

# Joaquim Casellas

## List of Publications by Year in descending order

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Version: 2024-02-01

114  
papers

1,674  
citations

304602

22  
h-index

414303

32  
g-index

116  
all docs

116  
docs citations

116  
times ranked

1847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyses of lambing dates in sheep breeds using von Mises distribution. <i>Journal of Animal Breeding and Genetics</i> , 2022, 139, 271-280.	0.8	1
2	Analysis of reproductive seasonality in Entrepelado and Retinto Iberian pig varieties under intensive management. <i>Livestock Science</i> , 2021, 245, 104441.	0.6	0
3	Markers with low GenTrain scores can generate spurious signals in genome-wide scans for transmission ratio distortion. <i>Animal Genetics</i> , 2021, 52, 779-781.	0.6	2
4	Low-coverage whole-genome sequencing in livestock species for individual traceability and parentage testing. <i>Livestock Science</i> , 2021, 251, 104629.	0.6	3
5	Maternal Transmission Ratio Distortion in Two Iberian Pig Varieties. <i>Genes</i> , 2020, 11, 1050.	1.0	3
6	Discovering lethal alleles across the turkey genome using a transmission ratio distortion approach. <i>Animal Genetics</i> , 2020, 51, 876-889.	0.6	12
7	A cross-specific multiplicative binomial recursive model for the analysis of perinatal mortality in a diallel cross among three varieties of Iberian pig. <i>Scientific Reports</i> , 2020, 10, 21190.	1.6	3
8	Genetic inbreeding depression load for morphological traits and defects in the Pura Raza Española horse. <i>Genetics Selection Evolution</i> , 2020, 52, 62.	1.2	18
9	Discriminating between allele- and genotype-specific transmission ratio distortion. <i>Animal Genetics</i> , 2020, 51, 847-854.	0.6	12
10	Whole genome sequencing identifies allelic ratio distortion in sperm involving genes related to spermatogenesis in a swine model. <i>DNA Research</i> , 2020, 27, .	1.5	6
11	Genomic differentiation among varieties of Iberian pig. <i>Spanish Journal of Agricultural Research</i> , 2020, 18, e0401.	0.3	6
12	Low genome-wide homozygosity in 11 Spanish ovine breeds. <i>Animal Genetics</i> , 2019, 50, 501-511.	0.6	8
13	Genetic parameters and direct, maternal and heterosis effects on litter size in a diallel cross among three commercial varieties of Iberian pig. <i>Animal</i> , 2019, 13, 2765-2772.	1.3	15
14	Inbreeding depression load for litter size in Entrepelado and Retinto Iberian pig varieties1. <i>Journal of Animal Science</i> , 2019, 97, 1979-1986.	0.2	11
15	Analysis of lambing distribution in the Ripollesa sheep breed. I. Development and comparison of circular von Mises models. <i>Animal</i> , 2019, 13, 2133-2139.	1.3	2
16	Comparing the mRNA expression profile and the genetic determinism of intramuscular fat traits in the porcine gluteus medius and longissimus dorsi muscles. <i>BMC Genomics</i> , 2019, 20, 170.	1.2	27
17	Analysis of lambing distribution in the Ripollesa sheep breed. II. Environmental and genetic sources of variation. <i>Animal</i> , 2019, 13, 2140-2145.	1.3	4
18	Implementation of Bayesian methods to identify SNP and haplotype regions with transmission ratio distortion across the whole genome: TRDscan v.1.0. <i>Journal of Dairy Science</i> , 2019, 102, 3175-3188.	1.4	19

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19	A multivariate analysis with direct additive and inbreeding depression load effects. <i>Genetics Selection Evolution</i> , 2019, 51, 78.	1.2	10
20	On individual-specific prediction of hidden inbreeding depression load. <i>Journal of Animal Breeding and Genetics</i> , 2018, 135, 37-44.	0.8	9
21	Freemartinism in replacement ewe-lambs of the Ripollesa sheep breed. <i>Journal of Veterinary Science</i> , 2018, 19, 858.	0.5	3
22	Expression patterns and genetic variation of the ovine skeletal muscle transcriptome of sheep from five Spanish meat breeds. <i>Scientific Reports</i> , 2018, 8, 10486.	1.6	8
23	Genetic evaluation of age at first calving for GuzerÃ¡ beef cattle using linear, threshold, and survival Bayesian models. <i>Journal of Animal Science</i> , 2018, 96, 2517-2524.	0.2	5
24	Impact of incomplete pedigree data and independent culling level pre-selection on the genetic evaluation of livestock: A simulation study on lamb growth. <i>Livestock Science</i> , 2017, 198, 76-81.	0.6	12
25	Fine mapping by composite genome-wide association analysis. <i>Genetical Research</i> , 2017, 99, e4.	0.3	0
26	Technical note: PaGELL v.1.5: A flexible parametric program for the Bayesian analysis of longevity data within the context of animal breeding. <i>Journal of Dairy Science</i> , 2017, 100, 8282-8286.	1.4	0
27	Validation of a Bayesian approach for maternity identification in abandoned lambs. <i>Italian Journal of Animal Science</i> , 2017, 16, 405-411.	0.8	0
28	Bayesian analysis of parent-specific transmission ratio distortion in seven Spanish beef cattle breeds. <i>Animal Genetics</i> , 2017, 48, 93-96.	0.6	42
29	Population structure of eleven Spanish ovine breeds and detection of selective sweeps with BayeScan and hapFLK. <i>Scientific Reports</i> , 2016, 6, 27296.	1.6	52
30	Comparison between linear and proportional hazard models for the analysis of age at first lambing in the Ripollesa breed. <i>Animal</i> , 2016, 10, 365-371.	1.3	2
31	Genetic and environmental relationships of detailed milk fatty acids profile determined by gas chromatography in Brown Swiss cows. <i>Journal of Dairy Science</i> , 2016, 99, 1315-1330.	1.4	43
32	Genetic variation and effects of candidate-gene polymorphisms on coagulation properties, curd firmness modeling and acidity in milk from Brown Swiss cows. <i>Animal</i> , 2015, 9, 1104-1112.	1.3	27
33	Consequences of paternally inherited effects on the genetic evaluation of maternal effects. <i>Genetics Selection Evolution</i> , 2015, 47, 63.	1.2	7
34	A Genetic Predictive Model for Canine Hip Dysplasia: Integration of Genome Wide Association Study (GWAS) and Candidate Gene Approaches. <i>PLoS ONE</i> , 2015, 10, e0122558.	1.1	28
35	Accuracy and expected genetic gain under genetic or genomic evaluation in sheep flocks with different amounts of pedigree, genomic and phenotypic data. <i>Livestock Science</i> , 2015, 182, 58-63.	0.6	9
36	Fetal programming by co-twin rivalry in sheep1. <i>Journal of Animal Science</i> , 2014, 92, 64-71.	0.2	12

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37	Candidate gene association analysis for milk yield, composition, urea nitrogen and somatic cell scores in Brown Swiss cows. <i>Animal</i> , 2014, 8, 1062-1070.	1.3	32
38	A Flexible Bayesian Model for Testing for Transmission Ratio Distortion. <i>Genetics</i> , 2014, 198, 1357-1367.	1.2	21
39	Bayesian analysis of additive epistasis arising from new mutations in mice. <i>Genetical Research</i> , 2014, 96, e008.	0.3	3
40	A genome-wide association analysis for porcine serum lipid traits reveals the existence of age-specific genetic determinants. <i>BMC Genomics</i> , 2014, 15, 758.	1.2	24
41	Application of the microarray technology to the transcriptional analysis of muscle phenotypes in pigs. <i>Animal Genetics</i> , 2014, 45, 311-321.	0.6	14
42	Differences in Muscle Transcriptome among Pigs Phenotypically Extreme for Fatty Acid Composition. <i>PLoS ONE</i> , 2014, 9, e99720.	1.1	66
43	Short communication: Accounting for new mutations in genomic prediction models. <i>Journal of Dairy Science</i> , 2013, 96, 5398-5402.	1.4	3
44	Genetic analysis of rennet coagulation time, curd-firming rate, and curd firmness assessed over an extended testing period using mechanical and near-infrared instruments. <i>Journal of Dairy Science</i> , 2013, 96, 50-62.	1.4	45
45	Genetics of serum and muscle lipids in pigs. <i>Animal Genetics</i> , 2013, 44, 609-619.	0.6	21
46	Transcriptional analysis of intramuscular fatty acid composition in the longissimus thoracis muscle of Iberian × Landrace backcrossed pigs. <i>Animal Genetics</i> , 2013, 44, 648-660.	0.6	19
47	Variability-specific differential gene expression across reproductive stages in sows. <i>Animal</i> , 2013, 7, 378-385.	1.3	1
48	Canalization analysis of birth weight in Bruna dels Pirineus beef cattle1. <i>Journal of Animal Science</i> , 2013, 91, 3070-3078.	0.2	5
49	Genetic analysis of beef fatty acid composition predicted by near-infrared spectroscopy1. <i>Journal of Animal Science</i> , 2012, 90, 429-438.	0.2	34
50	Bayesian recursive mixed linear model for gene expression analyses with continuous covariates1. <i>Journal of Animal Science</i> , 2012, 90, 67-75.	0.2	0
51	Sources of sire-specific genetic variance for birth and weaning weight in Bruna dels Pirineus beef calves. <i>Animal</i> , 2012, 6, 1931-1938.	1.3	2
52	Genome Scans for Transmission Ratio Distortion Regions in Mice. <i>Genetics</i> , 2012, 191, 247-259.	1.2	31
53	Backfat thickness and longissimus dorsi real-time ultrasound measurements in light lambs1. <i>Journal of Animal Science</i> , 2012, 90, 5047-5055.	0.2	9
54	Comparison of linear, skewed-linear, and proportional hazard models for the analysis of lambing interval in Ripollesa ewes1. <i>Journal of Animal Science</i> , 2012, 90, 1788-1797.	0.2	3

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55	Recombination rates across porcine autosomes inferred from high-density linkage maps. <i>Animal Genetics</i> , 2012, 43, 620-623.	0.6	27
56	Modeling Skewness in Human Transcriptomes. <i>PLoS ONE</i> , 2012, 7, e38919.	1.1	7
57	Short communication: Effect of mutation age on genomic predictions. <i>Journal of Dairy Science</i> , 2011, 94, 4224-4229.	1.4	7
58	Inbred mouse strains and genetic stability: a review. <i>Animal</i> , 2011, 5, 1-7.	1.3	89
59	Short Communication: Estimating abundance, survival and age structure of the Alberes cattle using recapture techniques. <i>Canadian Journal of Animal Science</i> , 2011, 91, 343-347.	0.7	0
60	Bootstrap test for proportional hazard assumption on time-independent systematic effects of longevity data. <i>Journal of Animal Breeding and Genetics</i> , 2011, 128, 100-104.	0.8	0
61	Quantitative trait loci for fatness at growing and reproductive stages in Iberian Meishan F <sub>2</sub> sows. <i>Animal Genetics</i> , 2011, 42, 548-551.	0.6	5
62	Epistasis for Founder-Specific Inbreeding Depression in Rabbits. <i>Journal of Heredity</i> , 2011, 102, 157-164.	1.0	11
63	Morphological analysis and subpopulation characterization of Ripollesa sheep breed. <i>Animal Genetic Resources = Ressources Genetiques Animales = Recursos Geneticos Animales</i> , 2011, 49, 9-17.	0.2	22
64	Survey of SSC12 Regions Affecting Fatty Acid Composition of Intramuscular Fat Using High-Density SNP Data. <i>Frontiers in Genetics</i> , 2011, 2, 101.	1.1	12
65	Accounting for additive genetic mutations on litter size in Ripollesa sheep1. <i>Journal of Animal Science</i> , 2010, 88, 1248-1255.	0.2	7
66	Bayes factor analyses of heritability for serum and muscle lipid traits in Duroc pigs1. <i>Journal of Animal Science</i> , 2010, 88, 2246-2254.	0.2	31
67	Segregation Analysis of a Sex Ratio Distortion Locus in Congenic Mice. <i>Journal of Heredity</i> , 2010, 101, 351-359.	1.0	3
68	Dairy Cattle Breeding Simulation Program: A simulation program to teach animal breeding principles and practices. <i>Journal of Dairy Science</i> , 2010, 93, 2816-2826.	1.4	3
69	Additive genetic relationship of longevity with fertility and production traits in Nellore cattle based on bivariate models. <i>Genetics and Molecular Research</i> , 2010, 9, 176-187.	0.3	30
70	Analysis of founder-specific inbreeding depression on birth weight in Ripollesa lambs1. <i>Journal of Animal Science</i> , 2009, 87, 72-79.	0.2	61
71	Genetic background and phenotypic characterization over two farrowings of leg conformation defects in Landrace and Large White sows1. <i>Journal of Animal Science</i> , 2009, 87, 1606-1612.	0.2	11
72	Bayesian threshold analysis of direct and maternal genetic parameters for piglet mortality at farrowing in Large White, Landrace, and Pietrain populations1. <i>Journal of Animal Science</i> , 2009, 87, 80-87.	0.2	23

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73	Consistency and influence on performance of behavioural differences in Large White and Landrace purebred pigs. <i>Applied Animal Behaviour Science</i> , 2009, 117, 13-19.	0.8	9
74	Evidence of maternal QTL affecting growth and obesity in adult mice. <i>Mammalian Genome</i> , 2009, 20, 269-280.	1.0	23
75	Fine mapping and association analysis of a quantitative trait locus for milk production traits on <i>Bos taurus</i> autosome 4. <i>Journal of Dairy Science</i> , 2009, 92, 758-764.	1.4	17
76	Competing risk analyses of longevity in Duroc sows with a special emphasis on leg conformation. <i>Animal</i> , 2009, 3, 446-453.	1.3	8
77	Lack of <i>Socs2</i> expression reduces lifespan in high-growth mice. <i>Age</i> , 2008, 30, 245-249.	3.0	10
78	Using haplotype probabilities in categorical survival analysis: a case study with three candidate genes in an Iberian $\times$ Meishan F <sub>2</sub> population of newborn piglets. <i>Journal of Animal Breeding and Genetics</i> , 2008, 125, 5-12.	0.8	2
79	An Association Analysis Between a Silent C558T Polymorphism at the Pig Vascular Cell Adhesion Molecule 1 Locus and Sow Reproduction and Piglet Survivability Traits. <i>Reproduction in Domestic Animals</i> , 2008, 43, 542-546.	0.6	4
80	geamm v.1.4: a versatile program for mixed model analysis of gene expression data. <i>Animal Genetics</i> , 2008, 39, 89-90.	0.6	10
81	Bayes factor between Student t and Gaussian mixed models within an animal breeding context. <i>Genetics Selection Evolution</i> , 2008, 40, 395.	1.2	2
82	Between-groups within-gene heterogeneity of residual variances in microarray gene expression data. <i>BMC Genomics</i> , 2008, 9, 319.	1.2	3
83	Characterisation and conservation programme of the Alberes cattle breed in Catalonia (Spain). <i>Animal Genetic Resources Information</i> , 2008, 43, 1-14.	0.3	1
84	Skew distribution of founder-specific inbreeding depression effects on the longevity of Landrace sows. <i>Genetical Research</i> , 2008, 90, 499-508.	0.3	15
85	Within-Generation Mutation Variance for Litter Size in Inbred Mice. <i>Genetics</i> , 2008, 179, 2147-2155.	1.2	21
86	Bayesian analysis of quantitative traits using skewed distributions. <i>Genetical Research</i> , 2008, 90, 179-190.	0.3	11
87	Empirical Bayes factor analyses of quantitative trait loci for gestation length in Iberian $\times$ Meishan F <sub>2</sub> sows. <i>Animal</i> , 2008, 2, 177-183.	1.3	6
88	Effect of leg conformation on survivability of Duroc, Landrace, and Large White sows <sup>1</sup> . <i>Journal of Animal Science</i> , 2008, 86, 2392-2400.	0.2	35
89	Survival Quantitative Trait Locus Fine Mapping by Measuring and Testing for Hardy-Weinberg and Linkage Disequilibrium. <i>Genetics</i> , 2007, 176, 721-724.	1.2	5
90	Genetic determinism for within-litter birth weight variation and its relationship with litter weight and litter size in the Ripollesa ewe breed. <i>Animal</i> , 2007, 1, 637-644.	1.3	10

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91	Survival analysis from birth to slaughter of Ripollesa lambs under semi-intensive management <sup>1</sup> . Journal of Animal Science, 2007, 85, 512-517.	0.2	33
92	Analysis of litter size and days to lambing in the Ripollesa ewe. II. Estimation of variance components and response to phenotypic selection on litter size <sup>1</sup> . Journal of Animal Science, 2007, 85, 625-631.	0.2	9
93	Association analyses between the prion protein locus and reproductive and lamb weight traits in Ripollesa sheep <sup>1</sup> . Journal of Animal Science, 2007, 85, 592-597.	0.2	24
94	Analysis of litter size and days to lambing in the Ripollesa ewe. I. Comparison of models with linear and threshold approaches <sup>1</sup> . Journal of Animal Science, 2007, 85, 618-624.	0.2	14
95	Bayesian inference in a piecewise Weibull proportional hazards model with unknown change points. Journal of Animal Breeding and Genetics, 2007, 124, 176-184.	0.8	14
96	Bayes factor for testing between different structures of random genetic groups: A case study using weaning weight in Bruna dels Pirineus beef cattle. Genetics Selection Evolution, 2007, 39, 39.	1.2	8
97	Bayes factor for testing between different structures of random genetic groups: A case study using weaning weight in Bruna dels Pirineus beef cattle. Genetics Selection Evolution, 2007, 39, 39-53.	1.2	1
98	Response of lactating dairy ewes to various levels of dietary calcium soaps of fatty acids. Animal Feed Science and Technology, 2006, 131, 312-332.	1.1	19
99	Parametric bootstrap for testing model fitting in the proportional hazards framework: An application to the survival analysis of Bruna dels Pirineus beef calves <sup>1</sup> . Journal of Animal Science, 2006, 84, 2609-2616.	0.2	13
100	Evaluation of the retention of electronic identification boluses in the forestomachs of cattle <sup>1,2</sup> . Journal of Animal Science, 2006, 84, 2260-2268.	0.2	13
101	Retention of different sizes of electronic identification boluses in the forestomachs of sheep <sup>1,2</sup> . Journal of Animal Science, 2006, 84, 2865-2872.	0.2	19
102	High amino acid variation in the intracellular domain of the pig prolactin receptor (PRLR) and its relation to ovulation rate and piglet survival traits <sup>1</sup> . Journal of Animal Science, 2006, 84, 1991-1998.	0.2	36
103	Analysis of temperament development during the fattening period in the semi-feral bovine calves of the Alberes Massif. Animal Research, 2006, 55, 389-395.	0.6	6
104	An association study between polymorphisms of the porcine bone morphogenetic protein receptor type 1beta (BMPRI1B) and reproductive performance of Iberian x Meishan F2 sows. Animal Genetics, 2006, 37, 297-298.	0.6	8
105	Polymorphisms of the porcine dopamine beta-hydroxylase gene and their relation to reproduction and piglet survivability in an Iberian x Meishan F2 intercross. Animal Genetics, 2006, 37, 279-282.	0.6	11
106	Bayes factor for testing the genetic background of quantitative threshold traits. Journal of Animal Breeding and Genetics, 2006, 123, 301-306.	0.8	7
107	Effect of medium- and long-chain triglyceride supplementation on small newborn-pig survival. Preventive Veterinary Medicine, 2005, 67, 213-221.	0.7	13
108	Bayes factor analysis for the genetic background of physiological and vitality variables of F2 Iberian x Meishan newborn piglets <sup>1</sup> . Journal of Animal Science, 2005, 83, 334-339.	0.2	8

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109	Genetic and environmental factors influencing mortality up to weaning of Bruna dels Pirineus beef calves in mountain areas. A survival analysis <sup>1</sup> . Journal of Animal Science, 2005, 83, 543-551.	0.2	41
110	Viability of Iberian $\tilde{\text{A}}$ – Meishan F2 newborn pigs. I. Analysis of physiological and vitality variables <sup>1</sup> . Journal of Animal Science, 2004, 82, 1919-1924.	0.2	18
111	Viability of Iberian $\tilde{\text{A}}$ – Meishan F2 newborn pigs. II. Survival analysis up to weaning <sup>1</sup> . Journal of Animal Science, 2004, 82, 1925-1930.	0.2	26
112	Genetic diversity measures of the bovine Alberes breed using microsatellites: variability among herds and types of coat colour*. Journal of Animal Breeding and Genetics, 2004, 121, 101-110.	0.8	16
113	Correction factors for weight productive traits up to weaning in the Bruna dels Pirineus beef cattle breed. Animal Research, 2002, 51, 43-50.	0.6	6
114	Carcass traits and meat fatty acid composition in Mediterranean light lambs. Canadian Journal of Animal Science, 0, , .	0.7	2