

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132 papers	2,658 citations	27 h-index	44 g-index
140 ext. papers	3,014 ext. citations	3.3 avg, IF	4.55 L-index

#	Paper	IF	Citations
132	Lack of myostatin results in excessive muscle growth but impaired force generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1835-40	11.5	293
131	Prediction of sensory characteristics of lamb meat samples by near infrared reflectance spectroscopy. <i>Meat Science</i> , 2007 , 76, 509-16	6.4	110
130	Resting metabolic rate and morphology in mice (<i>Mus musculus</i>) selected for high and low food intake. <i>Journal of Experimental Biology</i> , 2001 , 204, 777-784	3	104
129	Non-invasive methods for the determination of body and carcass composition in livestock: dual-energy X-ray absorptiometry, computed tomography, magnetic resonance imaging and ultrasound: invited review. <i>Animal</i> , 2015 , 9, 1250-64	3.1	87
128	Resting metabolic rate and morphology in mice (<i>Mus musculus</i>) selected for high and low food intake. <i>Journal of Experimental Biology</i> , 2001 , 204, 777-84	3	80
127	Mapping of obesity QTLs in a cross between mouse lines divergently selected on fat content. <i>Mammalian Genome</i> , 2000 , 11, 2-7	3.2	68
126	Parallel selection mapping using artificially selected mice reveals body weight control loci. <i>Current Biology</i> , 2012 , 22, 794-800	6.3	64
125	A polygenic model of the metabolic syndrome with reduced circulating and intra-adipose glucocorticoid action. <i>Diabetes</i> , 2005 , 54, 3371-8	0.9	57
124	Inbred lines of mice derived from long-term growth selected lines: unique resources for mapping growth genes. <i>Mammalian Genome</i> , 2001 , 12, 678-86	3.2	53
123	Effects of low protein diets on pigs with a lean genotype. 1. Carcass composition measured by dissection and muscle fatty acid composition. <i>Meat Science</i> , 2013 , 95, 123-8	6.4	46
122	A genetic investigation of various growth models to describe growth of lambs of two contrasting breeds. <i>Journal of Animal Science</i> , 2006 , 84, 2642-54	0.7	43
121	A stratified transcriptomics analysis of polygenic fat and lean mouse adipose tissues identifies novel candidate obesity genes. <i>PLoS ONE</i> , 2011 , 6, e23944	3.7	42
120	Effects of the compact mutant myostatin allele <i>Mstn</i> (<i>Cmpt-dl1Abc</i>) introgressed into a high growth mouse line on skeletal muscle cellularity. <i>Journal of Muscle Research and Cell Motility</i> , 2005 , 26, 103-12	3.5	39
119	A review of the development and use of video image analysis (VIA) for beef carcass evaluation as an alternative to the current EUROP system and other subjective systems. <i>Meat Science</i> , 2012 , 92, 307-18	6.4	37
118	The use of various live animal measurements to predict carcass and meat quality in two divergent lamb breeds. <i>Meat Science</i> , 2008 , 80, 1138-49	6.4	36
117	Genetic complexity of an obesity QTL (<i>Fob3</i>) revealed by detailed genetic mapping. <i>Mammalian Genome</i> , 2004 , 15, 472-81	3.2	35
116	Evaluation of Video Image Analysis (VIA) technology to predict meat yield of sheep carcasses on-line under UK abattoir conditions. <i>Meat Science</i> , 2009 , 82, 94-100	6.4	34

115	Microarray gene expression analysis of the Fob3b obesity QTL identifies positional candidate gene Sqle and perturbed cholesterol and glycolysis pathways. <i>Physiological Genomics</i> , 2005 , 20, 224-32	3.6	33
114	Inbred lines of mice derived from long-term divergent selection on fat content and body weight. <i>Mammalian Genome</i> , 1999 , 10, 645-8	3.2	33
113	Factors affecting dystocia and offspring vigour in different sheep genotypes. <i>Preventive Veterinary Medicine</i> , 2012 , 103, 257-64	3.1	29
112	Comparison of the Richardson-Lucy method and a classical approach for spectrometer bandpass correction. <i>Metrologia</i> , 2013 , 50, 107-118	2.1	29
111	Meta-analysis of effects of gender in combination with carcass weight and breed on pork quality. <i>Journal of Animal Science</i> , 2013 , 91, 1480-92	0.7	29
110	Breeding for resistance to mastitis in United Kingdom sheep, a review and economic appraisal. <i>Veterinary Record</i> , 2008 , 162, 369-76	0.9	29
109	Thermoregulatory responses of two mouse <i>Mus musculus</i> strains selectively bred for high and low food intake. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2001 , 171, 661-8	2.2	29
108	Analysis of response to 20 generations of selection for body composition in mice: fit to infinitesimal model assumptions. <i>Genetics Selection Evolution</i> , 2000 , 32, 3-21	4.9	29
107	Relationships between quantitative and reproductive fitness traits in animals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005 , 360, 1489-502	5.8	28
106	Muscularity and eating quality of lambs: Effects of breed, sex and selection of sires using muscularity measurements by computed tomography. <i>Meat Science</i> , 2008 , 79, 105-12	6.4	27
105	Accuracy of in vivo muscularity indices measured by computed tomography and their association with carcass quality in lambs. <i>Meat Science</i> , 2007 , 75, 533-42	6.4	26
104	Breeding for resistance to footrot--the use of hoof lesion scoring to quantify footrot in sheep. <i>Veterinary Research Communications</i> , 2008 , 32, 583-9	2.9	25
103	Marker-assisted introgression of the Compact mutant myostatin allele <i>Mstn</i> Cmpt-dl1Abc into a mouse line with extreme growth effects on body composition and muscularity. <i>Genetical Research</i> , 2004 , 84, 161-73	1.1	25
102	Prediction of intramuscular fat content using CT scanning of packaged lamb cuts and relationships with meat eating quality. <i>Meat Science</i> , 2017 , 123, 112-119	6.4	24
101	Genetic and phenotypic aspects of foot lesion scores in sheep of different breeds and ages. <i>Animal</i> , 2008 , 2, 1289-96	3.1	23
100	In vivo measurements of muscle volume by automatic image analysis of spiral computed tomography scans. <i>Animal Science</i> , 2006 , 82, 545-553		22
99	Polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) assay for the mouse leptin receptor (<i>Lepr</i> (db)) mutation. <i>Laboratory Animals</i> , 1999 , 33, 380-4	2.6	22
98	Genetic parameters for fitness and neonatal behavior traits in sheep. <i>Behavior Genetics</i> , 2012 , 42, 899-912	3.1	21

97	Prediction of lamb carcass composition and meat quality using combinations of post-mortem measurements. <i>Meat Science</i> , 2009 , 81, 711-9	6.4	21
96	Divergent physical activity and novel alternative responses to high fat feeding in polygenic fat and lean mice. <i>Behavior Genetics</i> , 2008 , 38, 292-300	3.2	21
95	Long-term selection for protein amount over 70 generations in mice. <i>Genetical Research</i> , 1998 , 72, 93-100	1	21
94	Effects of feed allowance and indispensable amino acid reduction on feed intake, growth performance and carcass characteristics of growing pigs. <i>PLoS ONE</i> , 2018 , 13, e0195645	3.7	20
93	Effects of low protein diets on pigs with a lean genotype 2. Compositional traits measured with computed tomography (CT). <i>Meat Science</i> , 2013 , 95, 129-36	6.4	20
92	Development and validation of on-farm behavioural scoring systems to assess birth assistance and lamb vigour. <i>Animal</i> , 2011 , 5, 776-83	3.1	20
91	Bayesian meta-analysis of the effect of fasting, transport and lairage times on four attributes of pork meat quality. <i>Meat Science</i> , 2012 , 90, 584-98	6.4	19
90	Effects of selection on food intake in the adult mouse. <i>Journal of Animal Breeding and Genetics</i> , 1997 , 114, 419-34	2.9	19
89	Testing selection indices for sustainable hill sheep production II lamb growth and carcass traits. <i>Animal Science</i> , 2006 , 82, 445-453		19
88	Meta-analysis of the effects of dietary vitamin E supplementation on tocopherol concentration and lipid oxidation in pork. <i>Meat Science</i> , 2011 , 87, 305-14	6.4	18
87	Evaluating the effects of a single copy of a mutation in the myostatin gene (c.*1232G>A) on carcass traits in crossbred lambs. <i>Meat Science</i> , 2011 , 87, 412-8	6.4	18
86	Genetic-statistical analysis of growth in selected and unselected mouse lines. <i>Journal of Experimental Animal Science</i> , 2003 , 42, 218-232		18
85	Mice with low metabolic rates are not susceptible to weight gain when fed a high-fat diet. <i>Obesity</i> , 2005 , 13, 556-66		18
84	Prediction of intramuscular fat levels in Texel lamb loins using X-ray computed tomography scanning. <i>Meat Science</i> , 2014 , 98, 263-71	6.4	17
83	Changes in carcass traits during growth in lambs of two contrasting breeds, measured using computer tomography. <i>Livestock Science</i> , 2007 , 107, 37-52	1.7	17
82	Long-term divergent selection on fatness in mice indicates a regulation system independent of leptin production and reception. <i>FASEB Journal</i> , 2003 , 17, 85-7	0.9	17
81	Genetic relationship between longevity and objectively or subjectively assessed performance traits in sheep using linear censored models. <i>Journal of Animal Science</i> , 2009 , 87, 3482-9	0.7	16
80	Effects of leptin administration on long-term selected fat mice. <i>Genetical Research</i> , 1997 , 69, 215-25	1.1	16

79	In vivo prediction of internal fat weight in Scottish Blackface lambs, using computer tomography. <i>Journal of Animal Breeding and Genetics</i> , 2006 , 123, 105-13	2.9	16
78	A paternally imprinted QTL for mature body mass on mouse chromosome 8. <i>Mammalian Genome</i> , 2005 , 16, 567-77	3.2	16
77	Between- and within-breed variations of spine characteristics in sheep. <i>Journal of Animal Science</i> , 2013 , 91, 995-1004	0.7	15
76	Associations of polymorphisms of the ovine prion protein gene with growth, carcass, and computerized tomography traits in Scottish Blackface lambs. <i>Journal of Animal Science</i> , 2007 , 85, 632-40 ^{0.7}	0.7	15
75	Intrinsic properties of muscle satellite cells are changed in response to long-term selection of mice for different growth traits. <i>Cell and Tissue Research</i> , 2002 , 310, 339-48	4.2	15
74	Genome-wide association study of footrot in Texel sheep. <i>Genetics Selection Evolution</i> , 2015 , 47, 35	4.9	14
73	The prediction of carcass composition and tissue distribution in beef cattle using ultrasound scanning at the start and/or end of the finishing period. <i>Livestock Science</i> , 2010 , 131, 193-202	1.7	13
72	Prediction of lamb meat eating quality in two divergent breeds using various live animal and carcass measurements. <i>Meat Science</i> , 2009 , 83, 366-75	6.4	13
71	Genetic growth potential interacts with nutrition on the ability of mice to cope with <i>Heligmosomoides bakeri</i> infection. <i>Parasitology</i> , 2009 , 136, 1043-55	2.7	13
70	Characterisation of white line degeneration in sheep and evidence for genetic influences on its occurrence. <i>Veterinary Research Communications</i> , 2010 , 34, 481-9	2.9	13
69	Growth selection in mice reveals conserved and redundant expression patterns of the insulin-like growth factor system. <i>General and Comparative Endocrinology</i> , 2004 , 136, 248-59	3	13
68	Genetic and genomic analyses of musculoskeletal differences between BEH and BEL strains. <i>Physiological Genomics</i> , 2013 , 45, 940-7	3.6	12
67	Effects of the Texel muscling quantitative trait locus on carcass traits in crossbred lambs. <i>Animal</i> , 2009 , 3, 189-99	3.1	12
66	The effects of selection indices for sustainable hill sheep production on carcass composition and muscularity of lambs, measured using X-ray computed tomography. <i>Animal</i> , 2008 , 2, 27-35	3.1	12
65	Inbred lines of mice derived from long-term growth selected lines: unique resources for mapping growth genes 2001 , 12, 678		12
64	Analyses of muscle spindles in the soleus of six inbred mouse strains. <i>Journal of Anatomy</i> , 2013 , 223, 289-96	2.9	11
63	Genotypic effects of the Texel Muscling QTL (TM-QTL) on meat quality in purebred Texel lambs. <i>Meat Science</i> , 2011 , 89, 125-32	6.4	11
62	The effect of sex on some carcass and meat quality traits in Texel ewe and ram lambs. <i>Animal Production Science</i> , 2012 , 52, 601	1.4	11

61	Oxidative costs of reproduction in mouse strains selected for different levels of food intake and which differ in reproductive performance. <i>Scientific Reports</i> , 2016 , 6, 36353	4.9	10
60	Evaluating the effects of the c.*1232G > A mutation and TM-QTL in Texel/Welsh Mountain lambs using ultrasound and video image analyses. <i>Small Ruminant Research</i> , 2011 , 99, 99-109	1.7	10
59	Muscle fibre characteristics of two contrasting sheep breeds: Scottish Blackface and Texel. <i>Meat Science</i> , 2009 , 81, 372-81	6.4	10
58	The effects of a loin muscling quantitative trait locus (LoinMAX1) on carcass and VIA-based traits in crossbred lambs. <i>Animal</i> , 2010 , 4, 407-16	3.1	10
57	Leptin levels in lines of mice developed by long-term divergent selection on fat content. <i>Genetical Research</i> , 1999 , 73, 37-44	1.1	10
56	Role of growth hormone in the genetic change of mice divergently selected for body weight and fatness. <i>Genetical Research</i> , 1999 , 74, 351-60	1.1	10
55	Analysis of a long-term selection experiment with an exponential model. <i>Journal of Animal Breeding and Genetics</i> , 1994 , 111, 1-13	2.9	10
54	The relationship between video image analysis (VIA), visual classification, and saleable meat yield of sirloin and fillet cuts of beef carcasses differing in breed and gender. <i>Livestock Science</i> , 2013 , 158, 169-178	1.7	9
53	Genetic parameters for carcass dimensional measurements from Video Image Analysis and their association with conformation and fat class scores. <i>Livestock Science</i> , 2010 , 128, 92-100	1.7	9
52	The effect of the Texel muscling QTL (TM-QTL) on meat quality traits in crossbred lambs. <i>Meat Science</i> , 2010 , 85, 684-90	6.4	9
51	Effects of a quantitative trait locus for increased muscularity on carcass traits measured by subjective conformation and fat class scores and video image analysis in crossbred lambs. <i>Animal</i> , 2009 , 3, 1532-43	3.1	9
50	Relationships between lamb carcass quality traits measured by X-ray computed tomography and current UK hill sheep breeding goals. <i>Animal</i> , 2008 , 2, 36-43	3.1	9
49	Characterization of a major X-linked quantitative trait locus influencing body weight of mice. <i>Journal of Heredity</i> , 2001 , 92, 355-7	2.4	9
48	Traceability of a CCD-Camera System for High-Temperature Measurements. <i>International Journal of Thermophysics</i> , 2015 , 36, 1784-1802	2.1	8
47	Investigation into the presence of genotype by environment interactions (GE) in Scottish Blackface lamb traits. <i>Small Ruminant Research</i> , 2012 , 105, 46-52	1.7	8
46	Interactive effects of protein nutrition, genetic growth potential and <i>Heligmosomoides bakeri</i> infection pressure on resilience and resistance in mice. <i>Parasitology</i> , 2011 , 138, 1305-15	2.7	7
45	Quantitative trait Loci for regional adiposity in mouse lines divergently selected for food intake. <i>Obesity</i> , 2007 , 15, 2994-3004	8	7
44	Effects of thyroid hormone deficiency on mice selected for increased and decreased body weight and fatness. <i>Genetical Research</i> , 1998 , 72, 39-53	1.1	7

43	Predicting the shear value and intramuscular fat in meat from Nellore cattle using Vis-NIR spectroscopy. <i>Meat Science</i> , 2020 , 163, 108077	6.4	7
42	Myostatin dysfunction is associated with reduction in overload induced hypertrophy of soleus muscle in mice. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016 , 26, 894-901	4.6	7
41	Absolute Radiation Thermometry in the NIR. <i>International Journal of Thermophysics</i> , 2017 , 38, 1	2.1	6
40	Prediction of intramuscular fat content and shear force in Texel lamb loins using combinations of different X-ray computed tomography (CT) scanning techniques. <i>Meat Science</i> , 2018 , 140, 78-85	6.4	6
39	Genetic parameters for carcass composition and performance data in crossbred lambs measured by Video Image Analysis. <i>Meat Science</i> , 2009 , 81, 619-25	6.4	6
38	Effects of low protein diets on performance of pigs with a lean genotype between 40 and 115 kg liveweight. <i>Animal Production Science</i> , 2015 , 55, 461	1.4	5
37	Analysis of single nucleotide polymorphisms variation associated with important economic and computed tomography measured traits in Texel sheep. <i>Animal</i> , 2018 , 12, 915-922	3.1	5
36	Genetic improvement of hill sheep Impacts on profitability and greenhouse gas emissions. <i>Small Ruminant Research</i> , 2014 , 120, 27-34	1.7	5
35	Index selection in terminal sires improves lamb performance at finishing. <i>Journal of Animal Science</i> , 2013 , 91, 38-43	0.7	5
34	Use of X-Ray Computed Tomography (CT) in UK Sheep Production and Breeding 2011 ,		5
33	The effect of conditioning period on loin muscle tenderness in crossbred lambs with or without the Texel muscling QTL (TM-QTL). <i>Meat Science</i> , 2010 , 85, 715-20	6.4	5
32	Index selection in terminal sires improves early lamb growth. <i>Journal of Animal Science</i> , 2012 , 90, 142-51	0.7	5
31	Neuropeptide Y gene expression in lines of mice subjected to long-term divergent selection on fat content. <i>Journal of Molecular Endocrinology</i> , 1999 , 23, 77-83	4.5	5
30	Limits to sustained energy intake. XXII. Reproductive performance of two selected mouse lines with different thermal conductance. <i>Journal of Experimental Biology</i> , 2014 , 217, 3718-32	3	4
29	Effect of the Texel muscling QTL (TM-QTL) on spine characteristics in purebred Texel lambs. <i>Small Ruminant Research</i> , 2014 , 117, 34-40	1.7	4
28	The effects of different farm environments on the performance of Texel sheep. <i>Animal</i> , 2015 , 9, 1624-34	3.1	4
27	Characterisation of terminal sire sheep farm systems, based on a range of environmental factors: a case study in the context of genotype by environment interactions using Charollais lambs. <i>Animal</i> , 2014 , 8, 867-76	3.1	4
26	Comparison of repeatability and multiple trait threshold models for litter size in sheep using observed and simulated data in Bayesian analyses. <i>Journal of Animal Breeding and Genetics</i> , 2010 , 127, 261-71	2.9	4

25	Baseline Muscle Mass Is a Poor Predictor of Functional Overload-Induced Gain in the Mouse Model. <i>Frontiers in Physiology</i> , 2016 , 7, 534	4.6	4
24	Prediction of intramuscular fat in lamb by visible and near-infrared spectroscopy in an abattoir environment. <i>Meat Science</i> , 2021 , 171, 108286	6.4	4
23	Myostatin dysfunction impairs force generation in extensor digitorum longus muscle and increases exercise-induced protein efflux from extensor digitorum longus and soleus muscles. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015 , 40, 817-21	3	3
22	Interactive effects of selection for growth and protein supply on the consequences of gastrointestinal parasitism on growth performance in mice. <i>Proceedings of the British Society of Animal Science</i> , 2007 , 2007, 92-92		3
21	Fine mapping of mouse QTLs for fatness using SNP data. <i>OMICS A Journal of Integrative Biology</i> , 2007 , 11, 341-50	3.8	3
20	GENETICS OF BODY COMPOSITION AND METABOLIC RATE 2005 , 131-160		3
19	Inferences on the Genetics of Quantitative Traits from Long-Term Selection in Laboratory and Domestic Animals 169-210		3
18	Heterogeneous variances and genetics by environment interactions in genetic evaluation of crossbred lambs. <i>Animal</i> , 2015 , 9, 380-7	3.1	2
17	The effect of the Texel Muscling QTL on live and carcass weight in Texel lambs. <i>Small Ruminant Research</i> , 2012 , 105, 117-121	1.7	2
16	Evaluation of Video Image Analysis (VIA) technology to predict meat yield of sheep carcasses online under abattoir conditions. <i>Proceedings of the British Society of Animal Science</i> , 2007 , 2007, 108-108		2
15	Identification and reciprocal introgression of a QTL affecting body mass in mice. <i>Genetics Selection Evolution</i> , 2004 , 36, 577-91	4.9	2
14	Zur Selektionswürdigkeit von Merkmalen der Muskelstruktur [Modellversuch mit Labormäusen. <i>Journal of Animal Breeding and Genetics</i> , 1989 , 106, 208-216	2.9	2
13	Evaluating invasive and non-invasive methods to determine fat content in the laboratory mouse. <i>Open Life Sciences</i> , 2015 , 10,	1.2	1
12	Effect and mode of action of the Texel muscling QTL (TM-QTL) on carcass traits in purebred Texel lambs. <i>Animal</i> , 2014 , 8, 1053-61	3.1	1
11	Use of meat quality information in breeding programmes 2009 , 264-291		1
10	The effect of gestational undernutrition on maternal weight change and fetal weight in lines of mice selected for different growth characteristics. <i>British Journal of Nutrition</i> , 2011 , 105, 539-48	3.6	1
9	Prenatal growth in lines of mice selected for body weight. <i>Journal of Animal Breeding and Genetics</i> , 1996 , 113, 535-543	2.9	1
8	Selection for litter weight on the 21st day after long-term selection for first litter performance in laboratory mice. <i>Journal of Animal Breeding and Genetics</i> , 1990 , 107, 161-168	2.9	1

- 7 Genetic evaluation of days to harvest in crossbred lambs. *Journal of Animal Science*, **2013**, 91, 5153-60 0.7
- 6 Investigation into the presence of genotype by environment (GE) interactions in Scottish Blackface lamb weaning traits **2012**, 23-31
- 5 Effects of leptin administration on lines of mice selected long-term for fatness. *Genetical Research*, **1997**, 70, 79-89 1.1
- 4 The effects of three muscling Quantitative Trait Loci on growth patterns of crossbred lambs. *Proceedings of the British Society of Animal Science*, **2009**, 2009, 40-40
- 3 Phenotypic characterisation of extreme growth-selected mouse lines: An important prerequisite for future QTL analysis. *Open Life Sciences*, **2006**, 1, 345-375 1.2
- 2 Effects of thyroid hormone deficiency on mice selected for increased and decreased body weight and fatness. *Genetical Research*, **1998**, 72, 59-72 1.1
- 1 Kreuzungswirkungen bei Merkmalen der Fruchtbarkeit und des Wachstums nach Langzeitselektion auf Erstwurfleistung bei der Labormaus. *Journal of Animal Breeding and Genetics*, **1990**, 107, 241-248 2.9