Gudrun A Brockmann

List of Publications by Year
in descending order

103 papers	2,488 citations	218677 26 h-index	243625 44 g-index
107 all docs	107 docs citations	107 times ranked	3005 citing authors

#	Article	IF	Citations
1	A New Standard Genetic Map for the Laboratory Mouse. Genetics, 2009, 182, 1335-1344.	2.9	202
2	Using mouse models to dissect the genetics of obesity. Trends in Genetics, 2002, 18, 367-376.	6.7	152
3	Quantitative Trait Loci Mapping of Functional Traits in the German Holstein Cattle Population. Journal of Dairy Science, 2003, 86, 360-368.	3.4	127
4	Single QTL Effects, Epistasis, and Pleiotropy Account for Two-thirds of the Phenotypic F2 Variance of Growth and Obesity in DU6i x DBA/2 Mice. Genome Research, 2000, 10, 1941-1957.	5.5	123
5	Quantitative Trait Loci Affecting Body Weight and Fatness From a Mouse Line Selected for Extreme High Growth. Genetics, 1998, 150, 369-381.	2.9	113
6	High-fat diet leads to a decreased methylation of theMc4r gene in the obese BFMI and the lean B6 mouse lines. Journal of Applied Genetics, 2010, 51, 193-197.	1.9	98
7	Go with the flowÃ¢â,¬â€biology and genetics of the lactation cycle. Frontiers in Genetics, 2015, 6, 118.	2.3	81
8	Combined analysis of data from two granddaughter designs: A simple strategy for QTL confirmation and increasing experimental power in dairy cattle. Genetics Selection Evolution, 2003, 35, 319-38.	3.0	71
9	Content and Performance of the MiniMUGA Genotyping Array: A New Tool To Improve Rigor and Reproducibility in Mouse Research. Genetics, 2020, 216, 905-930.	2.9	58
10	Feeding of the probiotic bacterium Enterococcus faecium NCIMB 10415 differentially affects shedding of enteric viruses in pigs. Veterinary Research, 2012, 43, 58.	3.0	57
11	ATR-FTIR spectroscopy reveals genomic loci regulating the tissue response in high fat diet fed BXD recombinant inbred mouse strains. BMC Genomics, 2013, 14, 386.	2.8	47
12	Single nucleotide polymorphism and haplotype effects associated with somatic cell score in German Holstein cattle. Genetics Selection Evolution, 2014, 46, 35.	3.0	43
13	Whole genome population genetics analysis of Sudanese goats identifies regions harboring genes associated with major traits. BMC Genetics, 2017, 18, 92.	2.7	42
14	High-fat diet leads to tissue-specific changes reflecting risk factors for diseases in DBA/2J mice. Physiological Genomics, 2010, 42, 55-66.	2.3	41
15	Simultaneous mapping of epistatic QTL in DU6i Ã— DBA/2 mice. Mammalian Genome, 2005, 16, 481-494.	2.2	36
16	Genomeâ€wide associations for investigating timeâ€dependent genetic effects for milk production traits in dairy cattle. Animal Genetics, 2012, 43, 375-382.	1.7	36
17	Enterococcus faecium NCIMB 10415 supplementation affects intestinal immune-associated gene expression in post-weaning piglets. Veterinary Immunology and Immunopathology, 2014, 157, 65-77.	1.2	35
18	Finding the Optimal Imputation Strategy for Small Cattle Populations. Frontiers in Genetics, 2019, 10, 52.	2.3	35

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19	No Beneficial Effects Evident for Enterococcus faecium NCIMB 10415 in Weaned Pigs Infected with Salmonella enterica Serovar Typhimurium DT104. Applied and Environmental Microbiology, 2012, 78, 4816-4825.	3.1	34
20	QTLs for pre- and postweaning body weight and body composition in selected mice. Mammalian Genome, 2004, 15, 593-609.	2.2	33
21	Genetic, sex, and diet effects on body weight and obesity in the Berlin Fat Mouse Inbred lines. Physiological Genomics, 2006, 27, 264-270.	2.3	33
22	Genetic determinants for intramuscular fat content and water-holding capacity in mice selected for high muscle mass. Mammalian Genome, 2011, 22, 530-543.	2.2	32
23	The F279Y polymorphism of the GHR gene and its relation to milk production and somatic cell score in German Holstein dairy cattle. Journal of Applied Genetics, 2011, 52, 459-465.	1.9	32
24	Quantitative trait loci segregating in crosses between New Hampshire and White Leghorn chicken lines: I. egg production traits. Animal Genetics, 2012, 43, 183-189.	1.7	29
25	Quantitative trait loci segregating in crosses between <scp>N</scp>ew <scp>H</scp>ampshire and <scp>W</scp>hite <scp>L</scp>eghorn chicken lines: III. Fat deposition and intramuscular fat content. Animal Genetics, 2013, 44, 62-68.	1.7	27
26	Quantitative trait loci segregating in crosses between New Hampshire and White Leghorn chicken lines: IV. Growth performance. Animal Genetics, 2015, 46, 441-446.	1.7	27
27	Feeding of Enterococcus faecium NCIMB 10415 Leads to Intestinal miRNA-423-5p-Induced Regulation of Immune-Relevant Genes. Applied and Environmental Microbiology, 2016, 82, 2263-2269.	3.1	27
28	Quantitative trait loci segregating in crosses between <scp>N</scp>ew <scp>H</scp>ampshire and <scp>W</scp>hite <scp>L</scp>eghorn chicken lines: <scp>II</scp>. Muscle weight and carcass composition. Animal Genetics, 2012, 43, 739-745.	1.7	25
29	A unique genetic defect on chromosome 3 is responsible for juvenile obesity in the Berlin Fat Mouse. International Journal of Obesity, 2010, 34, 1706-1714.	3.4	24
30	Impact of Variation at the FTO Locus on Milk Fat Yield in Holstein Dairy Cattle. PLoS ONE, 2013, 8, e63406.	2.5	23
31	Fat storage capacity in growth-selected and control mouse lines is associated with line-specific gene expression and plasma hormone levels. International Journal of Obesity, 1999, 23, 586-594.	3.4	21
32	Genetic factors contributing to obesity and body weight can act through mechanisms affecting muscle weight, fat weight, or both. Physiological Genomics, 2009, 36, 114-126.	2.3	21
33	Changes in metabolite profiles caused by genetically determined obesity in mice. Metabolomics, 2014, 10, 461-472.	3.0	20
34	Short communication: Validation of somatic cell scoreâ€“associated loci identified in a genome-wide association study in German Holstein cattle. Journal of Dairy Science, 2014, 97, 2481-2486.	3.4	20
35	RandoMate: a program for the generation of random mating schemes for small laboratory animals. Mammalian Genome, 2009, 20, 321-325.	2.2	19
36	High Energy Digestion Efficiency and Altered Lipid Metabolism Contribute to Obesity in BFMI Mice. Obesity, 2009, 17, 1988-1993.	3.0	19

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37	No Protective Effects of High-Dosage Dietary Zinc Oxide on Weaned Pigs Infected with Salmonella enterica Serovar Typhimurium DT104. Applied and Environmental Microbiology, 2013, 79, 2914-2921.	3.1	19
38	Fine mapping of a distal chromosome 4 <scp>QTL</scp> affecting growth and muscle mass in a chicken advanced intercross line. Animal Genetics, 2017, 48, 295-302.	1.7	19
39	DNA Sequence Variants and Protein Haplotypes of Casein Genes in German Black Pied Cattle (DSN). Frontiers in Genetics, 2019, 10, 1129.	2.3	19
40	Chromosome-Wise Dissection of the Genome of the Extremely Big Mouse Line DU6i. Genetics, 2006, 172, 401-410.	2.9	17
41	Multiple-trait QTL mapping for body and organ weights in a cross between NMRI8 and DBA/2 mice. Genetical Research, 2007, 89, 47-59.	0.9	17
42	New fast and cost-effective gene test to get the ETEC F18 receptor status in pigs. Veterinary Microbiology, 2013, 163, 392-394.	1.9	17
43	A new single nucleotide polymorphism in the rabbit (<i>Oryctolagus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (cuniculus</ Animal Genetics, 2014, 45, 596-599.	1.7	17
44	Fine mapping a major obesity locus (jObes1) using a Berlin Fat Mouse Ã— B6N advanced intercross population. International Journal of Obesity, 2016, 40, 1784-1788.	3.4	17
45	Milk protein polymorphisms and casein haplotypes in Butana cattle. Journal of Applied Genetics, 2017, 58, 261-271.	1.9	17
46	Genome-wide associations and functional gene analyses for endoparasite resistance in an endangered population of native German Black Pied cattle. BMC Genomics, 2019, 20, 277.	2.8	17
47	Gene test to elucidate the ETEC F4ab/F4ac receptor status in pigs. Veterinary Microbiology, 2013, 162, 293-295.	1.9	16
48	Features of the Metabolic Syndrome in the Berlin Fat Mouse as a Model for Human Obesity. Obesity Facts, 2011, 4, 2-2.	3.4	15
49	Genome-wide search for loci controlling serum IGF binding protein levels of mice. FASEB Journal, 2001, 15, 978-987.	0.5	14
50	Green tea reduces body fat via upregulation of neprilysin. International Journal of Obesity, 2016, 40, 1850-1855.	3.4	14
51	A genome-wide association study for clinical mastitis in the dual-purpose German Black Pied cattle breed. Journal of Dairy Science, 2020, 103, 10289-10298.	3.4	14
52	Genomic Loci Affecting Milk Production in German Black Pied Cattle (DSN). Frontiers in Genetics, 2021, 12, 640039.	2.3	14
53	BDNF Contributes to the Genetic Variance of Milk Fat Yield in German Holstein Cattle. Frontiers in Genetics, 2011, 2, 16.	2.3	13
54	Genetic diversity of Syrian Arabian horses. Animal Genetics, 2017, 48, 486-489.	1.7	13

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55	Genetic and diet effects on Ppar-Î± and Ppar-Î³ signaling pathways in the Berlin Fat Mouse Inbred line with genetic predisposition for obesity. Lipids in Health and Disease, 2010, 9, 99.	3.0	12
56	Effect of the myostatin locus on muscle mass and intramuscular fat content in a cross between mouse lines selected for hypermuscularity. BMC Genomics, 2013, 14, 16.	2.8	12
57	Characterization of CD4+ subpopulations and CD25+ cells in ileal lymphatic tissue of weaned piglets infected with Salmonella Typhimurium with or without Enterococus faecium feeding. Veterinary Immunology and Immunopathology, 2014, 158, 143-155.	1.2	12
58	The Zinc Concentration in the Diet and the Length of the Feeding Period Affect the Methylation Status of the ZIP4 Zinc Transporter Gene in Piglets. PLoS ONE, 2015, 10, e0143098.	2.5	12
59	Effect of feeding different levels of lignocellulose on performance, nutrient digestibility, excreta dry matter, and intestinal microbiota in slow growing broilers. Poultry Science, 2020, 99, 5018-5026.	3.4	12
60	Y-Chromosomal Insights into Breeding History and Sire Line Genealogies of Arabian Horses. Genes, 2022, 13, 229.	2.4	12
61	Differentially expressed genes in adipose tissues of high body weight-selected (obese) and unselected (lean) mouse lines. Journal of Applied Genetics, 2007, 48, 133-143.	1.9	11
62	Validating genomeâ€wide associated signals for clinical mastitis in German Holstein cattle. Animal Genetics, 2018, 49, 82-85.	1.7	11
63	Genomeâ€wide association study of body morphological traits in Sudanese goats. Animal Genetics, 2018, 49, 478-482.	1.7	11
64	Phenotypic characterization of chicken inbred lines that differ extremely in growth, body composition and egg production traits. Archives Animal Breeding, 2010, 53, 337-349.	1.4	11
65	The age of attaining highest body weight correlates with lifespan in a genetically obese mouse model. Nutrition and Diabetes, 2013, 3, e62-e62.	3.2	10
66	Equivalent Indels â€" Ambiguous Functional Classes and Redundancy in Databases. PLoS ONE, 2013, 8, e62803.	2.5	10
67	Feeding a high dosage of zinc oxide affects suppressor of cytokine gene expression in Salmonella Typhimurium infected piglets. Veterinary Immunology and Immunopathology, 2016, 178, 10-13.	1.2	10
68	Diversity of mitochondrial DNA in three Arabian horse strains. Journal of Applied Genetics, 2017, 58, 273-276.	1.9	10
69	Sex-specific genetic architecture in response to American and ketogenic diets. International Journal of Obesity, 2021, 45, 1284-1297.	3.4	10
70	Genome-Wide Association Study Using Whole-Genome Sequence Data for Fertility, Health Indicator, and Endoparasite Infection Traits in German Black Pied Cattle. Genes, 2021, 12, 1163.	2.4	10
71	Genomic imprinting and genetic effects on muscle traits in mice. BMC Genomics, 2012, 13, 408.	2.8	9
72	A comprehensive linkage map and QTL map for carcass traits in a cross between Giant Grey and New Zealand White rabbits. BMC Genetics, 2015, 16, 16.	2.7	9

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73	Design and performance of a bovine 200â€‰k SNP chip developed for endangered German Black Pied cattle (DSN). BMC Genomics, 2021, 22, 905.	2.8	9
74	Tracking chromosomal positions of oligomers - a case study with Illumina's BovineSNP50 beadchip. BMC Genomics, 2010, 11, 80.	2.8	8
75	Heritability of metabolic response to the intravenous glucose tolerance test in German Holstein Friesian bulls. Journal of Dairy Science, 2016, 99, 7240-7246.	3.4	8
76	High dosage of zinc modulates T-cells in a time-dependent manner within porcine gut-associated lymphatic tissue. British Journal of Nutrition, 2018, 120, 1349-1358.	2.3	8
77	Effect of adipocyte-derived IGF-I on adipose tissue mass and glucose metabolism in the Berlin Fat Mouse. Growth Factors, 2018, 36, 78-88.	1.7	8
78	Identification of four novel QTL linked to the metabolic syndrome in the Berlin Fat Mouse. International Journal of Obesity, 2022, 46, 307-315.	3.4	8
79	High Variability of Insulin Sensitivity in Closely Related Obese Mouse Inbred Strains. Experimental and Clinical Endocrinology and Diabetes, 2016, 124, 519-528.	1.2	7
80	Genetic control of lipids in the mouse cross DU6i Ã— DBA/2. Mammalian Genome, 2007, 18, 757-766.	2.2	6
81	IGF-I contributes to glucose homeostasis in the Berlin Fat Mouse Inbred line. Growth Factors, 2011, 29, 298-309.	1.7	6
82	The direction of cross affects obesity after puberty in male but not female offspring. BMC Genomics, 2015, 16, 904.	2.8	6
83	Reducing the interval of a growth <scp>QTL</scp> on chromosome 4 in laying hens. Animal Genetics, 2018, 49, 467-471.	1.7	5
84	Identification of Novel Potential Type 2 Diabetes Genes Mediating Î²-Cell Loss and Hyperglycemia Using Positional Cloning. Frontiers in Genetics, 2020, 11, 567191.	2.3	5
85	Capture Sequencing to Explore and Map Rare Casein Variants in Goats. Frontiers in Genetics, 2021, 12, 620253.	2.3	5
86	Transmission distortion and genetic incompatibilities between alleles in a multigenerational mouse advanced intercross line. Genetics, 2022, 220, .	2.9	5
87	Mapping of the bovine blood group systems J, Nâ€², Râ€², and Z show evidence for oligo-genetic inheritance. Animal Genetics, 2002, 33, 107-117.	1.7	4
88	Crossâ€talk Between Host, Microbiome and Probiotics: A Systems Biology Approach for Analyzing the Effects of Probiotic <i>Enterococcus faecium</i> NCIMB 10415 in Piglets. Molecular Informatics, 2014, 33, 171-182.	2.5	4
89	A deletion containing a CTCF-element in intron 8 of the Bbs7 gene is partially responsible for juvenile obesity in the Berlin Fat Mouse. Mammalian Genome, 2022, 33, 465-470.	2.2	4
90	Fine Mapping of Mouse QTLs for Fatness Using SNP Data. OMICS A Journal of Integrative Biology, 2007, 11, 341-350.	2.0	3

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91	Genetic diversity of Nubian ibex in comparison to other ibex and domesticated goat species. European Journal of Wildlife Research, 2018, 64, 1.	1.4	3
92	Whey protein polymorphisms in Sudanese goat breeds. Tropical Animal Health and Production, 2020, 52, 1211-1222.	1.4	3
93	Correlation Trait Loci (CTL) mapping: phenotype network inference subject to genotype. Journal of Open Source Software, 2016, 1, 87.	4.6	3
94	Effects of DGAT1 on milk performance in Sudanese Butanaâ€‰Ã—â€‰Holstein crossbred cattle. Tropical Animal Health and Production, 2022, 54, 142.	1.4	3
95	Chicken Immune Cell Assay to Model Adaptive Immune Responses In Vitro. Animals, 2021, 11, 3600.	2.3	3
96	QTL-mapping in the obese Berlin Fat Mouse identifies additional candidate genes for obesity and fatty liver disease. Scientific Reports, 2022, 12, .	3.3	3
97	Relationship between obesity phenotypes and genetic determinants in a mouse model for juvenile obesity. Physiological Genomics, 2013, 45, 817-826.	2.3	2
98	Positional Cloning of Diabetes Genes. Methods in Molecular Biology, 2012, 933, 275-289.	0.9	2
99	INBREEDING AND CROSSBREEDING. , 2005, , 57-83.		2
100	Invited review: Genetic and genomic mouse models for livestock research. Archives Animal Breeding, 2018, 61, 87-98.	1.4	2
101	P5035 Fine mapping of a distal chromosome 4 QTL affecting growth and muscle mass in a chicken advanced intercross line. Journal of Animal Science, 2016, 94, 132-133.	0.5	1
102	Systems Genetics of Obesity. Methods in Molecular Biology, 2017, 1488, 481-497.	0.9	1
103	Validation of somatic cell score-associated SNPs from Holstein cattle in Sudanese Butana and Butanaâ€‰Ã—â€‰Holstein crossbred cattle. Tropical Animal Health and Production, 2022, 54, 50.	1.4	1