L BÃ¼nger

List of Publications by Year
in descending order

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134	3,233	159585	197818
papers	citations	30 h-index	49 g-index

141	141	141	3358
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lack of myostatin results in excessive muscle growth but impaired force generation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1835-1840.	7.1	341
2	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. Animal, 2015, 9, 1250-1264.	3.3	135
3	Prediction of sensory characteristics of lamb meat samples by near infrared reflectance spectroscopy. Meat Science, 2007, 76, 509-516.	5.5	124
4	Resting metabolic rate and morphology in mice (Mus musculus) selected for high and low food intake. Journal of Experimental Biology, 2001, 204, 777-784.	1.7	123
5	Resting metabolic rate and morphology in mice (Mus musculus) selected for high and low food intake. Journal of Experimental Biology, 2001, 204, 777-84.	1.7	85
6	Parallel Selection Mapping Using Artificially Selected Mice Reveals Body Weight Control Loci. Current Biology, 2012, 22, 794-800.	3.9	82
7	Mapping of obesity QTLs in a cross between mouse lines divergently selected on fat content. Mammalian Genome, 2000, 11, 2-7.	2.2	74
8	Inbred lines of mice derived from long-term growth selected lines: unique resources for mapping growth genes. Mammalian Genome, 2001, 12, 678-686.	2.2	64
9	A Polygenic Model of the Metabolic Syndrome With Reduced Circulating and Intra-Adipose Glucocorticoid Action. Diabetes, 2005, 54, 3371-3378.	0.6	62
10	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. Meat Science, 2012, 92, 307-318.	5.5	62
11	Effects of low protein diets on pigs with a lean genotype. 1. Carcass composition measured by dissection and muscle fatty acid composition. Meat Science, 2013, 95, 123-128.	5.5	60
12	A genetic investigation of various growth models to describe growth of lambs of two contrasting breeds1. Journal of Animal Science, 2006, 84, 2642-2654.	0.5	58
13	A Stratified Transcriptomics Analysis of Polygenic Fat and Lean Mouse Adipose Tissues Identifies Novel Candidate Obesity Genes. PLoS ONE, 2011, 6, e23944.	2.5	48
14	The use of various live animal measurements to predict carcass and meat quality in two divergent lamb breeds. Meat Science, 2008, 80, 1138-1149.	5.5	45
15	Evaluation of Video Image Analysis (VIA) technology to predict meat yield of sheep carcasses on-line under UK abattoir conditions. Meat Science, 2009, 82, 94-100.	5.5	45
16	Inbred lines of mice derived from long-term divergent selection on fat content and body weight. Mammalian Genome, 1999, 10, 645-648.	2.2	42
17	Effects of the Compact Mutant Myostatin Allele Mstn Cmpt-dl1Abc Introgressed into a High Growth Mouse Line on Skeletal Muscle Cellularity. Journal of Muscle Research and Cell Motility, 2005, 26, 103-112.	2.0	42
18	Meta-analysis of effects of gender in combination with carcass weight and breed on pork quality1. Journal of Animal Science, 2013, 91, 1480-1492.	0.5	41

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19	Comparison of the Richardsonâ€“Lucy method and a classical approach for spectrometer bandpass correction. Metrologia, 2013, 50, 107-118.	1.2	40
20	Microarray gene expression analysis of the Fob3b obesity QTL identifies positional candidate gene Sqle and perturbed cholesterol and glycolysis pathways. Physiological Genomics, 2005, 20, 224-232.	2.3	39
21	Breeding for resistance to mastitis in United Kingdom sheep, a review and economic appraisal. Veterinary Record, 2008, 162, 369-376.	0.3	39
22	Effects of feed allowance and indispensable amino acid reduction on feed intake, growth performance and carcass characteristics of growing pigs. PLoS ONE, 2018, 13, e0195645.	2.5	38
23	Genetic complexity of an obesity QTL (Fob3) revealedby detailed genetic mapping. Mammalian Genome, 2004, 15, 472-481.	2.2	37
24	Factors affecting dystocia and offspring vigour in different sheep genotypes. Preventive Veterinary Medicine, 2012, 103, 257-264.	1.9	37
25	Analysis of response to 20 generations of selection for body composition in mice: fit to infinitesimal model assumptions. Genetics Selection Evolution, 2000, 32, 3-21.	3.0	36
26	Prediction of intramuscular fat content using CT scanning of packaged lamb cuts and relationships with meat eating quality. Meat Science, 2017, 123, 112-119.	5.5	33
27	Thermoregulatory responses of two mouse Mus musculus strains selectively bred for high and low food intake. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2001, 171, 661-668.	1.5	32
28	Relationships between quantitative and reproductive fitness traits in animals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 1489-1502.	4.0	32
29	Muscularity and eating quality of lambs: Effects of breed, sex and selection of sires using muscularity measurements by computed tomography. Meat Science, 2008, 79, 105-112.	5.5	32
30	Accuracy of in vivo muscularity indices measured by computed tomography and their association with carcass quality in lambs. Meat Science, 2007, 75, 533-542.	5.5	31
31	Prediction of lamb carcass composition and meat quality using combinations of post-mortem measurements. Meat Science, 2009, 81, 711-719.	5.5	31
32	Genetic and phenotypic aspects of foot lesion scores in sheep of different breeds and ages. Animal, 2008, 2, 1289-1296.	3.3	30
33	Breeding for resistance to footrot â€“ the use of hoof lesion scoring to quantify footrot in sheep. Veterinary Research Communications, 2008, 32, 583-589.	1.6	29
34	Long-term selection for protein amount over 70 generations in mice. Genetical Research, 1998, 72, 93-109.	0.9	28
35	Marker-assisted introgression of the Compact mutant myostatin allele MstnCmpt-dl1Abc into a mouse line with extreme growth effects on body composition and muscularity. Genetical Research, 2004, 84, 161-173.	0.9	28
36	Genetic Parameters for Fitness and Neonatal Behavior Traits in Sheep. Behavior Genetics, 2012, 42, 899-911.	2.1	27

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37	Effects of selection on food intake in the adult mouse. Journal of Animal Breeding and Genetics, 1997, 114, 419-434.	2.0	26
38	Testing selection indices for sustainable hill sheep production â€“ lamb growth and carcass traits. Animal Science, 2006, 82, 445-453.	1.3	25
39	Between- and within-breed variations of spine characteristics in sheep1. Journal of Animal Science, 2013, 91, 995-1004.	0.5	25
40	Polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) assay for the mouse leptin receptor (Leprdb) mutation. Laboratory Animals, 1999, 33, 380-384.	1.0	24
41	In vivo measurements of muscle volume by automatic image analysis of spiral computed tomography scans. Animal Science, 2006, 82, 545-553.	1.3	24
42	Development and validation of on-farm behavioural scoring systems to assess birth assistance and lamb vigour. Animal, 2011, 5, 776-783.	3.3	24
43	Divergent Physical Activity and Novel Alternative Responses to High Fat Feeding in Polygenic Fat and Lean Mice. Behavior Genetics, 2008, 38, 292-300.	2.1	23
44	Prediction of lamb meat eating quality in two divergent breeds using various live animal and carcass measurements. Meat Science, 2009, 83, 366-375.	5.5	23
45	Meta-analysis of the effects of dietary vitamin E supplementation on Î±-tocopherol concentration and lipid oxidation in pork. Meat Science, 2011, 87, 305-314.	5.5	23
46	Genetic-statistical analysis of growth in selected and unselected mouse lines. Journal of Experimental Animal Science, 2003, 42, 218-232.	0.5	22
47	Evaluating the effects of a single copy of a mutation in the myostatin gene (c.*1232G>A) on carcass traits in crossbred lambs. Meat Science, 2011, 87, 412-418.	5.5	22
48	Bayesian meta-analysis of the effect of fasting, transport and lairage times on four attributes of pork meat quality. Meat Science, 2012, 90, 584-598.	5.5	22
49	Mice with Low Metabolic Rates Are Not Susceptible to Weight Gain When Fed a Highâ€Fat Diet. Obesity, 2005, 13, 556-566.	4.0	21
50	Effects of low protein diets on pigs with a lean genotype 2. Compositional traits measured with computed tomography (CT). Meat Science, 2013, 95, 129-136.	5.5	21
51	Changes in carcass traits during growth in lambs of two contrasting breeds, measured using computer tomography. Livestock Science, 2007, 107, 37-52.	1.6	20
52	Prediction of intramuscular fat levels in Texel lamb loins using X-ray computed tomography scanning. Meat Science, 2014, 98, 263-271.	5.5	20
53	Genome-wide association study of footrot in Texel sheep. Genetics Selection Evolution, 2015, 47, 35.	3.0	20
54	Longâ€term divergent selection on body fatness in mice indicates a regulation system that is independent of leptin production and reception. FASEB Journal, 2003, 17, 85-87.	0.5	18

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55	In vivo prediction of internal fat weight in Scottish Blackface lambs, using computer tomography. Journal of Animal Breeding and Genetics, 2006, 123, 105-113.	2.0	18
56	Analysis of a longâ€term selection experiment with an exponential model. Journal of Animal Breeding and Genetics, 1994, 111, 1-13.	2.0	17
57	Effects of leptin administration on long-term selected fat mice. Genetical Research, 1997, 69, 215-225.	0.9	17
58	A paternally imprinted QTL for mature body mass on mouse Chromosome 8. Mammalian Genome, 2005, 16, 567-577.	2.2	17
59	Genetic relationship between longevity and objectively or subjectively assessed performance traits in sheep using linear censored models1. Journal of Animal Science, 2009, 87, 3482-3489.	0.5	17
60	Effects of the Texel muscling quantitative trait locus on carcass traits in crossbred lambs. Animal, 2009, 3, 189-199.	3.3	17
61	The prediction of carcass composition and tissue distribution in beef cattle using ultrasound scanning at the start and/or end of the finishing period. Livestock Science, 2010, 131, 193-202.	1.6	17
62	Growth selection in mice reveals conserved and redundant expression patterns of the insulin-like growth factor system. General and Comparative Endocrinology, 2004, 136, 248-259.	1.8	16
63	Associations of polymorphisms of the ovine prion protein gene with growth, carcass, and computerized tomography traits in Scottish Blackface lambs1. Journal of Animal Science, 2007, 85, 632-640.	0.5	16
64	Muscle fibre characteristics of two contrasting sheep breeds: Scottish Blackface and Texel. Meat Science, 2009, 81, 372-381.	5.5	16
65	Characterisation of white line degeneration in sheep and evidence for genetic influences on its occurrence. Veterinary Research Communications, 2010, 34, 481-489.	1.6	16
66	The effect of sex on some carcass and meat quality traits in Texel ewe and ram lambs. Animal Production Science, 2012, 52, 601.	1.3	16
67	Oxidative costs of reproduction in mouse strains selected for different levels of food intake and which differ in reproductive performance. Scientific Reports, 2016, 6, 36353.	3.3	16
68	Intrinsic properties of muscle satellite cells are changed in response to long-term selection of mice for different growth traits. Cell and Tissue Research, 2002, 310, 339-348.	2.9	15
69	Genetic growth potential interacts with nutrition on the ability of mice to cope withHeligmosomoides bakeriinfection. Parasitology, 2009, 136, 1043-1055.	1.5	15
70	Role of growth hormone in the genetic change of mice divergently selected for body weight and fatness. Genetical Research, 1999, 74, 351-360.	0.9	14
71	The effects of selection indices for sustainable hill sheep production on carcass composition and muscularity of lambs, measured using X-ray computed tomography. Animal, 2008, 2, 27-35.	3.3	14
72	The effects of a loin muscling quantitative trait locus (LoinMAXâ„¢) on carcass and VIA-based traits in crossbred lambs. Animal, 2010, 4, 407-416.	3.3	14

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73	Genetic parameters for carcass dimensional measurements from Video Image Analysis and their association with conformation and fat class scores. Livestock Science, 2010, 128, 92-100.	1.6	14
74	Genetic and genomic analyses of musculoskeletal differences between BEH and BEL strains. Physiological Genomics, 2013, 45, 940-947.	2.3	14
75	Leptin levels in lines of mice developed by long-term divergent selection on fat content. Genetical Research, 1999, 73, 37-44.	0.9	13
76	Genetic improvement of hill sheep â€“ Impacts on profitability and greenhouse gas emissions. Small Ruminant Research, 2014, 120, 27-34.	1.2	13
77	Relationships between lamb carcass quality traits measured by X-ray computed tomography and current UK hill sheep breeding goals. Animal, 2008, 2, 36-43.	3.3	12
78	Genotypic effects of the Texel Muscling QTL (TM-QTL) on meat quality in purebred Texel lambs. Meat Science, 2011, 89, 125-132.	5.5	12
79	Investigation into the presence of genotype by environment interactions (GÃ—E) in Scottish Blackface lamb traits. Small Ruminant Research, 2012, 105, 46-52.	1.2	12
80	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. Livestock Science, 2013, 158, 169-178.	1.6	12
81	Analyses of muscle spindles in the soleus of six inbred mouse strains. Journal of Anatomy, 2013, 223, 289-296.	1.5	12
82	Analysis of single nucleotide polymorphisms variation associated with important economic and computed tomography measured traits in Texel sheep. Animal, 2018, 12, 915-922.	3.3	12
83	Prediction of intramuscular fat in lamb by visible and near-infrared spectroscopy in an abattoir environment. Meat Science, 2021, 171, 108286.	5.5	12
84	Inbred lines of mice derived from long-term growth selected lines: unique resources for mapping growth genes. Mammalian Genome, 2001, 012, 0678-0686.	2.2	12
85	The effect of the Texel muscling QTL (TM-QTL) on meat quality traits in crossbred lambs. Meat Science, 2010, 85, 684-690.	5.5	11
86	Evaluating the effects of the c.*1232G > A mutation and TM-QTL in TexelÃ—Welsh Mountain lambs using ultrasound and video image analyses. Small Ruminant Research, 2011, 99, 99-109.	1.2	11
87	Predicting the shear value and intramuscular fat in meat from Nellore cattle using Vis-NIR spectroscopy. Meat Science, 2020, 163, 108077.	5.5	11
88	Characterization of a Major X-Linked Quantitative Trait Locus Influencing Body Weight of Mice. , 2001, 92, 355-357.		10
89	Use of X-Ray Computed Tomography (CT) in UK Sheep Production and Breeding. , 0, , .		10
90	Traceability of a CCD-Camera System for High-Temperature Measurements. International Journal of Thermophysics, 2015, 36, 1784-1802.	2.1	10

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91	Effects of thyroid hormone deficiency on mice selected for increased and decreased body weight and fatness. Genetical Research, 1998, 72, 39-53.	0.9	9
92	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. Animal, 2009, 3, 1532-1543.	3.3	9
93	Interactive effects of protein nutrition, genetic growth potential andHeligmosomoides bakeriinfection pressure on resilience and resistance in mice. Parasitology, 2011, 138, 1305-1315.	1.5	9
94	Index selection in terminal sires improves lamb performance at finishing1. Journal of Animal Science, 2013, 91, 38-43.	0.5	9
95	Myostatin dysfunction is associated with reduction in overload induced hypertrophy of soleus muscle in mice. Scandinavian Journal of Medicine and Science in Sports, 2016, 26, 894-901.	2.9	9
96	Effect of the Texel muscling QTL (TM-QTL) on spine characteristics in purebred Texel lambs. Small Ruminant Research, 2014, 117, 34-40.	1.2	8
97	Prediction of intramuscular fat content and shear force in Texel lamb loins using combinations of different X-ray computed tomography (CT) scanning techniques. Meat Science, 2018, 140, 78-85.	5.5	8
98	Quantitative Trait Loci for Regional Adiposity in Mouse Lines Divergently Selected for Food Intake. Obesity, 2007, 15, 2994-3004.	3.0	7
99	Genetic parameters for carcass composition and performance data in crossbred lambs measured by Video Image Analysis. Meat Science, 2009, 81, 619-625.	5.5	7
100	The effect of conditioning period on loin muscle tenderness in crossbred lambs with or without the Texel muscling QTL (TM-QTL). Meat Science, 2010, 85, 715-720.	5.5	7
101	Index selection in terminal sires improves early lamb growth1. Journal of Animal Science, 2012, 90, 142-151.	0.5	7
102	Neuropeptide Y gene expression in lines of mice subjected to long-term divergent selection on fat content. Journal of Molecular Endocrinology, 1999, 23, 77-83.	2.5	6
103	Limits to sustained energy intake. XXII. Reproductive performance of two selected mouse lines with different thermal conductance. Journal of Experimental Biology, 2014, 217, 3718-32.	1.7	6
104	Baseline Muscle Mass Is a Poor Predictor of Functional Overload-Induced Gain in the Mouse Model. Frontiers in Physiology, 2016, 7, 534.	2.8	6
105	Absolute Radiation Thermometry in the NIR. International Journal of Thermophysics, 2017, 38, 1.	2.1	6
106	Comparison of repeatability and multiple trait threshold models for litter size in sheep using observed and simulated data in Bayesian analyses. Journal of Animal Breeding and Genetics, 2010, 127, 261-271.	2.0	5
107	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. Animal, 2014, 8, 867-876.	3.3	5
108	The effects of different farm environments on the performance of Texel sheep. Animal, 2015, 9, 1624-1634.	3.3	5

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109	Effects of low protein diets on performance of pigs with a lean genotype between 40 and 115 kg liveweight. Animal Production Science, 2015, 55, 461.	1.3	5
110	Effect and mode of action of the Texel muscling QTL (TM-QTL) on carcass traits in purebred Texel lambs. Animal, 2014, 8, 1053-1061.	3.3	4
111	Heterogeneous variances and genetics by environment interactions in genetic evaluation of crossbred lambs. Animal, 2015, 9, 380-387.	3.3	4
112	Myostatin dysfunction impairs force generation in extensor digitorum longus muscle and increases exercise-induced protein efflux from extensor digitorum longus and soleus muscles. Applied Physiology, Nutrition and Metabolism, 2015, 40, 817-821.	1.9	4
113	GENETICS OF BODY COMPOSITION AND METABOLIC RATE. , 2005, , 131-160.		4
114	Zur SelektionswÃ¼rdigkeit von Merkmalen der Muskelstruktur â€" Modellversuch mit LabormÃ¤usen. Journal of Animal Breeding and Genetics, 1989, 106, 208-216.	2.0	3
115	Fine Mapping of Mouse QTLs for Fatness Using SNP Data. OMICS A Journal of Integrative Biology, 2007, 11, 341-350.	2.0	3
116	Interactive effects of selection for growth and protein supply on the consequences of gastrointestinal parasitism on growth performance in mice. Proceedings of the British Society of Animal Science, 2007, 2007, 92-92.	0.0	3
117	Use of meat quality information in breeding programmes. , 2009, , 264-291.		3
118	Meta-analysis of effects of dietary vitamin E and post slaughter storage conditions on changes of redness (a*) of pork. Archives Animal Breeding, 2010, 53, 564-577.	1.4	3
119	Selection for litter weight on the 21st day after longâ€term selection for first litter performance in laboratory mice. Journal of Animal Breeding and Genetics, 1990, 107, 161-168.	2.0	2
120	Identification and reciprocal introgression of a QTL affecting body mass in mice. Genetics Selection Evolution, 2004, 36, 577-91.	3.0	2
121	Evaluation of Video Image Analysis (VIA) technology to predict meat yield of sheep carcasses online under abattoir conditions. Proceedings of the British Society of Animal Science, 2007, 2007, 108-108.	0.0	2
122	The effect of the Texel Muscling QTL on live and carcass weight in Texel lambs. Small Ruminant Research, 2012, 105, 117-121.	1.2	2
123	Evaluating invasive and non-invasive methods to determine fat content in the laboratory mouse. Open Life Sciences, 2014, 10, .	1.4	2
124	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.	2.0	1
125	Prenatal growth in lines of mice selected for body weight. Journal of Animal Breeding and Genetics, 1996, 113, 535-543.	2.0	1
126	The effect of gestational undernutrition on maternal weight change and fetal weight in lines of mice selected for different growth characteristics. British Journal of Nutrition, 2011, 105, 539-548.	2.3	1

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127	Genetic evaluation of days to harvest in crossbred lambs1. Journal of Animal Science, 2013, 91, 5153-5160.	0.5	1
128	Identification and reciprocal introgression of a QTL affecting body mass in mice. Genetics Selection Evolution, 2004, 36, 577-591.	3.0	1
129	Effects of leptin administration on lines of mice selected long-term for fatness. Genetical Research, 1997, 70, 79-89.	0.9	0
130	Effects of thyroid hormone deficiency on mice selected for increased and decreased body weight and fatness. Genetical Research, 1998, 72, 59-72.	0.9	0
131	Phenotypic characterisation of extreme growth-selected mouse lines: An important prerequisite for future QTL analysis. Open Life Sciences, 2006, 1, 345-375.	1.4	0
132	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.	0.0	0
133	Immune responses to macroparasites are sensitive to the interaction between genetic growth potential and protein nutrition in mice. Proceedings of the Nutrition Society, 2009, 68, .	1.0	0
134	Investigation into the presence of genotype by environment (GÃ—E) interactions in Scottish Blackface lamb weaning traits. , 2012, , 23-31.		0