18	Genomic prediction of breeding values for carcass traits in Nelore cattle. <i>Genetics Selection Evolution</i> , 2016, 48, 7.	1.2	48

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19	A PLAG1 mutation contributed to stature recovery in modern cattle. <i>Scientific Reports</i> , 2017, 7, 17140.	1.6	42
20	Population Genomic Structure and Genome-Wide Linkage Disequilibrium in Farmed Atlantic Salmon (<i>Salmo salar</i> L.) Using Dense SNP Genotypes. <i>Frontiers in Genetics</i> , 2018, 9, 649.	1.1	38
21	Genome-wide association study provides strong evidence of genes affecting the reproductive performance of Nelore beef cows. <i>PLoS ONE</i> , 2017, 12, e0178551.	1.1	36
22	Unraveling genetic sensitivity of beef cattle to environmental variation under tropical conditions. <i>Genetics Selection Evolution</i> , 2019, 51, 29.	1.2	35
23	Genome-Wide Mapping of Loci Explaining Variance in Scrotal Circumference in Nelore Cattle. <i>PLoS ONE</i> , 2014, 9, e88561.	1.1	33
24	Genome-wide association study of reproductive traits in Nelore heifers using Bayesian inference. <i>Genetics Selection Evolution</i> , 2015, 47, 67.	1.2	32
25	Accuracy of genomic predictions in Gyr (<i>Bos indicus</i>) dairy cattle. <i>Journal of Dairy Science</i> , 2017, 100, 5479-5490.	1.4	32
26	Genetic parameter estimates for carcass traits and visual scores including or not genomic information1. <i>Journal of Animal Science</i> , 2016, 94, 1821-1826.	0.2	31
27	Genome scan for postmortem carcass traits in Nelore cattle1. <i>Journal of Animal Science</i> , 2016, 94, 4087-4095.	0.2	31
28	Genetics and genomics of uniformity and resilience in livestock and aquaculture species: A review. <i>Journal of Animal Breeding and Genetics</i> , 2020, 137, 263-280.	0.8	30
29	Genome-wide scan highlights the role of candidate genes on phenotypic plasticity for age at first calving in Nelore heifers. <i>Scientific Reports</i> , 2020, 10, 6481.	1.6	30
30	Genotype × environment interaction for age at first calving, scrotal circumference, and yearling weight in Nelore cattle using reaction norms in multitrait random regression models. <i>Journal of Animal Science</i> , 2015, 93, 1503-1510.	0.2	29
31	Strategies for single nucleotide polymorphism (SNP) genotyping to enhance genotype imputation in Gyr (<i>Bos indicus</i>) dairy cattle: Comparison of commercially available SNP chips. <i>Journal of Dairy Science</i> , 2015, 98, 4969-4989.	1.4	29
32	Low levels of taurine introgression in the current Brazilian Nelore and Gir indicine cattle populations. <i>Genetics Selection Evolution</i> , 2015, 47, 31.	1.2	29
33	Genetic variability of residual variance of production traits in Nelore beef cattle. <i>Livestock Science</i> , 2011, 142, 164-169.	0.6	25
34	Genetic control of temperament traits across species: association of autism spectrum disorder risk genes with cattle temperament. <i>Genetics Selection Evolution</i> , 2020, 52, 51.	1.2	25
35	Genetic and environmental heterogeneity of residual variance of weight traits in Nelore beef cattle. <i>Genetics Selection Evolution</i> , 2012, 44, 19.	1.2	23
36	Genome-wide association study for growth traits in Nelore cattle. <i>Animal</i> , 2018, 12, 1358-1362.	1.3	23

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37	Association of Copy Number Variation at Intron 3 of HMGA2 With Navel Length in <i>Bos indicus</i> . <i>Frontiers in Genetics</i> , 2018, 9, 627.	1.1	23
38	Genomic selection for meat quality traits in Nelore cattle. <i>Meat Science</i> , 2019, 148, 32-37.	2.7	23
39	Pleiotropic Genes Affecting Carcass Traits in <i>Bos indicus</i> (Nelore) Cattle Are Modulators of Growth. <i>PLoS ONE</i> , 2016, 11, e0158165.	1.1	23
40	Principal component analysis of breeding values for growth and reproductive traits and genetic association with adult size in beef cattle ¹ . <i>Journal of Animal Science</i> , 2016, 94, 5014-5022.	0.2	21
41	Reaction norm for yearling weight in beef cattle using single-step genomic evaluation ¹ . <i>Journal of Animal Science</i> , 2018, 96, 27-34.	0.2	21
42	Multitrait meta-analysis identified genomic regions associated with sexual precocity in tropical beef cattle ¹ . <i>Journal of Animal Science</i> , 2018, 96, 4087-4099.	0.2	21
43	Assessing the value of phenotypic information from non-genotyped animals for QTL mapping of complex traits in real and simulated populations. <i>BMC Genetics</i> , 2016, 17, 89.	2.7	20
44	Comparative Genomic Analysis of Three Salmonid Species Identifies Functional Candidate Genes Involved in Resistance to the Intracellular Bacterium <i>Piscirickettsia salmonis</i> . <i>Frontiers in Genetics</i> , 2019, 10, 665.	1.1	20
45	Whole-genome sequencing provides new insights into genetic mechanisms of tropical adaptation in Nelore (<i>Bos primigenius indicus</i>). <i>Scientific Reports</i> , 2020, 10, 9412.	1.6	20
46	Genetic control of residual variance of yearling weight in Nelore beef cattle. <i>Journal of Animal Science</i> , 2017, 95, 1425-1433.	0.2	18
47	Unravelling biological biotypes for growth, visual score and reproductive traits in Nelore cattle via principal component analysis. <i>Livestock Science</i> , 2018, 217, 37-43.	0.6	18
48	Genomic predictions combining SNP markers and copy number variations in Nelore cattle. <i>BMC Genomics</i> , 2018, 19, 441.	1.2	18
49	Strategies for genotype imputation in composite beef cattle. <i>BMC Genetics</i> , 2015, 16, 99.	2.7	17
50	Imputation accuracy to whole-genome sequence in Nelore cattle. <i>Genetics Selection Evolution</i> , 2021, 53, 27.	1.2	17
51	Optimum contribution selection using differential evolution. <i>Revista Brasileira De Zootecnia</i> , 2010, 39, 1429-1436.	0.3	16
52	Evaluation of mature cow weight: Genetic correlations with traits used in selection indices, correlated responses, and genetic trends in Nelore cattle. <i>Journal of Animal Science</i> , 2013, 91, 20-28.	0.2	15
53	Genetic parameter estimates for temperament, heifer rebreeding, and stayability in Nelore cattle. <i>Livestock Science</i> , 2017, 206, 45-50.	0.6	15
54	Prediction of meat quality traits in Nelore cattle by near-infrared reflectance spectroscopy ¹ . <i>Journal of Animal Science</i> , 2018, 96, 4229-4237.	0.2	15

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55	Use of ridge regression for the prediction of early growth performance in crossbred calves. <i>Genetics and Molecular Biology</i> , 2007, 30, 536-544.	0.6	14
56	Mate selection in aquaculture breeding using differential evolution algorithm. <i>Aquaculture Research</i> , 2017, 48, 5490-5497.	0.9	13
57	Genome-wide association study using haplotype alleles for the evaluation of reproductive traits in Nelore cattle. <i>PLoS ONE</i> , 2018, 13, e0201876.	1.1	13
58	RAPID COMMUNICATION: Multi-breed validation study unraveled genomic regions associated with puberty traits segregating across tropically adapted breeds. <i>Journal of Animal Science</i> , 2019, 97, 3027-3033.	0.2	13
59	Genome Association Study for Visual Scores in Nelore Cattle Measured at Weaning. <i>BMC Genomics</i> , 2019, 20, 150.	1.2	13
60	Genome-wide prediction for complex traits under the presence of dominance effects in simulated populations using GBLUP and machine learning methods. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	13
61	Comparison of selection criteria for pre-weaning growth traits of Nelore cattle. <i>Livestock Science</i> , 2004, 86, 163-167.	1.2	12
62	Genetic effects on preweaning weight gain of Nelore-Hereford calves according to different models and estimation methods. <i>Journal of Animal Science</i> , 2006, 84, 2925-2933.	0.2	12
63	Genetic relationship among reproductive traits in Nelore cattle. <i>Animal</i> , 2015, 9, 760-765.	1.3	11
64	Comparison of models for the genetic evaluation of reproductive traits with censored data in Nelore cattle. <i>Journal of Animal Science</i> , 2016, 94, 2297-2306.	0.2	11
65	Genomic regions underlying uniformity of yearling weight in Nelore cattle evaluated under different response variables. <i>BMC Genomics</i> , 2018, 19, 619.	1.2	11
66	Genomic analysis of stayability in Nelore cattle. <i>PLoS ONE</i> , 2017, 12, e0179076.	1.1	11
67	Estimativas de efeitos genéticos em bezerros cruzados por diferentes modelos e métodos de estimação. <i>Revista Brasileira De Zootecnia</i> , 2006, 35, 1020-1027.	0.3	11
68	Sustainable Intensification of Beef Production in the Tropics: The Role of Genetically Improving Sexual Precocity of Heifers. <i>Animals</i> , 2022, 12, 174.	1.0	11
69	Genomics applied to livestock and aquaculture breeding. <i>Evolutionary Applications</i> , 2022, 15, 517-522.	1.5	11
70	Imputation of non-genotyped individuals using genotyped progeny in Nelore, a <i>Bos indicus</i> cattle breed. <i>Livestock Science</i> , 2014, 166, 176-189.	0.6	10
71	Body condition score of Nelore beef cows: a heritable measure to improve the selection of reproductive and maternal traits. <i>Animal</i> , 2015, 9, 1278-1284.	1.3	10
72	Efeitos da Heterogeneidade de Variância Residual entre Grupos de Contemporâneos na Avaliação Genética de Bovinos de Corte. <i>Revista Brasileira De Zootecnia</i> , 2002, 31, 1680-1688.	0.3	10

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73	Genome-wide association study and functional analysis of feet and leg conformation traits in Nelore cattle. <i>Journal of Animal Science</i> , 2018, 96, 1617-1627.	0.2	9
74	Genetic and genomic analyses of testicular hypoplasia in Nelore cattle. <i>PLoS ONE</i> , 2019, 14, e0211159.	1.1	9
75	Mate selection allows changing the genetic variability of the progeny while optimizing genetic response and controlling inbreeding. <i>Aquaculture</i> , 2018, 495, 409-414.	1.7	8
76	Prediction of genomic breeding values for reproductive traits in Nelore heifers. <i>Theriogenology</i> , 2019, 125, 12-17.	0.9	8
77	Development of a SNP linkage map and genome-wide association study for resistance to <i>Aeromonas hydrophila</i> in pacu (<i>Piaractus mesopotamicus</i>). <i>BMC Genomics</i> , 2020, 21, 672.	1.2	8
78	Genotype by environment interaction and genetic parameters for growth traits in the Neotropical fish pacu (<i>Piaractus mesopotamicus</i>). <i>Aquaculture</i> , 2021, 530, 735933.	1.7	8
79	Signatures of selection in Nelore cattle revealed by whole-genome sequencing data. <i>Genomics</i> , 2022, 114, 110304.	1.3	8
80	Genetic parameters for an alternative criterion to improve productive longevity of Nelore cows ¹ . <i>Journal of Animal Science</i> , 2012, 90, 4209-4216.	0.2	7
81	Meta-analysis across Nelore cattle populations identifies common metabolic mechanisms that regulate feed efficiency-related traits. <i>BMC Genomics</i> , 2022, 23, .	1.2	7
82	Uncovering Sub-Structure and Genomic Profiles in Across-Countries Subpopulations of Angus Cattle. <i>Scientific Reports</i> , 2020, 10, 8770.	1.6	6
83	Application of a novel 50K SNP genotyping array to assess the genetic diversity and linkage disequilibrium in a farmed Pacific white shrimp (<i>Litopenaeus vannamei</i>) population. <i>Aquaculture Reports</i> , 2021, 20, 100691.	0.7	6
84	Accuracy of genotype imputation to whole genome sequencing level using different populations of Nile tilapia. <i>Aquaculture</i> , 2022, 551, 737947.	1.7	6
85	Influence of X-chromosome markers on reproductive traits of beef cattle. <i>Livestock Science</i> , 2019, 220, 152-157.	0.6	5
86	Accounting for population structure in selective cow genotyping strategies. <i>Journal of Animal Breeding and Genetics</i> , 2019, 136, 23-39.	0.8	5
87	Herd-of-origin effect on the post-weaning performance of centrally tested Nelore beef cattle. <i>Tropical Animal Health and Production</i> , 2014, 46, 1235-1241.	0.5	4
88	Genetic analysis of the temperament of Nelore cattle using linear and threshold models. <i>Animal</i> , 2015, 9, 388-394.	1.3	4
89	Genetic analysis of feet and leg conformation traits in Nelore cattle ¹ . <i>Journal of Animal Science</i> , 2017, 95, 2379-2384.	0.2	4
90	Genomic regions associated with principal components for growth, visual score and reproductive traits in Nelore cattle. <i>Livestock Science</i> , 2020, 233, 103936.	0.6	4

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91	Investigating potential causal relationships among carcass and meat quality traits using structural equation model in Nelore cattle. <i>Meat Science</i> , 2022, 187, 108771.	2.7	4
92	Current applications and perspectives of genomic selection in <i>Bos indicus</i> (Nelore) cattle. <i>Livestock Science</i> , 2022, 263, 105001.	0.6	4
93	Dois critérios de seleção na pré-desmama em bovinos da raça Gir. 2. Efeito na classificação dos animais. <i>Revista Brasileira De Zootecnia</i> , 2005, 34, 816-826.	0.3	3
94	Comparação de critérios de seleção para precocidade de crescimento em bovinos da raça Guzerá. <i>Revista Brasileira De Zootecnia</i> , 2009, 38, 284-291.	0.3	3
95	Acasalamento dirigido para aumentar a produção de animais geneticamente superiores e reduzir a variabilidade da progênie em bovinos. <i>Revista Brasileira De Zootecnia</i> , 2009, 38, 1201-1204.	0.3	3
96	Analysis of genetic correlations of hip height with selection indices and mature weight in Nelore cattle. <i>Journal of Applied Genetics</i> , 2013, 54, 89-95.	1.0	3
97	Contribuição genética tríplice aplicada à seleção de ovinos Santa Inês. <i>Pesquisa Agropecuária Brasileira</i> , 2016, 51, 745-750.	0.9	3
98	Evaluation of longevity modeling censored records in Nelore. <i>Animal</i> , 2017, 11, 2113-2119.	1.3	3
99	Reproductive performance of cows and genetic correlation with weight gains and principal components of traits used in selection of Nelore cattle. <i>Livestock Science</i> , 2019, 229, 77-84.	0.6	3
100	Mate selection provides similar genetic progress and average inbreeding than optimum contribution selection in the long-term. <i>Aquaculture</i> , 2020, 526, 735376.	1.7	3
101	Dois critérios de seleção na pré-desmama em bovinos da raça Gir. 1. Estimativas de parâmetros genéticos. <i>Revista Brasileira De Zootecnia</i> , 2005, 34, 807-815.	0.3	3
102	Trait-specific long-term consequences of genomic selection in beef cattle. <i>Genetica</i> , 2018, 146, 85-99.	0.5	2
103	Across-breed validation study confirms and identifies new loci associated with sexual precocity in Brahman and Nelore cattle. <i>Journal of Animal Breeding and Genetics</i> , 2020, 137, 139-154.	0.8	2
104	Comparison of GWA statistical methods for traits under different genetic structures: A simulation study. <i>Livestock Science</i> , 2020, 241, 104213.	0.6	2
105	Effect of harvest weight and its uniformity on survival in <i>Litopenaeus vannamei</i> reared in different systems. <i>Aquaculture</i> , 2021, 531, 735891.	1.7	1
106	Comparison of methods for predicting genomic breeding values for growth traits in Nelore cattle. <i>Tropical Animal Health and Production</i> , 2021, 53, 349.	0.5	1
107	Association Mapping for Sugarcane Quality Traits at Three Harvest Times. <i>Sugar Tech</i> , 0, , 1.	0.9	1
108	Effect of quality control, density and allele frequency of markers on the accuracy of genomic prediction for complex traits in Nelore cattle. <i>Animal Production Science</i> , 2019, 59, 48.	0.6	1

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109	Uso combinado de sÃ³men sexado e acasalamento dirigido sobre uma populaÃ§Ã£o de bovinos de corte submetida a seleÃ§Ã£o: estudo de simulaÃ§Ã£o. Revista Brasileira De Zootecnia, 2009, 38, 2368-2374.	0.3	1
110	How Bioinformatics Enables Livestock Applied Sciences in the Genomic Era. Lecture Notes in Computer Science, 2012, , 192-201.	1.0	1
111	Alternative adjustment of scrotal circumference for growth traits in Nellore cattle. Revista Brasileira De Zootecnia, 2020, 49, .	0.3	1
112	Development of genomic predictions for Angus cattle in Brazil incorporating genotypes from related American sires. Journal of Animal Science, 2022, , .	0.2	1
113	A Random Forest-Based Genome-Wide Scan Reveals Fertility-Related Candidate Genes and Potential Inter-Chromosomal Epistatic Regions Associated With Age at First Calving in Nellore Cattle. Frontiers in Genetics, 2022, 13, .	1.1	1