

Klaus Wimmers

List of Publications by Citations

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311
papers

4,472
citations

31
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46
g-index

330
ext. papers

5,506
ext. citations

3.6
avg, IF

5.38
L-index

#	Paper	IF	Citations
311	Empirical evaluation of genetic clustering methods using multilocus genotypes from 20 chicken breeds. <i>Genetics</i> , 2001 , 159, 699-713	4	268
310	A genome scan reveals QTL for growth, fatness, leanness and meat quality in a Duroc-Pietrain resource population. <i>Animal Genetics</i> , 2007 , 38, 241-52	2.5	120
309	Genetic distinctness of African, Asian and South American local chickens. <i>Animal Genetics</i> , 2000 , 31, 159-65	6.5	74
308	Relationship between myosin heavy chain isoform expression and muscling in several diverse pig breeds. <i>Journal of Animal Science</i> , 2008 , 86, 795-803	0.7	70
307	Isolation and characterization of 18 microsatellites in the Peking duck (<i>Anas platyrhynchos</i>) and their application in other waterfowl species. <i>Molecular Ecology Notes</i> , 2003 , 3, 224-227		69
306	Trait correlated expression combined with expression QTL analysis reveals biological pathways and candidate genes affecting water holding capacity of muscle. <i>BMC Genomics</i> , 2008 , 9, 367	4.5	66
305	QTL for microstructural and biophysical muscle properties and body composition in pigs. <i>BMC Genetics</i> , 2006 , 7, 15	2.6	61
304	Pigs' aggressive temperament affects pre-slaughter mixing aggression, stress and meat quality. <i>Animal</i> , 2010 , 4, 604-16	3.1	59
303	Association of HPA axis-related genetic variation with stress reactivity and aggressive behaviour in pigs. <i>BMC Genetics</i> , 2010 , 11, 74	2.6	59
302	Transcriptome profiling of gill tissue in regionally bred and globally farmed rainbow trout strains reveals different strategies for coping with thermal stress. <i>Marine Biotechnology</i> , 2013 , 15, 445-60	3.4	58
301	Associations of functional candidate genes derived from gene-expression profiles of prenatal porcine muscle tissue with meat quality and muscle deposition. <i>Animal Genetics</i> , 2007 , 38, 474-84	2.5	55
300	Maternal dietary protein restriction and excess affects offspring gene expression and methylation of non-SMC subunits of condensin I in liver and skeletal muscle. <i>Epigenetics</i> , 2012 , 7, 239-52	5.7	54
299	Identification of genes differentially expressed during prenatal development of skeletal muscle in two pig breeds differing in muscularity. <i>BMC Developmental Biology</i> , 2007 , 7, 109	3.1	53
298	Combined line-cross and half-sib QTL analysis in Duroc-Pietrain population. <i>Mammalian Genome</i> , 2008 , 19, 429-38	3.2	49
297	A comparative expression analysis of gene transcripts in post-fertilization developmental stages of bovine embryos produced in vitro or in vivo. <i>Reproduction in Domestic Animals</i> , 2004 , 39, 396-404	1.6	49
296	Population structure and genetic diversity of 25 Russian sheep breeds based on whole-genome genotyping. <i>Genetics Selection Evolution</i> , 2018 , 50, 29	4.9	44
295	The genetics of feed conversion efficiency traits in a commercial broiler line. <i>Scientific Reports</i> , 2015 , 5, 16387	4.9	43

294	Genomic selection using low density marker panels with application to a sire line in pigs. <i>Genetics Selection Evolution</i> , 2013 , 45, 28	4.9	42
293	Candidate gene markers for sperm quality and fertility of boar. <i>Animal Reproduction Science</i> , 2006 , 92, 349-63	2.1	41
292	Advances in research on the prenatal development of skeletal muscle in animals in relation to the quality of muscle-based food. I. Regulation of myogenesis and environmental impact. <i>Animal</i> , 2011 , 5, 703-17	3.1	39
291	Microarray-based transcriptional profiling of Eimeria bovis-infected bovine endothelial host cells. <i>Veterinary Research</i> , 2010 , 41, 70	3.8	39
290	Correlated mRNAs and miRNAs from co-expression and regulatory networks affect porcine muscle and finally meat properties. <i>BMC Genomics</i> , 2013 , 14, 533	4.5	35
289	Integrating expression profiling and whole-genome association for dissection of fat traits in a porcine model. <i>Journal of Lipid Research</i> , 2011 , 52, 668-78	6.3	35
288	Comparing Two Intestinal Porcine Epithelial Cell Lines (IPECs): Morphological Differentiation, Function and Metabolism. <i>PLoS ONE</i> , 2015 , 10, e0132323	3.7	34
287	Discovery of candidate genes for muscle traits based on GWAS supported by eQTL-analysis. <i>International Journal of Biological Sciences</i> , 2014 , 10, 327-37	11.2	34
286	High-density genotyping reveals signatures of selection related to acclimation and economically important traits in 15 local sheep breeds from Russia. <i>BMC Genomics</i> , 2019 , 20, 294	4.5	33
285	Porcine muscle sensory attributes associate with major changes in gene networks involving CAPZB, ANKRD1, and CTBP2. <i>Functional and Integrative Genomics</i> , 2009 , 9, 455-71	3.8	33
284	Expression profiling of muscle reveals transcripts differentially expressed in muscle that affect water-holding capacity of pork. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 10311-7	5.7	33
283	Pre- and postnatal hepatic gene expression profiles of two pig breeds differing in body composition: insight into pathways of metabolic regulation. <i>Physiological Genomics</i> , 2007 , 29, 267-79	3.6	33
282	The effect of nitric oxide inhibition and temporal expression patterns of the mRNA and protein products of nitric oxide synthase genes during in vitro development of bovine pre-implantation embryos. <i>Reproduction in Domestic Animals</i> , 2006 , 41, 501-9	1.6	33
281	MicroRNAs Regulate Cellular ATP Levels by Targeting Mitochondrial Energy Metabolism Genes during C2C12 Myoblast Differentiation. <i>PLoS ONE</i> , 2015 , 10, e0127850	3.7	32
280	Exploring the genetics of feed efficiency and feeding behaviour traits in a pig line highly selected for performance characteristics. <i>Molecular Genetics and Genomics</i> , 2017 , 292, 1001-1011	3.1	31
279	Dietary protein restriction and excess of pregnant German Landrace sows induce changes in hepatic gene expression and promoter methylation of key metabolic genes in the offspring. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 484-95	6.3	31
278	Advances in research on the prenatal development of skeletal muscle in animals in relation to the quality of muscle-based food. II--Genetic factors related to animal performance and advances in methodology. <i>Animal</i> , 2011 , 5, 718-30	3.1	30
277	Bovine NALP5, NALP8, and NALP9 genes: assignment to a QTL region and the expression in adult tissues, oocytes, and preimplantation embryos. <i>Biology of Reproduction</i> , 2006 , 74, 577-84	3.9	30

276	Molecular heterogeneities of adipose depots - potential effects on adipose-muscle cross-talk in humans, mice and farm animals. <i>Journal of Genomics</i> , 2014 , 2, 31-44	0.9	30
275	Possible Molecular Mechanisms by Which an Essential Oil Blend from Star Anise, Rosemary, Thyme, and Oregano and Saponins Increase the Performance and Ileal Protein Digestibility of Growing Broilers. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 6821-6830	5.7	29
274	Differential expression of miRNAs and their target mRNAs in endometria prior to maternal recognition of pregnancy associates with endometrial receptivity for in vivo- and in vitro-produced bovine embryos. <i>Biology of Reproduction</i> , 2014 , 91, 135	3.9	29
273	Gene expression and DNA-methylation of bovine pretransfer endometrium depending on its receptivity after in vitro-produced embryo transfer. <i>PLoS ONE</i> , 2012 , 7, e42402	3.7	29
272	Polymorphisms in candidate genes as markers for sperm quality and boar fertility. <i>Animal Genetics</i> , 2005 , 36, 152-5	2.5	29
271	A genome-wide association study to detect QTL for commercially important traits in Swiss Large White boars. <i>PLoS ONE</i> , 2013 , 8, e55951	3.7	29
270	Integrative approach using liver and duodenum RNA-Seq data identifies candidate genes and pathways associated with feed efficiency in pigs. <i>Scientific Reports</i> , 2018 , 8, 558	4.9	28
269	Peptidylarginine deiminase gene is differentially expressed in freshwater and brackish water rainbow trout. <i>Molecular Biology Reports</i> , 2010 , 37, 2333-9	2.8	28
268	Molecular genetic analysis of porcine mannose-binding lectin genes, MBL1 and MBL2, and their association with complement activity. <i>International Journal of Immunogenetics</i> , 2007 , 34, 55-63	2.3	28
267	QTL for traits related to humoral immune response estimated from data of a porcine F2 resource population. <i>International Journal of Immunogenetics</i> , 2009 , 36, 141-51	2.3	27
266	Stage-specific expressed sequence tags obtained during preimplantation bovine development by differential display RT-PCR and suppression subtractive hybridization. <i>Prenatal Diagnosis</i> , 2002 , 22, 1135-42	3.2	27
265	Identification of expression QTL (eQTL) of genes expressed in porcine M. longissimus dorsi and associated with meat quality traits. <i>BMC Genomics</i> , 2010 , 11, 572	4.5	26
264	A substitution in the ligand binding domain of the porcine glucocorticoid receptor affects activity of the adrenal gland. <i>PLoS ONE</i> , 2012 , 7, e45518	3.7	25
263	RNA-seq of muscle from pigs divergent in feed efficiency and product quality identifies differences in immune response, growth, and macronutrient and connective tissue metabolism. <i>BMC Genomics</i> , 2018 , 19, 791	4.5	25
262	Toward improved phosphorus efficiency in monogastrics-interplay of serum, minerals, bone, and immune system after divergent dietary phosphorus supply in swine. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R917-25	3.2	24
261	Gene regulation of intestinal porcine epithelial cells IPEC-J2 is dependent on the site of deoxynivalenol toxicological action. <i>PLoS ONE</i> , 2012 , 7, e34136	3.7	24
260	Elucidating molecular networks that either affect or respond to plasma cortisol concentration in target tissues of liver and muscle. <i>Genetics</i> , 2012 , 192, 1109-22	4	24
259	QTL for the heritable inverted teat defect in pigs. <i>Mammalian Genome</i> , 2008 , 19, 127-38	3.2	24

258	Genetic aspects of feed efficiency and reduction of environmental footprint in broilers: a review. <i>Journal of Applied Genetics</i> , 2017 , 58, 487-498	2.5	23
257	Methylating micronutrient supplementation during pregnancy influences foetal hepatic gene expression and IGF signalling and increases foetal weight. <i>European Journal of Nutrition</i> , 2016 , 55, 1717-27	5.2	23
256	Whole-genome SNP analysis elucidates the genetic structure of Russian cattle and its relationship with Eurasian taurine breeds. <i>Genetics Selection Evolution</i> , 2018 , 50, 37	4.9	23
255	Microarray analysis reveals genes and functional networks relevant to the predisposition to inverted teats in pigs. <i>Journal of Animal Science</i> , 2012 , 90, 1-15	0.7	23
254	Functional genomics and genetical genomics approaches towards elucidating networks of genes affecting meat performance in pigs. <i>Briefings in Functional Genomics</i> , 2010 , 9, 251-8	4.9	23
253	Dual effect of a single nucleotide polymorphism in the first intron of the porcine secreted phosphoprotein 1 gene: allele-specific binding of C/EBP beta and activation of aberrant splicing. <i>BMC Molecular Biology</i> , 2009 , 10, 96	4.5	23
252	Mapping of 93 porcine ESTs preferentially expressed in liver. <i>Mammalian Genome</i> , 2001 , 12, 869-72	3.2	23
251	Lower dietary phosphorus supply in pigs match both animal welfare aspects and resource efficiency. <i>Ambio</i> , 2018 , 47, 20-29	6.5	22
250	Mapping quantitative trait loci for innate immune response in the pig. <i>International Journal of Immunogenetics</i> , 2011 , 38, 121-31	2.3	22
249	Somatic cytochrome c (CYCS) gene expression and promoter-specific DNA methylation in a porcine model of prenatal exposure to maternal dietary protein excess and restriction. <i>British Journal of Nutrition</i> , 2012 , 107, 791-9	3.6	22
248	Evidence for effects of testis and epididymis expressed genes on sperm quality and boar fertility traits. <i>Reproduction in Domestic Animals</i> , 2006 , 41, 538-43	1.6	22
247	SNP detection and genetic mapping of porcine genes encoding enzymes in hepatic metabolic pathways and evaluation of linkage with carcass traits. <i>Animal Genetics</i> , 2005 , 36, 477-83	2.5	22
246	Integrated Genome-wide association and hypothalamus eQTL studies indicate a link between the circadian rhythm-related gene PER1 and coping behavior. <i>Scientific Reports</i> , 2015 , 5, 16264	4.9	21
245	Intrafallopian transfer of gametes and early stage embryos for in vivo culture in cattle. <i>Theriogenology</i> , 2005 , 64, 30-40	2.8	21
244	Effects of different laser-drilled openings in the zona pellucida on hatching of in vitro-produced cattle blastocysts. <i>Fertility and Sterility</i> , 2003 , 80 Suppl 2, 714-9	4.8	21
243	Association and expression quantitative trait loci (eQTL) analysis of porcine AMBP, GC and PPP1R3B genes with meat quality traits. <i>Molecular Biology Reports</i> , 2012 , 39, 4809-21	2.8	20
242	Detection of quantitative trait loci for carcass traits in the pig by using AFLP. <i>Mammalian Genome</i> , 2002 , 13, 206-10	3.2	20
241	Identification of common regulators of genes in co-expression networks affecting muscle and meat properties. <i>PLoS ONE</i> , 2015 , 10, e0123678	3.7	19

240	Quantitative trait loci analysis for leg weakness-related traits in a Duroc ×Pietrain crossbred population. <i>Genetics Selection Evolution</i> , 2011 , 43, 13	4.9	19
239	Identification of functional candidate genes for body composition by expression analyses and evidencing impact by association analysis and mapping. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2005 , 1730, 31-40		19
238	Whole genome population genetics analysis of Sudanese goats identifies regions harboring genes associated with major traits. <i>BMC Genetics</i> , 2017 , 18, 92	2.6	18
237	Polymorphism and expression of the porcine Tenascin C gene associated with meat and carcass quality. <i>Meat Science</i> , 2011 , 89, 76-83	6.4	18
236	Association of PPARGC1A and CAPNS1 gene polymorphisms and expression with meat quality traits in pigs. <i>Meat Science</i> , 2011 , 89, 478-85	6.4	18
235	Four loci differentially expressed in muscle tissue depending on water-holding capacity are associated with meat quality in commercial pig herds. <i>Molecular Biology Reports</i> , 2010 , 37, 595-601	2.8	18
234	Expression of homeobox-containing genes in cDNA libraries derived from cattle oocytes and preimplantation stage embryo. <i>Molecular Reproduction and Development</i> , 2001 , 60, 297-301	2.6	18
233	A source for expression profiling in single preimplantation bovine embryos. <i>Theriogenology</i> , 2002 , 57, 1611-24	2.8	18
232	Epigenome-wide skeletal muscle DNA methylation profiles at the background of distinct metabolic types and ryanodine receptor variation in pigs. <i>BMC Genomics</i> , 2019 , 20, 492	4.5	17
231	Identification of differentially expressed protective genes in liver of two rainbow trout strains. <i>Veterinary Immunology and Immunopathology</i> , 2012 , 145, 305-15	2	17
230	Identification and quantification of differentially expressed transcripts in in vitro-produced bovine preimplantation stage embryos. <i>Molecular Reproduction and Development</i> , 2003 , 66, 105-14	2.6	17
229	Application of differential display RT-PCR to identify porcine liver ESTs. <i>Gene</i> , 2001 , 280, 75-85	3.8	17
228	A high protein diet during pregnancy affects hepatic gene expression of energy sensing pathways along ontogenesis in a porcine model. <i>PLoS ONE</i> , 2011 , 6, e21691	3.7	17
227	RNA-Seq of Liver From Pigs Divergent in Feed Efficiency Highlights Shifts in Macronutrient Metabolism, Hepatic Growth and Immune Response. <i>Frontiers in Genetics</i> , 2019 , 10, 117	4.5	17
226	Genome wide association study of body weight and feed efficiency traits in a commercial broiler chicken population, a re-visitation. <i>Scientific Reports</i> , 2019 , 9, 922	4.9	16
225	Pre- and post-natal muscle microRNA expression profiles of two pig breeds differing in muscularity. <i>Gene</i> , 2015 , 561, 190-8	3.8	16
224	A genetical genomics approach reveals new candidates and confirms known candidate genes for drip loss in a porcine resource population. <i>Mammalian Genome</i> , 2013 , 24, 416-26	3.2	16
223	Strategies towards Improved Feed Efficiency in Pigs Comprise Molecular Shifts in Hepatic Lipid and Carbohydrate Metabolism. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	16

222	A low protein diet during pregnancy provokes a lasting shift of hepatic expression of genes related to cell cycle throughout ontogenesis in a porcine model. <i>BMC Genomics</i> , 2012 , 13, 93	4.5	16
221	MARCH5 gene is duplicated in rainbow trout, but only fish-specific gene copy is up-regulated after VHSV infection. <i>Fish and Shellfish Immunology</i> , 2011 , 31, 1041-50	4.3	16
220	Characterization of dehydrodolichyl diphosphate synthase gene in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2009 , 152, 260-5	3.3	16
219	Expression of the prion protein gene (PRNP) and cellular prion protein (PrPc) in cattle and sheep fetuses and maternal tissues during pregnancy. <i>Gene Expression</i> , 2007 , 13, 283-97	3.4	16
218	Quantitative expression analysis of blastocyst-derived gene transcripts in preimplantation developmental stages of in vitro-produced bovine embryos using real-time polymerase chain reaction technology. <i>Reproduction, Fertility and Development</i> , 2004 , 16, 753-62	1.8	16
217	Molecular characterization of the pig C3 gene and its association with complement activity. <i>Immunogenetics</i> , 2003 , 54, 714-24	3.2	16
216	Gene expression profile of <i>Musculus longissimus dorsi</i> in bulls of a Charolais × Holstein F2-cross with divergent intramuscular fat content. <i>Genomics Data</i> , 2016 , 7, 131-3		16
215	Genome-wide association analysis and functional annotation of positional candidate genes for feed conversion efficiency and growth rate in pigs. <i>PLoS ONE</i> , 2017 , 12, e0173482	3.7	15
214	MicroRNA-mRNA regulatory networking fine-tunes the porcine muscle fiber type, muscular mitochondrial respiratory and metabolic enzyme activities. <i>BMC Genomics</i> , 2016 , 17, 531	4.5	15
213	Transcript variants of the porcine glucocorticoid receptor gene (NR3C1). <i>General and Comparative Endocrinology</i> , 2013 , 189, 127-33	3	15
212	Transcriptional profiling and miRNA-dependent regulatory network analysis of longissimus dorsi muscle during prenatal and adult stages in two distinct pig breeds. <i>Animal Genetics</i> , 2013 , 44, 398-407	2.5	15
211	Transcriptomic response of porcine PBMCs to vaccination with tetanus toxoid as a model antigen. <i>PLoS ONE</i> , 2013 , 8, e58306	3.7	15
210	Differential mRNA expression of genes in the porcine adrenal gland associated with psychosocial stress. <i>Journal of Molecular Endocrinology</i> , 2011 , 46, 165-74	4.5	15
209	Molecular characterization and evidencing of the porcine CRH gene as a functional-positional candidate for growth and body composition. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 342, 394-405	3.4	15
208	Transcript profiles of some developmentally important genes detected in bovine oocytes and in vitro-produced blastocysts using RNA amplification and cDNA microarrays. <i>Reproduction in Domestic Animals</i> , 2006 , 41, 527-34	1.6	15
207	Expression of retinoid X receptor transcripts and their significance for developmental competence in in vitro-produced pre-implantation-stage bovine embryos. <i>Reproduction in Domestic Animals</i> , 2005 , 40, 177-83	1.6	15
206	The fight-or-flight response is associated with PBMC expression profiles related to immune defence and recovery in swine. <i>PLoS ONE</i> , 2015 , 10, e0120153	3.7	15
205	Annotation and <i>in silico</i> localization of the Affymetrix GeneChip Porcine Genome Array. <i>Archives Animal Breeding</i> , 2010 , 53, 230-238	1.6	15

204	Deoxynivalenol affects the composition of the basement membrane proteins and influences en route the migration of CD16(+) cells into the intestinal epithelium. <i>Mycotoxin Research</i> , 2013 , 29, 245-54 ⁴		14
203	Gene expression profiling of porcine mammary epithelial cells after challenge with <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> in vitro. <i>Veterinary Research</i> , 2015 , 46, 50	3.8	14
202	Expression of the porcine adrenergic receptor beta 2 gene in longissimus dorsi muscle is affected by cis-regulatory DNA variation. <i>Animal Genetics</i> , 2009 , 40, 80-9	2.5	14
201	Mapping of quantitative trait loci for mycoplasma and tetanus antibodies and interferon-gamma in a porcine F(2) Duroc x Pietrain resource population. <i>Mammalian Genome</i> , 2010 , 21, 409-18	3.2	14
200	Molecular cloning and sequencing of porcine C5 gene and its association with immunological traits. <i>Immunogenetics</i> , 2004 , 55, 811-7	3.2	14
199	Single- and Bayesian Multi-Marker Genome-Wide Association for Haematological Parameters in Pigs. <i>PLoS ONE</i> , 2016 , 11, e0159212	3.7	14
198	Breed, Diet, and Interaction Effects on Adipose Tissue Transcriptome in Iberian and Duroc Pigs Fed Different Energy Sources. <i>Genes</i> , 2019 , 10,	4.2	13
197	Analysis of Candidate Genes for Growth and Milk Performance Traits in the Egyptian Barki Sheep. <i>Animals</i> , 2020 , 10,	3.1	13
196	Bridging Gaps in the Agricultural Phosphorus Cycle from an Animal Husbandry Perspective—the Case of Pigs and Poultry. <i>Sustainability</i> , 2018 , 10, 1825	3.6	13
195	Lowered dietary phosphorus affects intestinal and renal gene expression to maintain mineral homeostasis with immunomodulatory implications in weaned piglets. <i>BMC Genomics</i> , 2018 , 19, 207	4.5	13
194	Genetic architecture and regulatory impact on hepatic microRNA expression linked to immune and metabolic traits. <i>Open Biology</i> , 2017 , 7,	7	13
193	Muscle Transcriptional Profile Based on Muscle Fiber, Mitochondrial Respiratory Activity, and Metabolic Enzymes. <i>International Journal of Biological Sciences</i> , 2015 , 11, 1348-62	11.2	13
192	Genome-wide association analysis for growth, muscularity and meat quality in Pietrain pigs. <i>Animal Genetics</i> , 2014 , 45, 350-6	2.5	13
191	PBMC transcription profiles of pigs with divergent humoral immune responses and lean growth performance. <i>International Journal of Biological Sciences</i> , 2013 , 9, 907-16	11.2	13
190	Transcriptional response of skeletal muscle to a low-protein gestation diet in porcine offspring accumulates in growth- and cell cycle-regulating pathways. <i>Physiological Genomics</i> , 2012 , 44, 811-8	3.6	13
189	Identification of novel putative adipomyokines by a cross-species annotation of secretomes and expression profiles. <i>Archives of Physiology and Biochemistry</i> , 2015 , 121, 194-205	2.2	12
188	Analysis of meat quality traits and gene expression profiling of pigs divergent in residual feed intake. <i>Meat Science</i> , 2018 , 137, 265-274	6.4	12
187	Transcriptome profiling of <i>Musculus longissimus dorsi</i> in two cattle breeds with different intramuscular fat deposition. <i>Genomics Data</i> , 2016 , 7, 109-11		12

186	Genetic Contribution to Variation in Blood Calcium, Phosphorus, and Alkaline Phosphatase Activity in Pigs. <i>Frontiers in Genetics</i> , 2019 , 10, 590	4.5	12
185	Genome-Wide Association Identifies TBX5 as Candidate Gene for Osteochondrosis Providing a Functional Link to Cartilage Perfusion as Initial Factor. <i>Frontiers in Genetics</i> , 2013 , 4, 78	4.5	12
184	Expression quantitative trait loci analysis of genes in porcine muscle by quantitative real-time RT-PCR compared to microarray data. <i>Heredity</i> , 2010 , 105, 309-17	3.6	12
183	Association of the FADS2 gene with omega-6 and omega-3 PUFA Concentration in the egg yolk of Japanese quail. <i>Animal Biotechnology</i> , 2007 , 18, 189-201	1.4	12
182	Comparison of multilocus DNA fingerprints and microsatellites in an estimate of genetic distance in chicken. <i>Journal of Heredity</i> , 1999 , 90, 656-9	2.4	12
181	Implication of transcriptome profiling of spermatozoa for stallion fertility. <i>Reproduction, Fertility and Development</i> , 2018 , 30, 1087-1098	1.8	11
180	KRT8, FAF1 and PTH1R gene polymorphisms are associated with leg weakness traits in pigs. <i>Molecular Biology Reports</i> , 2013 , 40, 2859-66	2.8	11
179	A study based on records taken at time of hoof trimming reveals a strong association between the IQ motif-containing GTPase-activating protein 1 (IQGAP1) gene and sole hemorrhage in Holstein cattle. <i>Journal of Dairy Science</i> , 2014 , 97, 507-19	4	11
178	A gestational high protein diet affects the abundance of muscle transcripts related to cell cycle regulation throughout development in porcine progeny. <i>PLoS ONE</i> , 2012 , 7, e34519	3.7	11
177	Population Structure and Genetic Diversity of Sheep Breeds in the Kyrgyzstan. <i>Frontiers in Genetics</i> , 2019 , 10, 1311	4.5	11
176	Host-Microbiota Interactions in Ileum and Caecum of Pigs Divergent in Feed Efficiency Contribute to Nutrient Utilization. <i>Microorganisms</i> , 2020 , 8,	4.9	10
175	Identification of the Key Molecular Drivers of Phosphorus Utilization Based on Host miRNA-mRNA and Gut Microbiome Interactions. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
174	A naturally hypersensitive glucocorticoid receptor elicits a compensatory reduction of hypothalamus-pituitary-adrenal axis activity early in ontogeny. <i>Open Biology</i> , 2016 , 6,	7	10
173	TRIENNIAL GROWTH AND DEVELOPMENT SYMPOSIUM: Factors influencing bovine intramuscular adipose tissue development and cellularity. <i>Journal of Animal Science</i> , 2017 , 95, 2244-2254	0.7	10
172	MicroRNA expression profiling of porcine mammary epithelial cells after challenge with <i>Escherichia coli</i> in vitro. <i>BMC Genomics</i> , 2017 , 18, 660	4.5	10
171	Breed-specific transcriptome response of spleen from six to eight week old piglet after infection with <i>Streptococcus suis</i> type 2. <i>Molecular Biology Reports</i> , 2014 , 41, 7865-73	2.8	10
170	Association of TLR4 polymorphism with cytokine expression level and pulmonary lesion score in pigs. <i>Molecular Biology Reports</i> , 2012 , 39, 7003-9	2.8	10
169	Effect of gestational protein deficiency and excess on hepatic expression of genes related to cell cycle and proliferation in offspring from late gestation to finishing phase in pig. <i>Molecular Biology Reports</i> , 2012 , 39, 7095-104	2.8	10

168	Association of corticotropin-releasing hormone gene variation with performance and meat quality traits in commercial pig lines. <i>Animal Genetics</i> , 2006 , 37, 509-12	2.5	10
167	Altered incubation temperatures between embryonic Days 7 and 13 influence the weights and the mitochondrial respiratory and enzyme activities in breast and leg muscles of broiler embryos. <i>Molecular Reproduction and Development</i> , 2016 , 83, 71-8	2.6	10
166	Air-liquid interface enhances oxidative phosphorylation in intestinal epithelial cell line IPEC-J2. <i>Cell Death Discovery</i> , 2017 , 3, 17001	6.9	9
165	Retrotransposons evolution and impact on lncRNA and protein coding genes in pigs. <i>Mobile DNA</i> , 2019 , 10, 19	4.4	9
164	Physiological and Transcriptional Responses in Weaned Piglets Fed Diets with Varying Phosphorus and Calcium Levels. <i>Nutrients</i> , 2019 , 11,	6.7	9
163	Feed-efficient pigs exhibit molecular patterns allowing a timely circulation of hormones and nutrients. <i>Physiological Genomics</i> , 2018 , 50, 726-734	3.6	9
162	DNA methylation analysis of porcine mammary epithelial cells reveals differentially methylated loci associated with immune response against Escherichia coli challenge. <i>BMC Genomics</i> , 2019 , 20, 623	4.5	9
161	Association and expression study of MMP3, TGF β 1 and COL10A1 as candidate genes for leg weakness-related traits in pigs. <i>Molecular Biology Reports</i> , 2012 , 39, 3893-901	2.8	9
160	Comparative molecular characterization of the regucalcin (RGN) gene in rainbow trout (<i>Oncorhynchus mykiss</i>) and maraena whitefish (<i>Coregonus maraena</i>). <i>Molecular Biology Reports</i> , 2012 , 39, 4291-300	2.8	9
159	Genetics of body fat mass and related traits in a pig population selected for leanness. <i>Scientific Reports</i> , 2017 , 7, 9118	4.9	9
158	Mitochondrial-nuclear crosstalk, haplotype and copy number variation distinct in muscle fiber type, mitochondrial respiratory and metabolic enzyme activities. <i>Scientific Reports</i> , 2017 , 7, 14024	4.9	9
157	Investigations on the pattern of linkage disequilibrium and selection signatures in the genomes of German PiErain pigs. <i>Journal of Animal Breeding and Genetics</i> , 2014 , 131, 473-82	2.9	9
156	Expression of microRNAs is not related to increased expression of ZDHHC9 in hind leg muscles of splay leg piglets. <i>Molecular and Cellular Probes</i> , 2010 , 24, 32-7	3.3	9
155	Association of ZYX polymorphisms with carcass and meat quality traits in commercial pigs. <i>Meat Science</i> , 2010 , 84, 159-64	6.4	9
154	Association of parathyroid hormone-like hormone (PTH LH) and its receptor (PTHR1) with the number of functional and inverted teats in pigs. <i>Journal of Animal Breeding and Genetics</i> , 2009 , 126, 237-41	2.9	9
153	Identification of candidate genes for congenital splay leg in piglets by alternative analysis of DNA microarray data. <i>International Journal of Biological Sciences</i> , 2009 , 5, 331-7	11.2	9
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151	BF, HP, DQB and DRB are associated with haemolytic complement activity, acute phase protein reaction and antibody response in the pig. <i>Veterinary Immunology and Immunopathology</i> , 2004 , 99, 215-23	2.3	9

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149	Phytate degradation, myo-inositol release, and utilization of phosphorus and calcium by two strains of laying hens in five production periods. <i>Poultry Science</i> , 2020 , 99, 6797-6808	3.9	9
148	Tissue-Wide Gene Expression Analysis of Sodium/Phosphate Co-Transporters in Pigs. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
147	Genome-wide identification of allele-specific expression in response to <i>Streptococcus suis</i> 2 infection in two differentially susceptible pig breeds. <i>Journal of Applied Genetics</i> , 2015 , 56, 481-491	2.5	8
146	Transcriptome Responses to Dexamethasone Depending on Dose and Glucocorticoid Receptor Sensitivity in the Liver. <i>Frontiers in Genetics</i> , 2019 , 10, 559	4.5	8
145	Gene expression profiling of articular cartilage reveals functional pathways and networks of candidate genes for osteochondrosis in pigs. <i>Physiological Genomics</i> , 2013 , 45, 856-65	3.6	8
144	Detection of pig genome regions determining production traits using an information theory approach. <i>Livestock Science</i> , 2017 , 205, 31-35	1.7	8
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139	Cross-talk between energy metabolism and epigenetics during temperature stress response in C2C12 myoblasts. <i>International Journal of Hyperthermia</i> , 2019 , 36, 776-784	3.7	7
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135	Haplotype analysis of beta-actin gene for its association with sperm quality and boar fertility. <i>Journal of Animal Breeding and Genetics</i> , 2006 , 123, 384-8	2.9	7
134	Chromosomal assignments for porcine genes encoding enzymes in hepatic metabolic pathways. <i>Animal Genetics</i> , 2002 , 33, 255-63	2.5	7
133	Evaluation of genetic variation within and between different chicken lines by DNA fingerprinting. <i>Journal of Heredity</i> , 1998 , 89, 17-23	2.4	7

132	Selection signatures in two oldest Russian native cattle breeds revealed using high-density single nucleotide polymorphism analysis. <i>PLoS ONE</i> , 2020 , 15, e0242200	3.7	7
131	Porcine genome-wide gene expression in response to tetanus toxoid vaccine. <i>Developments in Biologicals</i> , 2008 , 132, 185-195		7
130	Phytate Degradation, Transcellular Mineral Transporters, and Mineral Utilization by Two Strains of Laying Hens as Affected by Dietary Phosphorus and Calcium. <i>Animals</i> , 2020 , 10,	3.1	7
129	Genetic diversity and population structure of domestic and wild reindeer (<i>Rangifer tarandus</i> L. 1758): A novel approach using BovineHD BeadChip. <i>PLoS ONE</i> , 2018 , 13, e0207944	3.7	7
128	PSVI-23 Genetic characteristics and differentiation of four valid subspecies of snow sheep (<i>Ovis nivicola</i>) based on SNP analysis.. <i>Journal of Animal Science</i> , 2018 , 96, 462-462	0.7	7
127	Ileal Transcriptome Profiles of Japanese Quail Divergent in Phosphorus Utilization. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
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8	PSIII-13 Genetic assessment of isolated reindeer (<i>Rangifer Tarandus</i>) population from Tuva, Russia. <i>Journal of Animal Science</i> , 2020 , 98, 238-239	0.7	
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