

Roberto Carvalho

List of Publications by Citations

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108
papers

1,600
citations

22
h-index

34
g-index

118
ext. papers

2,264
ext. citations

2.8
avg, IF

4.63
L-index

#	Paper	IF	Citations
108	Genome-wide association study for birth weight in Nellore cattle points to previously described orthologous genes affecting human and bovine height. <i>BMC Genetics</i> , 2013 , 14, 52	2.6	83
107	Study of whole genome linkage disequilibrium in Nellore cattle. <i>BMC Genomics</i> , 2013 , 14, 305	4.5	80
106	Accuracy of genomic predictions in Bos indicus (Nellore) cattle. <i>Genetics Selection Evolution</i> , 2014 , 46, 17	4.9	60
105	Accuracy of genotype imputation in Nelore cattle. <i>Genetics Selection Evolution</i> , 2014 , 46, 69	4.9	51
104	Genomic Prediction Accuracy for Resistance Against in Farmed Rainbow Trout. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 719-726	3.2	50
103	Genome-wide association between single nucleotide polymorphisms with beef fatty acid profile in Nellore cattle using the single step procedure. <i>BMC Genomics</i> , 2016 , 17, 213	4.5	50
102	Linkage disequilibrium levels in Bos indicus and Bos taurus cattle using medium and high density SNP chip data and different minor allele frequency distributions. <i>Livestock Science</i> , 2014 , 166, 121-132	1.7	49
101	Genome-Wide Association Study for Indicator Traits of Sexual Precocity in Nellore Cattle. <i>PLoS ONE</i> , 2016 , 11, e0159502	3.7	49
100	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	4.3	49
99	Genome-Wide Association Study of Meat Quality Traits in Nellore Cattle. <i>PLoS ONE</i> , 2016 , 11, e0157845	3.7	47
98	A comparison of statistical methods for genomic selection in a mice population. <i>BMC Genetics</i> , 2012 , 13, 100	2.6	44
97	Genome-wide CNV analysis reveals variants associated with growth traits in Bos indicus. <i>BMC Genomics</i> , 2016 , 17, 419	4.5	44
96	Assessment of autozygosity in Nellore cows (Bos indicus) through high-density SNP genotypes. <i>Frontiers in Genetics</i> , 2015 , 6, 5	4.5	43
95	Bayesian genome-wide association analysis for body weight in farmed Atlantic salmon (<i>Salmo salar</i> L.). <i>Animal Genetics</i> , 2017 , 48, 698-703	2.5	41
94	Genomic prediction of breeding values for carcass traits in Nellore cattle. <i>Genetics Selection Evolution</i> , 2016 , 48, 7	4.9	40
93	A PLAG1 mutation contributed to stature recovery in modern cattle. <i>Scientific Reports</i> , 2017 , 7, 17140	4.9	32
92	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	0.7	31

91	Genome-wide mapping of loci explaining variance in scrotal circumference in Nellore cattle. <i>PLoS ONE</i> , 2014 , 9, e88561	3.7	29
90	Genome-wide association study of reproductive traits in Nellore heifers using Bayesian inference. <i>Genetics Selection Evolution</i> , 2015 , 47, 67	4.9	27
89	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	4.4	27
88	Genome-wide association study provides strong evidence of genes affecting the reproductive performance of Nellore beef cows. <i>PLoS ONE</i> , 2017 , 12, e0178551	3.7	23
87	Genome scan for postmortem carcass traits in Nellore cattle. <i>Journal of Animal Science</i> , 2016 , 94, 4087-4095		22
86	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, 4969-89	4	21
85	Genetic variability of residual variance of production traits in Nellore beef cattle. <i>Livestock Science</i> , 2011 , 142, 164-169	1.7	21
84	Genetic parameter estimates for carcass traits and visual scores including or not genomic information. <i>Journal of Animal Science</i> , 2016 , 94, 1821-6	0.7	21
83	Low levels of taurine introgression in the current Brazilian Nelore and Gir indicine cattle populations. <i>Genetics Selection Evolution</i> , 2015 , 47, 31	4.9	20
82	Unraveling genetic sensitivity of beef cattle to environmental variation under tropical conditions. <i>Genetics Selection Evolution</i> , 2019 , 51, 29	4.9	20
81	Genotype \times environment interaction for age at first calving, scrotal circumference, and yearling weight in Nellore cattle using reaction norms in multitrait random regression models. <i>Journal of Animal Science</i> , 2015 , 93, 1503-10	0.7	20
80	Accuracy of genomic predictions in Gyr (<i>Bos indicus</i>) dairy cattle. <i>Journal of Dairy Science</i> , 2017 , 100, 5479-5490	1.9	19
79	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	2.6	19
78	Genetic and environmental heterogeneity of residual variance of weight traits in Nellore beef cattle. <i>Genetics Selection Evolution</i> , 2012 , 44, 19	4.9	19
77	Population Genomic Structure and Genome-Wide Linkage Disequilibrium in Farmed Atlantic Salmon (L.) Using Dense SNP Genotypes. <i>Frontiers in Genetics</i> , 2018 , 9, 649	4.5	18
76	Genome-wide scan highlights the role of candidate genes on phenotypic plasticity for age at first calving in Nellore heifers. <i>Scientific Reports</i> , 2020 , 10, 6481	4.9	16
75	Pleiotropic Genes Affecting Carcass Traits in <i>Bos indicus</i> (Nellore) Cattle Are Modulators of Growth. <i>PLoS ONE</i> , 2016 , 11, e0158165	3.7	16
74	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, 20-8	0.7	15

73	Strategies for genotype imputation in composite beef cattle. <i>BMC Genetics</i> , 2015 , 16, 99	2.6	14
72	Principal component analysis of breeding values for growth and reproductive traits and genetic association with adult size in beef cattle. <i>Journal of Animal Science</i> , 2016 , 94, 5014-5022	0.7	14
71	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	2.9	13
70	Reaction norm for yearling weight in beef cattle using single-step genomic evaluation. <i>Journal of Animal Science</i> , 2018 , 96, 27-34	0.7	12
69	Genomic selection for meat quality traits in Nelore cattle. <i>Meat Science</i> , 2019 , 148, 32-37	6.4	12
68	Genome-wide association study for growth traits in Nelore cattle. <i>Animal</i> , 2018 , 12, 1358-1362	3.1	11
67	Comparative Genomic Analysis of Three Salmonid Species Identifies Functional Candidate Genes Involved in Resistance to the Intracellular Bacterium. <i>Frontiers in Genetics</i> , 2019 , 10, 665	4.5	11
66	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	2.6	11
65	Prediction of meat quality traits in Nelore cattle by near-infrared reflectance spectroscopy. <i>Journal of Animal Science</i> , 2018 , 96, 4229-4237	0.7	10
64	Genetic control of residual variance of yearling weight in Nellore beef cattle. <i>Journal of Animal Science</i> , 2017 , 95, 1425-1433	0.7	10
63	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, 2925-33	0.7	10
62	Estimativas de efeitos genéticos em bezerros cruzados por diferentes modelos e métodos de estimação. <i>Revista Brasileira De Zootecnia</i> , 2006 , 35, 1020-1027	1.2	10
61	Comparison of models for the genetic evaluation of reproductive traits with censored data in Nellore cattle. <i>Journal of Animal Science</i> , 2016 , 94, 2297-306	0.7	10
60	Multitrait meta-analysis identified genomic regions associated with sexual precocity in tropical beef cattle. <i>Journal of Animal Science</i> , 2018 , 96, 4087-4099	0.7	9
59	Imputation of non-genotyped individuals using genotyped progeny in Nellore, a <i>Bos indicus</i> cattle breed. <i>Livestock Science</i> , 2014 , 166, 176-189	1.7	9
58	Optimum contribution selection using differential evolution. <i>Revista Brasileira De Zootecnia</i> , 2010 , 39, 1429-1436	1.2	9
57	Use of ridge regression for the prediction of early growth performance in crossbred calves. <i>Genetics and Molecular Biology</i> , 2007 , 30, 536-544	2	9
56	Comparison of selection criteria for pre-weaning growth traits of Nelore cattle. <i>Livestock Science</i> , 2004 , 86, 163-167		9

55	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	4.9	9
54	Association of Copy Number Variation at Intron 3 of With Navel Length in. <i>Frontiers in Genetics</i> , 2018 , 9, 627	4.5	9
53	Whole-genome sequencing provides new insights into genetic mechanisms of tropical adaptation in Nellore (<i>Bos primigenius indicus</i>). <i>Scientific Reports</i> , 2020 , 10, 9412	4.9	8
52	Genomic predictions combining SNP markers and copy number variations in Nellore cattle. <i>BMC Genomics</i> , 2018 , 19, 441	4.5	8
51	Mate selection in aquaculture breeding using differential evolution algorithm. <i>Aquaculture Research</i> , 2017 , 48, 5490-5497	1.9	7
50	Genetic relationship among reproductive traits in Nellore cattle. <i>Animal</i> , 2015 , 9, 760-5	3.1	7
49	Body condition score of Nellore beef cows: a heritable measure to improve the selection of reproductive and maternal traits. <i>Animal</i> , 2015 , 9, 1278-84	3.1	7
48	Genetic parameters for an alternative criterion to improve productive longevity of Nellore cows. <i>Journal of Animal Science</i> , 2012 , 90, 4209-16	0.7	7
47	Genomic analysis of stayability in Nellore cattle. <i>PLoS ONE</i> , 2017 , 12, e0179076	3.7	7
46	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	1.2	7
45	Prediction of genomic breeding values for reproductive traits in Nellore heifers. <i>Theriogenology</i> , 2019 , 125, 12-17	2.8	7
44	Unravelling biological biotypes for growth, visual score and reproductive traits in Nellore cattle via principal component analysis. <i>Livestock Science</i> , 2018 , 217, 37-43	1.7	7
43	Genetic parameter estimates for temperament, heifer rebreeding, and stayability in Nellore cattle. <i>Livestock Science</i> , 2017 , 206, 45-50	1.7	6
42	Genetic and genomic analyses of testicular hypoplasia in Nellore cattle. <i>PLoS ONE</i> , 2019 , 14, e0211159	3.7	6
41	RAPID COMMUNICATION: Multi-breed validation study unraveled genomic regions associated with puberty traits segregating across tropically adapted breeds ¹ . <i>Journal of Animal Science</i> , 2019 , 97, 3027-3033	0.7	6
40	Genome-wide association study using haplotype alleles for the evaluation of reproductive traits in Nellore cattle. <i>PLoS ONE</i> , 2018 , 13, e0201876	3.7	6
39	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,	0.7	5
38	Mate selection allows changing the genetic variability of the progeny while optimizing genetic response and controlling inbreeding. <i>Aquaculture</i> , 2018 , 495, 409-414	4.4	5

37	Genomic regions underlying uniformity of yearling weight in Nelore cattle evaluated under different response variables. <i>BMC Genomics</i> , 2018 , 19, 619	4.5	5
36	Genome Association Study for Visual Scores in Nelore Cattle Measured at Weaning. <i>BMC Genomics</i> , 2019 , 20, 150	4.5	4
35	Genetic analysis of feet and leg conformation traits in Nelore cattle. <i>Journal of Animal Science</i> , 2017 , 95, 2379-2384	0.7	4
34	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	4.4	4
33	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	1.7	3
32	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	0.7	3
31	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	2.5	3
30	Herd-of-origin effect on the post-weaning performance of centrally tested Nelore beef cattle. <i>Tropical Animal Health and Production</i> , 2014 , 46, 1235-41	1.7	3
29	Acasalamento dirigido para aumentar a produ de animais geneticamente superiores e reduzir a variabilidade da progie em bovinos. <i>Revista Brasileira De Zootecnia</i> , 2009 , 38, 1201-1204	1.2	3
28	Dois critios de sele na prdesmama em bovinos da ra Gir. 2. Efeito na classifica dos animais. <i>Revista Brasileira De Zootecnia</i> , 2005 , 34, 816-826	1.2	3
27	Dois critios de sele na prdesmama em bovinos da ra Gir. 1. Estimativas de parmetros genticos. <i>Revista Brasileira De Zootecnia</i> , 2005 , 34, 807-815	1.2	3
26	Imputation accuracy to whole-genome sequence in Nelore cattle. <i>Genetics Selection Evolution</i> , 2021 , 53, 27	4.9	3
25	Influence of X-chromosome markers on reproductive traits of beef cattle. <i>Livestock Science</i> , 2019 , 220, 152-157	1.7	3
24	Accounting for population structure in selective cow genotyping strategies. <i>Journal of Animal Breeding and Genetics</i> , 2019 , 136, 23-39	2.9	3
23	Evaluation of longevity modeling censored records in Nelore. <i>Animal</i> , 2017 , 11, 2113-2119	3.1	2
22	Genomic regions associated with principal components for growth, visual score and reproductive traits in Nelore cattle. <i>Livestock Science</i> , 2020 , 233, 103936	1.7	2
21	Compara de critios de sele para precocidade de crescimento em bovinos da ra Guzerr. <i>Revista Brasileira De Zootecnia</i> , 2009 , 38, 284-291	1.2	2
20	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	4.5	2

19	Uncovering Sub-Structure and Genomic Profiles in Across-Countries Subpopulations of Angus Cattle. <i>Scientific Reports</i> , 2020 , 10, 8770	4.9	1
18	Genetic analysis of the temperament of Nelore cattle using linear and threshold models. <i>Animal</i> , 2015 , 9, 388-94	3.1	1
17	Signatures of selection in Nelore cattle revealed by whole-genome sequencing data.. <i>Genomics</i> , 2022 , 114, 110304	4.3	1
16	Uso combinado de sñen sexado e acasalamento dirigido sobre uma populaçã de bovinos de corte submetida a seleçã: estudo de simulaçã. <i>Revista Brasileira De Zootecnia</i> , 2009 , 38, 2368-2374	1.2	1
15	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	1.4	1
14	Comparison of GWA statistical methods for traits under different genetic structures: A simulation study. <i>Livestock Science</i> , 2020 , 241, 104213	1.7	1
13	Contribuiçã genética ãima aplicada ã seleçã de ovinos Santa Inã. <i>Pesquisa Agropecuaria Brasileira</i> , 2016 , 51, 745-750	1.8	1
12	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	2.9	1
11	Trait-specific long-term consequences of genomic selection in beef cattle. <i>Genetica</i> , 2018 , 146, 85-99	1.5	1
10	Investigating potential causal relationships among carcass and meat quality traits using structural equation model in Nelore cattle.. <i>Meat Science</i> , 2022 , 187, 108771	6.4	1
9	Sustainable Intensification of Beef Production in the Tropics: The Role of Genetically Improving Sexual Precocity of Heifers.. <i>Animals</i> , 2022 , 12,	3.1	0
8	Accuracy of genotype imputation to whole genome sequencing level using different populations of Nile tilapia. <i>Aquaculture</i> , 2022 , 551, 737947	4.4	0
7	Mate selection provides similar genetic progress and average inbreeding than optimum contribution selection in the long-term. <i>Aquaculture</i> , 2020 , 526, 735376	4.4	0
6	How Bioinformatics Enables Livestock Applied Sciences in the Genomic Era. <i>Lecture Notes in Computer Science</i> , 2012 , 192-201	0.9	0
5	Comparison of methods for predicting genomic breeding values for growth traits in Nelore cattle. <i>Tropical Animal Health and Production</i> , 2021 , 53, 349	1.7	0
4	Effect of harvest weight and its uniformity on survival in <i>Litopenaeus vannamei</i> reared in different systems. <i>Aquaculture</i> , 2021 , 531, 735891	4.4	0
3	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	2.3	0
2	Genomics applied to livestock and aquaculture breeding.. <i>Evolutionary Applications</i> , 2022 , 15, 517-522	4.8	0

1 Association Mapping for Sugarcane Quality Traits at Three Harvest Times. *Sugar Tech*,1

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