John Gibson

List of Publications by Year
in descending order

92 papers	3,157 citations	147566 31 h-index	174990 52 g-index
92 all docs	92 docs citations	92 times ranked	3099 citing authors

#	Article	IF	Citations
1	The nature and identification of quantitative trait loci: a community's view. Nature Reviews Genetics, 2003, 4, 911-916.	7.7	390
2	High resolution melting analysis of almond SNPs derived from ESTs. Theoretical and Applied Genetics, 2008, 118, 1-14.	1.8	146
3	Quantitative trait loci for upper thermal tolerance inoutbred strains of rainbow trout (Oncorhynchus mykiss). Heredity, 2001, 86, 333-341.	1.2	116
4	Estimates of genetic parameters and genotype by environment interactions for growth traits of rainbow trout (Oncorhynchus mykiss) as inferred using molecular pedigrees. Aquaculture, 2002, 206, 137-150.	1.7	102
5	Balancing selection response and rate of inbreeding by including genetic relationships in selection decisions. Theoretical and Applied Genetics, 1995, 91, 421-431.	1.8	93
6	Genetic and expression analysis of cattle identifies candidate genes in pathways responding to Trypanosoma congolense infection. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9304-9309.	3.3	92
7	Mapping Quantitative Trait Loci Affecting Female Reproductive Traits on Porcine Chromosome 81. Biology of Reproduction, 2003, 68, 2172-2179.	1.2	87
8	Combination of multiple microsatellite data sets to investigate genetic diversity and admixture of domestic cattle. Animal Genetics, 2006, 37, 1-9.	0.6	82
9	Understanding bovine trypanosomiasis and trypanotolerance: the promise of functional genomics. Veterinary Immunology and Immunopathology, 2005, 105, 247-258.	0.5	74
10	Livestock Genomics for Developing Countries â€“ African Examples in Practice. Frontiers in Genetics, 2019, 10, 297.	1.1	74
11	Detection of QTL for milk production on Chromosomes 1 and 6 of Holstein cattle. Mammalian Genome, 2001, 12, 27-31.	1.0	64
12	Identification of Novel Loci Associated with Gastrointestinal Parasite Resistance in a Red Maasai x Dorper Backcross Population. PLoS ONE, 2015, 10, e0122797.	1.1	60
13	The effects of frequency of feeding on milk production of dairy cattle: an analysis of published results. Animal Science, 1984, 38, 181-189.	1.3	57
14	Genetic polymorphisms in the leptin gene and their association with fatness in four pig breeds. Mammalian Genome, 1999, 10, 191-193.	1.0	57
15	The use of constrained selection indexes in breeding for economic merit. Theoretical and Applied Genetics, 1990, 80, 801-805.	1.8	56
16	Detection of Quantitative Trait Loci Affecting Milk Production Traits on 10 Chromosomes in Holstein Cattle. Journal of Dairy Science, 2001, 84, 1516-1524.	1.4	53
17	How many markers are enough? Factors influencing parentage testing in different livestock populations. Journal of Animal Breeding and Genetics, 2016, 133, 13-23.	0.8	53
18	Use of a bovine genome array to identify new biological pathways for beef marbling in Hanwoo (Korean Cattle). BMC Genomics, 2010, 11, 623.	1.2	50

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19	Cytokine mRNA profiling of peripheral blood mononuclear cells from trypanotolerant and trypanosusceptible cattle infected withTrypanosoma congolense. Physiological Genomics, 2006, 28, 53-61.	1.0	49
20	Confirmation and dissection of QTL controlling resistanceto malaria in mice. Mammalian Genome, 2004, 15, 390-398.	1.0	48
21	Use of body linear measurements to estimate liveweight of crossbred dairy cattle in smallholder farms in Kenya. SpringerPlus, 2016, 5, 63.	1.2	46
22	Identification of quantitative trait loci affecting resistance to gastrointestinal parasites in a double backcross population of Red Maasai and Dorper sheep. Animal Genetics, 2012, 43, 63-71.	0.6	44
23	Mapping SNP-anchored genes using high-resolution melting analysis in almond. Molecular Genetics and Genomics, 2009, 282, 273-281.	1.0	43
24	Applying Breeding Objectives to Dairy Cattle Improvement. Journal of Dairy Science, 1998, 81, 19-35.	1.4	42
25	Genomeâ€wide detection of signatures of selection in <scp>K</scp>orean <scp>H</scp>anwoo cattle. Animal Genetics, 2014, 45, 180-190.	0.6	40
26	Genetic polymorphisms of the bovine Fatty acid binding protein 4 gene are significantly associated with marbling and carcass weight in Hanwoo (Korean Cattle). Animal Genetics, 2010, 41, 442-444.	0.6	38
27	Efficiency and performance of genetically high and low milk-producing British Friesian and Jersey cattle. Animal Science, 1986, 42, 161-182.	1.3	37
28	Chromosomal regions controlling resistance to gastro-intestinal nematode infections in mice. Mammalian Genome, 2003, 14, 184-191.	1.0	37
29	Genetic tests for estimating dairy breed proportion and parentage assignment in East African crossbred cattle. Genetics Selection Evolution, 2017, 49, 67.	1.2	36
30	Detection of genomic regions underlying resistance to gastrointestinal parasites in Australian sheep. Genetics Selection Evolution, 2019, 51, 37.	1.2	36
31	Optimum linear selection indexes for multiple generation objectives with non-linear profit functions. Animal Science, 1995, 61, 165-175.	1.3	34
32	Mapping of chromosomal regions influencing immunological responses to gastrointestinal nematode infections in mice. Parasite Immunology, 2003, 25, 341-349.	0.7	33
33	The feasibility of using low-density marker panels for genotype imputation and genomic prediction of crossbred dairy cattle of East Africa. Journal of Dairy Science, 2018, 101, 9108-9127.	1.4	33
34	Expression of candidate genes for residual feed intake in Angus cattle. Animal Genetics, 2014, 45, 12-19.	0.6	31
35	Transgene effects, introgression strategies and testing schemes in pigs. Animal Science, 1992, 54, 427-440.	1.3	30
36	Multi-primer target PCR for rapid identification of bovine DRB3 alleles. Animal Genetics, 2001, 32, 219-221.	0.6	30

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37	Quantitative trait loci for resistance to <scp>H</scp>aemonchus contortus artificial challenge in <scp>R</scp>ed <scp>M</scp>aasai and <scp>D</scp>orper sheep of <scp>E</scp>ast <scp>A</scp>frica. Animal Genetics, 2013, 44, 285-295.	0.6	30
38	The porcine gonadotropin-releasing hormone receptor gene (GNRHR): Genomic organization, polymorphisms, and association with the number of corpora lutea. Genome, 2001, 44, 7-12.	0.9	29
39	Altering Milk Composition Through Genetic Selection. Journal of Dairy Science, 1989, 72, 2815-2825.	1.4	28
40	Construction of an almond linkage map in an Australian population Nonpareil Ã— Lauranne. BMC Genomics, 2010, 11, 551.	1.2	28
41	Characterization and Profiling of Liver microRNAs by RNA-sequencing in Cattle Divergently Selected for Residual Feed Intake. Asian-Australasian Journal of Animal Sciences, 2016, 29, 1371-1382.	2.4	28
42	Using imputed whole-genome sequence data to improve the accuracy of genomic prediction for parasite resistance in Australian sheep. Genetics Selection Evolution, 2019, 51, 32.	1.2	28
43	The porcine gonadotropin-releasing hormone receptor gene (GNRHR): Genomic organization, polymorphisms, and association with the number of corpora lutea. Genome, 2001, 44, 7-12.	0.9	28
44	No detectable association of the ESR Pvu II mutation with sow productivity in a Meishanâ€ƒÃ—â€ƒLarge White F2 population. Animal Genetics, 2002, 33, 448-450.	0.6	27
45	Performance of different SNP panels for parentage testing in two East Asian cattle breeds. Animal Genetics, 2014, 45, 572-575.	0.6	27
46	Economic weights and index selection of milk production traits when multiple production quotas apply. Animal Science, 1989, 49, 171-181.	1.3	26
47	The effects of feeding frequency on the growth and efficiency of food utilization of ruminants: an analysis of published results. Animal Science, 1981, 32, 275-283.	1.3	25
48	Genetic variation in resistance to repeated infections with Heligmosomoides polygyrus bakeri, in inbred mouse strains selected for the mouse genome project. Parasite Immunology, 2006, 28, 85-94.	0.7	24
49	Use of Recombinant Bovine Somatotropin for up to Two Consecutive Lactations on Dairy Production Traits. Journal of Dairy Science, 1990, 73, 3248-3257.	1.4	22
50	Recombinant Tumor Necrosis Factor Alpha Does Not Inhibit the Growth of African Trypanosomes in Axenic Cultures. Infection and Immunity, 2002, 70, 2210-2214.	1.0	22
51	High resolution mapping of chromosomal regions controlling resistance to gastrointestinal nematode infections in an advanced intercross line of mice. Mammalian Genome, 2006, 17, 584-597.	1.0	21
52	Trypanotolerance in Nâ€™Dama x Boran crosses under natural trypanosome challenge: effect of test-year environment, gender, and breed composition. BMC Genetics, 2012, 13, 87.	2.7	20
53	Strategies to enable the adoption of animal biotechnology to sustainably improve global food safety and security. Transgenic Research, 2016, 25, 575-595.	1.3	20
54	Discrimination of SNP genotypes associated with complex haplotypes by high resolution melting analysis in almond: implications for improved marker efficiencies. Molecular Breeding, 2010, 25, 351-357.	1.0	18

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55	Genetic diversity and effective population sizes of thirteen Indian cattle breeds. Genetics Selection Evolution, 2021, 53, 47.	1.2	18
56	Susceptibility of heat shock protein 70.1-deficient C57BL/6ÂJ, wild-type C57BL/6ÂJ and A/J mice to Trypanosoma congolense infection. Parasitology Research, 2003, 90, 171-174.	0.6	16
57	Genome wide QTL mapping to identify candidate genes for carcass traits in Hanwoo (Korean Cattle). Genes and Genomics, 2012, 34, 43-49.	0.5	16
58	The patterns of admixture, divergence, and ancestry of African cattle populations determined from genome-wide SNP data. BMC Genomics, 2020, 21, 869.	1.2	16
59	QTL and gene expression analyses identify genes affecting carcass weight and marbling on BTA14 in Hanwoo (Korean Cattle). Mammalian Genome, 2011, 22, 589-601.	1.0	15
60	A Comprehensive Genetic Analysis of Candidate Genes Regulating Response to Trypanosoma congolense Infection in Mice. PLoS Neglected Tropical Diseases, 2010, 4, e880.	1.3	14
61	Genetic and economic benefits of selection based on performance recording and genotyping in lower tiers of multi-tiered sheep breeding schemes. Genetics Selection Evolution, 2017, 49, 10.	1.2	14
62	Genomic evaluation of milk yield in a smallholder crossbred dairy production system in India. Genetics Selection Evolution, 2021, 53, 73.	1.2	13
63	Analysis of culling reasons and age at culling in Australian dairy cattle. Animal Production Science, 2021, 61, 680-689.	0.6	13
64	Within-family selection at an otherwise unselected locus in dairy cattle. Genome, 1993, 36, 433-439.	0.9	12
65	Ancestral Haplotype Mapping for GWAS and Detection of Signatures of Selection in Admixed Dairy Cattle of Kenya. Frontiers in Genetics, 2020, 11, 544.	1.1	12
66	SNP panels for the estimation of dairy breed proportion and parentage assignment in African crossbred dairy cattle. Genetics Selection Evolution, 2021, 53, 21.	1.2	12
67	Effect on Production Traits of Bovine Somatotropin for Up to Three Consecutive Lactations. Journal of Dairy Science, 1992, 75, 837-846.	1.4	11
68	Genotype and expression analysis of two inbred mouse strains and two derived congenic strains suggest that most gene expression is trans regulated and sensitive to genetic background. BMC Genomics, 2010, 11, 361.	1.2	10
69	Concentrations of blood constituents in genetically high and low milk-production lines of British Friesian and Jersey cattle around calving and in early lactation. Animal Science, 1987, 44, 183-199.	1.3	9
70	Including genetic relationships in selection decisions: alternative methodologies. Theoretical and Applied Genetics, 1995, 91, 769-775.	1.8	9
71	The effect of gametic-phase disequilibrium on the prediction of response to recurrent selection in plants. Theoretical and Applied Genetics, 1993, 87, 152-160.	1.8	8
72	Synthetic nonamer peptides derived from insect defensin mediate the killing of African trypanosomes in axenic culture. Parasitology Research, 2009, 105, 217-25.	0.6	8

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73	Quantitative trait loci for resistance to Heligmosomoides bakeri and associated immunological and pathological traits in mice: comparison of loci on chromosomes 5, 8 and 11 in F2 and F6/7 inter-cross lines of mice. Parasitology, 2010, 137, 311-320.	0.7	8
74	The Effects of Genetic and Phenotypic Production Potential on Response to Recombinant Bovine Somatotropin. Journal of Dairy Science, 1992, 75, 878-884.	1.4	7
75	Accuracy of evaluation and correlation of estimated breeding values among relatives, with evaluation based on information from relatives or from identified loci. Journal of Animal Breeding and Genetics, 1995, 112, 17-32.	0.8	7
76	The genetics of selfing with concurrent backcrossing in breeding hybrid sugar beet (Beta vulgaris) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	7
77	Clinical Chemistry of Congenic Mice with Quantitative Trait Loci for Predicted Responses to Trypanosoma congolense Infection. Infection and Immunity, 2009, 77, 3948-3957.	1.0	7
78	Farmersâ€™ Perceptions of Dairy Cattle Breeds, Breeding and Feeding Strategies: A Case of Smallholder Dairy Farmers in Western Kenya. East African Agricultural and Forestry Journal, 2019, 83, 351-367.	0.4	7
79	Expression of trypanotolerance in Nâ€™Dama x Boran crosses under field challenge in relation to Nâ€™Dama genome content. BMC Proceedings, 2011, 5, S23.	1.8	6
80	Concentrations of blood constituents from 12 to 72 weeks of age in genetically high and low milk production lines of Friesian and Jersey cattle. Journal of Agricultural Science, 1986, 107, 239-248.	0.6	5
81	Genetic improvement of production while maintaining fitness. Theoretical and Applied Genetics, 1995, 90, 627-635.	1.8	5
82	Bi-PASA genotyping of a new polymorphism in theAPOBgene shows no evidence for an association with fatness in pigs. Animal Genetics, 1999, 30, 54-57.	0.6	5
83	Hormonal growth implants affect feed efficiency and expression of residual feed intake-associated genes in beef cattle. Animal Production Science, 2014, 54, 550.	0.6	4
84	Assessment of the genetic and economic impact of performance recording and genotyping in Australian commercial sheep operations. Journal of Animal Breeding and Genetics, 2018, 135, 221-237.	0.8	4
85	The Incorporation of Biotechnologies into Animal Breeding Strategies. , 1989, , 203-231.		3
86	Small SNP panels for breed proportion estimation in Indian crossbred dairy cattle. Journal of Animal Breeding and Genetics, 2021, 138, 698-707.	0.8	3
87	Selection strategies and artificial evolution. Theoretical and Applied Genetics, 1989, 78, 87-92.	1.8	2
88	Biphasic survival analysis of trypanotolerance QTL in mice. Heredity, 2008, 100, 407-414.	1.2	2
89	Inference of Ancestries and Heterozygosity Proportion and Genotype Imputation in West African Cattle Populations. Frontiers in Genetics, 2021, 12, 584355.	1.1	2
90	Some sources of error and possible bias in Danscan ultrasonic measurements of cattle. Animal Science, 1983, 37, 67-71.	1.3	1

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91	Accounting for uncertainty in QTL location in marker-assisted pre-selection of young bulls prior to progeny test. Journal of Animal Breeding and Genetics, 2002, 119, 15-24.	0.8	1
92	Estimation of additive genetic variance in commercial layer poultry and simulated populations under selection. Theoretical and Applied Genetics, 1996, 92, 483-491.	1.8	1